LAMPIRAN

Lampiran 1 Surat Ijin Melaksanakan Observasi



F-TI01

Formulir Permohonan Surat Pengantar Permintaan Data

Saya, yang bertanda tangan di bawah ini:

Nama	:	Ketut Gitahadi Merta
NIM	:	2215051063
Semester	:	6 (Enam)
Program Studi	:	TRPL / PTI / SI / Ilkom (coret yang tidak perlu)
No.Telp/HP	:	081238107952
Kegiatan	:	Skripsi / Lomba / Lainnya:
Dosen pembimbing	:	Ir. Gede Arna Jude Saskara, S.T.,M.T
Nama lomba/kegiatan	:	Penelitian Skripsi
Judul skripsi/giat/lomba	:	Pengembangan Aplikasi Web Monitoring MikroTik Terintegrasi dengan Sistem Manajemen Pelanggan PPPoE untuk Jaringan Internet RT/RW Net (Studi Kasus : Starmedia Dewata)

Mengajukan permohonan untuk dibuatkan Surat Pengantar Permintaan Data kepada instansi/lembaga/perusahaan

Instansi/lembaga	:	Starmedia Dewata
Pejabat tujuan	:	Pemilik Starmedia Dewata
Data yang diperlukan	:	• Mekanisme penambahan pelanggan baru • Mekanisme pembayaran pelanggan • Mekanisme perpanjangan masa aktif pelanggan • Mekanisme pelanggan telat bayar

Demikian permohonan ini saya ajukan, atas perhatian dan bantuannya saya ucapkan terima kasih.

Singaraja, 26 Februari 2024

Menyetujui,
Dosen Pembimbing

Ir. Gede Arna Jude Saskara, S.T.,M.T
NIP.199105152020121003

Hormat saya,

Ketut Gitahadi Merta
NIM.2215051063

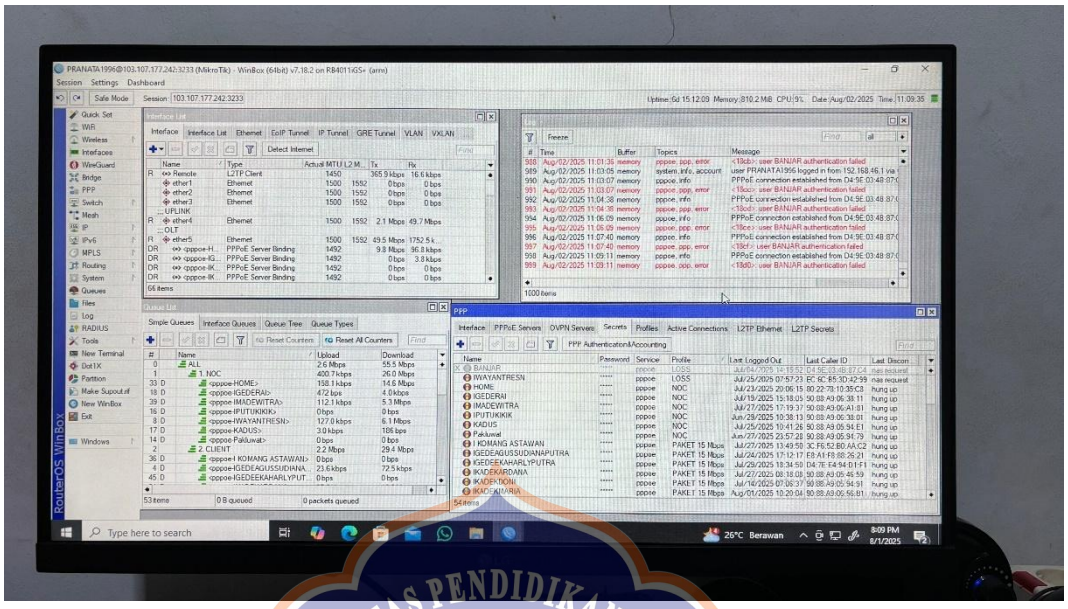
Balai Sertifikasi Elektronik

Catatan :
- UU ITE No. 11 Tahun 2008 Pasal 5 ayat 1"Informasi Elektronik dan/atau Dokumen Elektornik dan/atau hasil cetaknya merupakan alat bukti hukum yang sah"
- Dokumen ini tertanda ditandatangani secara elektronik menggunakan sertifikat elektronik yang diterbitkan BsrE
- Surat ini dapat dibuktikan keasliannya dengan menggunakan *qr code* yang telah tersedia

Lampiran 2 Dokumentasi Wawancara



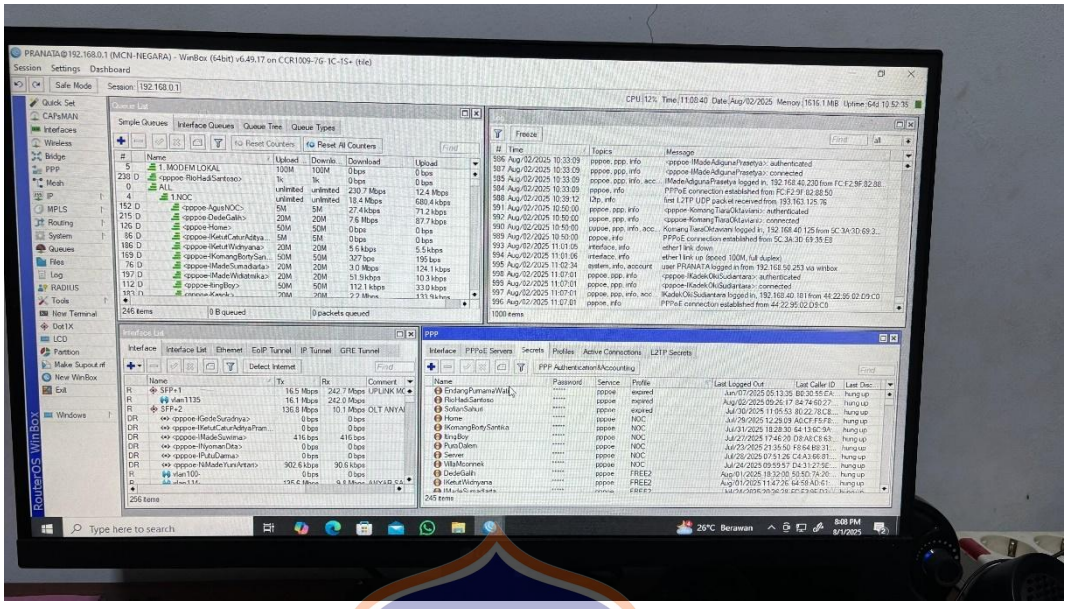
Lampiran 3 Dokumentasi Observasi



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Lampiran 4 RouterSevice.php

```php
<?php

namespace App\Services;

use App\Models\Router;
use App\Models\IpPool;
use App\Models\Plan;
use RouterOS\Client;
use RouterOS\Query;
use Illuminate\Support\Facades\Log;

class RouterServices
{

    public function connect(Router $router): Client
    {
        return new Client([
            'host'    => $router->ip_address,
            'user'    => $router->username,
            'pass'    => $router->password,
            'port'    => 8728,
            'timeout' => 5,
        ]);
    }

    private function executeQuery(
        Client $client,
        Query  $query,
        string $action = 'MikroTik query',
    ): array {
        $response = $client->query($query)->read();

        $hasTrap = isset($response[0]['!trap']) ||
isset($response['!trap']);

        if ($hasTrap) {
            $message = $response[0]['message']
                ?? $response['message']
                ?? 'Unknown MikroTik error';

            throw new \RuntimeException("[$action]
MikroTik trap: $message");
        }

        return $response;
    }
```

```
    public function list(array $filters = []):
\Illuminate\Pagination\LengthAwarePaginator
    {
        return Router::query()
            ->when(
                !empty($filters['search']),
                fn($q) => $q->where('name', 'like',
"%{$filters['search']}%")
                                ->orWhere('ip_address',
'like', "%{$filters['search']}%")
            )
            ->paginate($filters['per_page'] ?? 10);
    }

    public function createAndTest(array $data): ?Router
    {
        $router = Router::create($data);

        try {
            $client = $this->connect($router);

            $result = $this->executeQuery(
                $client,
                new Query('/system/identity/print'),
                "Test Connection [{$router-
>ip_address}]",
            );

            if (!empty($result)) {
                $router->update([
                    'status'    => 'online',
                    'last_seen' => now(),
                ]);
            }

        } catch (\Throwable $e) {
            Log::error("Router connection failed during
create", [
                'router' => $router->ip_address,
                'error'  => $e->getMessage(),
            ]);

            $router->update(['status' => 'offline']);
        }
```

```
        return $router;
    }


    public function update(Router $router, array
$data): Router
{
    if (empty($data['password'])) {
        unset($data['password']);
    }

    $router->update($data);

    try {

        $client = $this->connect($router);

        $result = $this->executeQuery(
            $client,
            new Query('/system/identity/print'),
            "Test Connection Update [{$router-
>ip_address}]",
        );

        if (!empty($result)) {
            $router->update([
                'status'    => 'online',
                'last_seen' => now(),
            ]);
        }

    } catch (\Throwable $e) {
        Log::error("Router update connection failed", [
            'router' => $router->ip_address,
            'error'  => $e->getMessage(),
        ]);

        $router->update([
            'status' => 'offline'
        ]);
    }

    return $router->fresh();
}

public function delete(Router $router): void
{
```

```
    try {
        $router->delete();

    } catch (\Throwable $e) {
        Log::error("Failed to delete router", [
            'router_id' => $router->id,
            'error'     => $e->getMessage(),
        ]);
    }
}
    public function testRouterConnection(Router
$router): array
    {
        try {
            $client = $this->connect($router);

            $result = $this->executeQuery(
                $client,
                new Query('/system/identity/print'),
                "Test Router Connection [{$router-
>ip_address}]",
            );

            if (!empty($result)) {
                $router->update([
                    'status'    => 'online',
                    'last_seen' => now(),
                ]);

                return [
                    'success' => true,
                    'message' => "Router {$router-
>name} is online.",
                    'router'  => $router,
                ];
            }

        } catch (\Throwable $e) {
            Log::error("Router connection failed", [
                'router' => $router->ip_address,
                'error'  => $e->getMessage(),
            ]);
        }

        $router->update(['status' => 'offline']);

        return [
```

```
            'success' => false,
            'message' => "Router {$router->name} is not
reachable.",
            'router'  => $router,
        ];
    }

    public function testTempConnection(
        string $ip,
        string $username,
        string $password
    ): array {
        try {
            $client = new Client([
                'host'    => $ip,
                'user'    => $username,
                'pass'    => $password,
                'port'    => 8728,
                'timeout' => 3,
            ]);

            $result = $this->executeQuery(
                $client,
                new Query('/system/identity/print'),
                "Test Temp Connection [$ip]",
            );

            if (!empty($result)) {
                return [
                    'success'  => true,
                    'message'  => "Router reachable!",
                    'identity' => $result[0]['name'] ??
'Unknown',
                ];
            }

            return [
                'success' => false,
                'message' => "Router did not respond.",
            ];

        } catch (\Throwable $e) {
            Log::warning("Temp router connection
failed", [
                'ip'    => $ip,
                'error' => $e->getMessage(),
            ]);
```

```
            return [
                'success' => false,
                'message' => "Connection failed: " .
$e->getMessage(),
            ];
        }
    }

    public function createIpPool(IpPool $ipPool): void
    {
        $router = Router::find($ipPool->router_id);

        if (!$router) {
            throw new \RuntimeException("Router not
found: ID {$ipPool->router_id}");
        }

        $client   = $this->connect($router);
        $poolName = $ipPool->pool_name;
        $range    = $ipPool->range_ip;

        $existing = $this->executeQuery(
            $client,
            (new Query('/ip/pool/print'))-
>where('name', $poolName),
            "Check IP Pool [$poolName]",
        );

        if (!empty($existing)) {
            Log::warning("MikroTik pool already exists,
skipping", [
                'pool'   => $poolName,
                'router' => $router->ip_address,
            ]);
            return;
        }

        $this->executeQuery(
            $client,
            (new Query('/ip/pool/add'))
                ->equal('name', $poolName)
                ->equal('ranges', $range),
            "Create IP Pool [$poolName]",
        );

        Log::info("IP Pool created on MikroTik", [
```

```
            'pool'   => $poolName,
            'ranges' => $range,
            'router' => $router->ip_address,
        ]);
    }

    public function updateIpPool(Router $router, string
$oldName, array $data): void
    {
        $client = $this->connect($router);

        $result = $this->executeQuery(
            $client,
            (new Query('/ip/pool/print'))-
>where('name', $oldName),
            "Find IP Pool [$oldName]",
        );

        if (empty($result)) {
            throw new \RuntimeException("IP Pool not
found on MikroTik: [$oldName]");
        }

        $poolId = $result[0]['.id'];

        if (!empty($data['pool_name']) &&
$data['pool_name'] !== $oldName) {

            $exists = $this->executeQuery(
                $client,
                (new Query('/ip/pool/print'))-
>where('name', $data['pool_name']),
                "Check IP Pool name conflict
[{$data['pool_name']}]",
            );

            if (!empty($exists)) {
                throw new \RuntimeException("IP Pool
name already exists: [{$data['pool_name']}]");
            }

            $this->executeQuery(
                $client,
                (new Query('/ip/pool/set'))
                    ->equal('.id', $poolId)
                    ->equal('name',
$data['pool_name']),
```

```
                "Rename IP Pool [$oldName] →
[{$data['pool_name']}]",
            );
        }

        if (!empty($data['range_ip'])) {
            $this->executeQuery(
                $client,
                (new Query('/ip/pool/set'))
                    ->equal('.id', $poolId)
                    ->equal('ranges',
$data['range_ip']),
                "Update IP Pool range [$oldName]",
            );
        }
    }

    public function deleteIpPool(Router $router, string
$poolName): void
    {
        $client = $this->connect($router);

        $result = $this->executeQuery(
            $client,
            (new Query('/ip/pool/print'))-
>where('name', $poolName),
            "Find IP Pool [$poolName]",
        );

        if (empty($result)) {
            Log::warning("IP Pool not found on
MikroTik, skip delete", [
                'pool'   => $poolName,
                'router' => $router->name,
            ]);
            return;
        }

        $this->executeQuery(
            $client,
            (new Query('/ip/pool/remove'))-
>equal('.id', $result[0]['.id']),
            "Delete IP Pool [$poolName]",
        );

        Log::info("IP Pool removed from MikroTik", [
            'pool'   => $poolName,
```

```
            'router' => $router->name,
        ]);
    }
    public function ensurePlanProfile(Router $router,
Plan $plan, string $rateLimit): void
    {
        $this->ensurePppProfileExists($router, $plan,
$rateLimit);
    }

    public function ensurePppProfileExists(Router
$router, Plan $plan, string $rateLimit): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $profileName = $plan->profile_name;

        $exists = $this->executeQuery(
            $client,
            (new Query('/ppp/profile/print'))-
>where('name', $profileName),
            "Check PPP Profile [$profileName]",
        );

        if (!empty($exists)) {
            return;
        }

        $query = (new Query('/ppp/profile/add'))
            ->equal('name', $profileName)
            ->equal('rate-limit', $rateLimit);

        if ($plan->local_address_type === 'ip' &&
$plan->local_address_value) {
            $query->equal('local-address', $plan-
>local_address_value);
        } elseif ($plan->local_address_type === 'pool'
&& $plan->local_address_value) {
            $pool = IpPool::where('id', $plan-
>local_address_value)
```

```
                ->orWhere('pool_name', $plan-
>local_address_value)
                ->first();
            if ($pool) {
                $query->equal('local-address', $pool-
>pool_name);
            }
        }

        if ($plan->remote_address_type === 'ip' &&
$plan->remote_address_value) {
            $query->equal('remote-address', $plan-
>remote_address_value);
        } elseif ($plan->remote_address_type === 'pool'
&& $plan->remote_address_value) {
            $pool = IpPool::where('id', $plan-
>remote_address_value)
                ->orWhere('pool_name', $plan-
>remote_address_value)
                ->first();
            if ($pool) {
                $query->equal('remote-address', $pool-
>pool_name);
            }
        }

        $query->equal(
            'only-one',
            in_array($plan->only_one, ['yes', 'no',
'default'])
                ? $plan->only_one
                : 'default'
        );

        $this->executeQuery($client, $query, "Create
PPP Profile [$profileName]");

        Log::info("PPP Profile created on MikroTik", [
            'profile' => $profileName,
            'router'  => $router->ip_address,
        ]);
    }

    public function updatePppProfile(Router $router,
string $oldName, array $data): void
    {
        try {
```

```
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/profile/print'))-
>where('name', $oldName),
            "Find PPP Profile [$oldName]",
        );

        if (empty($result)) {
            throw new \RuntimeException("PPP Profile
not found on MikroTik: [$oldName]");
        }

        $profileId = $result[0]['.id'];

        if (!empty($data['profile_name']) &&
$data['profile_name'] !== $oldName) {

            $exists = $this->executeQuery(
                $client,
                (new Query('/ppp/profile/print'))-
>where('name', $data['profile_name']),
                "Check PPP Profile name conflict
[{$data['profile_name']}]",
            );

            if (!empty($exists)) {
                throw new \RuntimeException("PPP
Profile name already exists:
[{$data['profile_name']}]");
            }

            $this->executeQuery(
                $client,
                (new Query('/ppp/profile/set'))
                    ->equal('.id', $profileId)
                    ->equal('name',
$data['profile_name']),
                "Rename PPP Profile [$oldName] →
[{$data['profile_name']}]",
```

```
            );
        }

        if (!empty($data['rate_limit'])) {
            $this->executeQuery(
                $client,
                (new Query('/ppp/profile/set'))
                    ->equal('.id', $profileId)
                    ->equal('rate-limit',
$data['rate_limit']),
                "Update rate-limit PPP Profile
[$oldName]",
            );
        }

        if ($data['local_address_type'] === 'ip') {
    $this->executeQuery(
        $client,
        (new Query('/ppp/profile/set'))
            ->equal('.id', $profileId)
            ->equal('local-address',
$data['local_address_value'] ?? ''),
        "Update local-address PPP Profile [$oldName]",
    );
} elseif ($data['local_address_type'] === 'pool') {
    $pool = IpPool::where('id',
$data['local_address_value'])
        ->orWhere('pool_name',
$data['local_address_value'])
        ->first();

    if (!$pool) {
        throw new \RuntimeException("Local IP Pool not
found: [{$data['local_address_value']}]");
    }
    $this->executeQuery(
        $client,
        (new Query('/ppp/profile/set'))
            ->equal('.id', $profileId)
            ->equal('local-address', $pool->pool_name),
        "Update local-address pool PPP Profile
[$oldName]",
    );
}
if ($data['remote_address_type'] === 'ip') {
    $this->executeQuery(
        $client,
```

```
        (new Query('/ppp/profile/set'))
            ->equal('.id', $profileId)
            ->equal('remote-address',
$data['remote_address_value'] ?? ''),
        "Update remote-address PPP Profile [$oldName]",
    );
} elseif ($data['remote_address_type'] === 'pool') {
    $pool = IpPool::where('id',
$data['remote_address_value'])
        ->orWhere('pool_name',
$data['remote_address_value'])
        ->first();

    if (!$pool) {
        throw new \RuntimeException("Remote IP Pool not
found: [{$data['remote_address_value']}]");
    }
    $this->executeQuery(
        $client,
        (new Query('/ppp/profile/set'))
            ->equal('.id', $profileId)
            ->equal('remote-address', $pool-
>pool_name),
        "Update remote-address pool PPP Profile
[$oldName]",
    );
}

        $this->executeQuery(
            $client,
            (new Query('/ppp/profile/set'))
                ->equal('.id', $profileId)
                ->equal('only-one',
in_array($data['only_one'], ['yes', 'no', 'default'])
                    ? $data['only_one']
                    : 'default'),
            "Update only-one PPP Profile [$oldName]",
        );

        Log::info("PPP Profile updated on MikroTik", [
            'router' => $router->ip_address,
            'old'    => $oldName,
            'new'    => $data['profile_name'] ??
$oldName,
        ]);
    }
```

```
    public function deletePppProfile(Router $router,
string $profileName): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/profile/print'))-
>where('name', $profileName),
            "Find PPP Profile [$profileName]",
        );

        if (empty($result)) {
            Log::warning("PPP Profile not found on
MikroTik, skip delete", [
                'profile' => $profileName,
                'router'  => $router->name,
            ]);
            return;
        }

        $this->executeQuery(
            $client,
            (new Query('/ppp/profile/remove'))-
>equal('.id', $result[0]['.id']),
            "Delete PPP Profile [$profileName]",
        );

        Log::info("PPP Profile removed from MikroTik",
[
            'profile' => $profileName,
            'router'  => $router->name,
        ]);
    }


    public function createPppoeUser(Client $client,
string $username, string $password, string $profile):
void
    {
```

```
        $this->executeQuery(
            $client,
            (new Query('/ppp/secret/add'))
                ->equal('name', $username)
                ->equal('password', $password)
                ->equal('service', 'pppoe')
                ->equal('profile', $profile)
                ->equal('disabled', 'no'),
            "Create PPPoE User [$username]",
        );

        Log::info("PPPoE user created on MikroTik", [
            'username' => $username,
            'profile'  => $profile,
        ]);
    }

    public function enableOrUpdateUser(Router $router,
string $username, string $password, string $profile):
void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Find PPPoE User [$username]",
        );

        if (empty($result)) {
            $this->createPppoeUser($client, $username,
$password, $profile);
            return;
        }

        $this->executeQuery(
            $client,
            (new Query('/ppp/secret/set'))
                ->equal('.id', $result[0]['.id'])
```

```
                ->equal('disabled', 'no')
                ->equal('profile', $profile)
                ->equal('password', $password),
            "Update PPPoE User [$username]",
        );

        Log::info("PPPoE user updated + reactivated", [
            'username' => $username,
            'profile'  => $profile,
            'router'   => $router->ip_address,
        ]);
    }

    public function disableUser(Router $router, string
$username): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Find PPPoE User [$username]",
        );

        if (empty($result)) {
            throw new \RuntimeException("PPPoE user not
found: [$username]");
        }

        if ($result[0]['disabled'] === 'true') {
            Log::info("PPPoE user already disabled,
skip", [
                'username' => $username,
                'router'   => $router->ip_address,
            ]);
            return;
        }

        $this->executeQuery(
```

```
            $client,
            (new Query('/ppp/secret/set'))
                ->equal('.id', $result[0]['.id'])
                ->equal('disabled', 'yes'),
            "Disable PPPoE User [$username]",
        );

        Log::info("PPPoE user disabled", [
            'username' => $username,
            'router'   => $router->ip_address,
        ]);
    }

    public function updatePppPassword(Router $router,
string $username, string $password): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Find PPPoE User [$username]",
        );

        if (empty($result)) {
            throw new \RuntimeException("PPPoE user not
found: [$username]");
        }

        $this->executeQuery(
            $client,
            (new Query('/ppp/secret/set'))
                ->equal('.id', $result[0]['.id'])
                ->equal('password', $password),
            "Update PPPoE Password [$username]",
        );

        Log::info("PPPoE password updated", [
            'username' => $username,
```

```
            'router'   => $router->ip_address,
        ]);
    }

    public function updateUserProfile(Router $router,
string $username, string $newProfile): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Find PPPoE User [$username]",
        );

        if (empty($result)) {
            throw new \RuntimeException("PPPoE user not
found: [$username]");
        }

        $this->executeQuery(
            $client,
            (new Query('/ppp/secret/set'))
                ->equal('.id', $result[0]['.id'])
                ->equal('profile', $newProfile),
            "Update PPPoE Profile [$username] →
[$newProfile]",
        );

        Log::info("PPPoE user profile updated", [
            'username' => $username,
            'profile'  => $newProfile,
            'router'   => $router->ip_address,
        ]);
    }

    public function pppoeUserExists(Router $router,
string $username): bool
    {
```

```
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Check PPPoE User Exists [$username]",
        );

        Log::info("Checking PPPoE user existence", [
            'username' => $username,
            'found'    => !empty($result),
        ]);

        return !empty($result);
    }

    public function deletePppoeUser(Router $router,
string $username): void
{
    try {
        $client = $this->connect($router);
    } catch (\Throwable $e) {
        throw new \RuntimeException(
            "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
        );
    }

    $result = $this->executeQuery(
        $client,
        (new Query('/ppp/secret/print'))->where('name',
$username),
        "Find PPPoE User [$username]",
    );

    if (empty($result)) {
        Log::warning("PPPoE user not found on MikroTik,
skip delete", [
            'username' => $username,
```

```
            'router'   => $router->name,
        ]);
        return;
    }

    $this->executeQuery(
        $client,
        (new Query('/ppp/secret/remove'))->equal('.id',
$result[0]['.id']),
        "Delete PPPoE User [$username]",
    );

    Log::info("PPPoE user removed from MikroTik", [
        'username' => $username,
        'router' => $router->ip_address,
    ]);
}


    public function disconnectActiveSession(Router
$router, string $username): void
    {
        try {
            $client = $this->connect($router);
        } catch (\Throwable $e) {
            throw new \RuntimeException(
                "Gagal koneksi ke router [{$router-
>ip_address}]: " . $e->getMessage()
            );
        }

        $activeUsers = $this->executeQuery(
            $client,
            (new Query('/ppp/active/print'))-
>where('name', $username),
            "Check Active PPPoE Session [$username]",
        );

        if (empty($activeUsers)) {
            Log::info("No active PPPoE session found,
skip disconnect", [
                'username' => $username,
                'router'   => $router->ip_address,
            ]);
            return;
        }
```

```
        foreach ($activeUsers as $user) {
            if (!isset($user['.id'])) {
                continue;
            }

            $this->executeQuery(
                $client,
                (new Query('/ppp/active/remove'))-
>equal('.id', $user['.id']),
                "Disconnect PPPoE Session [$username]",
            );
        }

        Log::info("PPPoE session disconnected", [
            'username' => $username,
            'router'   => $router->ip_address,
        ]);
    }

    public function findSecret(Client $client, string
$username): ?array
    {
        $result = $this->executeQuery(
            $client,
            (new Query('/ppp/secret/print'))-
>where('name', $username),
            "Find PPPoE Secret [$username]",
        );

        return $result[0] ?? null;
    }
}
```

Lampiran 5 Uji *Blackbox*

UJI *BLACK BOX*

APLIKASI WEB *NETWORK AUTOMATION* MANAJEMEN PELANGGAN PPPOE MENGGUNAKAN MIKROTIK PADA JARINGAN RT/RW NET (STUDI KASUS: MCONNEK)

Nama Penguji : Ketut Gitahadi Merta (Peneliti)

Tanggal Pengujian : 11 Agustus 2016

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
1	Uji Registrasi	Pengguna melakukan registrasi pertama kali dengan data lengkap	Sistem berhasil melakukan registrasi dan mengarahkan pengguna ke halaman beranda.	Sistem berhasil melakukan registrasi dan mengarahkan pengguna ke halaman beranda.	Valid
2	Uji Registrasi	Pengguna melakukan registrasi dengan data tidak lengkap	Sistem menolak registrasi dan menampilkan peringatan.	Sistem menolak registrasi dan menampilkan peringatan karena data tidak lengkap.	Valid
3	Uji Registrasi	Pengguna mencoba melakukan registrasi kembali setelah akun berhasil terdaftar	Sistem menolak registrasi karena akun hanya dapat didaftarkan satu kali.	Sistem menolak registrasi kembali karena akun telah terdaftar.	Valid
4	Uji *Login*	*Email* dan *password* terdaftar dimasukkan dengan benar	Sistem berhasil melakukan *Login* dan menampilkan halaman beranda.	Sistem berhasil melakukan *Login* dan menampilkan halaman beranda.	Valid
5	Uji *Login*	*Email* terdaftar namun *password* salah	Sistem menolak *Login* dan menampilkan peringatan.	Sistem menolak *Login* dan menampilkan peringatan karena *password* salah.	Valid
6	Uji *Login*	*Email* dan *password* belum terdaftar	Sistem menolak *Login* dan menampilkan pesan peringatan.	Sistem menolak *Login* dan menampilkan pesan peringatan karena akun belum terdaftar.	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
7	Uji *Logout*	Pengguna menekan tombol *logout*	Sistem berhasil keluar dari sesi dan kembali ke halaman *Login*.	Sistem berhasil mengakhiri sesi dan kembali ke halaman *Login*.	Valid
8	Uji Tambah Router	IP address, *Username*, dan *password* valid	Sistem berhasil menyimpan data router dan menampilkan status *online*.	Sistem berhasil menyimpan data router dan menampilkan status *online*.	Valid
9	Uji Tambah Router	IP address, *Username*, atau *password* tidak valid	Sistem tetap menyimpan data router dan menampilkan status *offline*.	Sistem berhasil menyimpan data router dan menampilkan status *offline*.	Valid
10	Uji Tambah Router	Form input dikosongkan	Sistem menolak penyimpanan data router dan menampilkan peringatan.	Sistem menolak penyimpanan data router dan menampilkan peringatan.	Valid
11	Uji Ubah Router	IP address, *Username*, dan *password* valid	Sistem berhasil memperbarui data router dan menampilkan status *online*.	Sistem berhasil memperbarui data router dan menampilkan status *online*.	Valid
12	Uji Ubah Router	IP address, *Username*, atau *password* tidak valid	Sistem berhasil memperbarui data router dan menampilkan status *offline*.	Sistem berhasil memperbarui data router dan menampilkan status *offline*.	Valid
13	Uji Ubah Router	Form input dikosongkan	Sistem menolak perubahan data router dan menampilkan peringatan.	Sistem menolak perubahan data router dan menampilkan peringatan.	Valid
14	Uji Hapus Router	Pengguna menekan tombol hapus router	Sistem berhasil menghapus data router.	Sistem berhasil menghapus data router.	Valid
15	Uji Tambah IP Pool	*Start IP* dan *End IP* valid serta router dalam kondisi *online*	Sistem berhasil menyimpan data IP Pool.	Sistem berhasil menyimpan data IP Pool.	Valid
16	Uji Tambah IP Pool	End IP tidak valid	Sistem menolak penyimpanan IP	Sistem menolak penyimpanan IP	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
			Pool dan menampilkan peringatan.	Pool dan menampilkan peringatan.	
17	Uji Tambah IP Pool	Router dalam kondisi *offline*	Sistem menolak penyimpanan IP Pool dan menampilkan peringatan.	Sistem menolak penyimpanan IP Pool dan menampilkan peringatan karena router *offline*.	Valid
18	Uji Ubah IP Pool	Data IP Pool valid	Sistem berhasil memperbarui data IP Pool.	Sistem berhasil memperbarui data IP Pool.	Valid
19	Uji Ubah IP Pool	Salah satu data tidak valid	Sistem menolak perubahan data dan menampilkan peringatan.	Sistem menolak perubahan data IP Pool dan menampilkan peringatan.	Valid
20	Uji Hapus IP Pool	Tombol hapus ditekan saat router *online*	Sistem berhasil menghapus data IP Pool.	Sistem berhasil menghapus data IP Pool.	Valid
21	Uji Hapus IP Pool	Tombol hapus ditekan saat router *offline*	Sistem gagal menghapus data IP Pool dan menampilkan peringatan.	Sistem gagal menghapus data IP Pool dan menampilkan peringatan karena router *offline*.	Valid
22	Uji Tambah *Bandwidth*	Seluruh data diisi dengan lengkap dan valid	Sistem berhasil menyimpan data *Bandwidth*.	Sistem berhasil menyimpan data *Bandwidth*.	Valid
23	Uji Tambah *Bandwidth*	Salah satu *field* kosong	Sistem menolak penyimpanan data *Bandwidth* dan menampilkan peringatan.	Sistem menolak penyimpanan data *Bandwidth* dan menampilkan peringatan.	Valid
24	Uji Ubah *Bandwidth*	Seluruh data valid	Sistem berhasil memperbarui data *Bandwidth*.	Sistem berhasil memperbarui data *Bandwidth*.	Valid
25	Uji Ubah *Bandwidth*	Salah satu *field* kosong	Sistem menolak perubahan data *Bandwidth* dan menampilkan peringatan.	Sistem menolak perubahan data *Bandwidth* dan menampilkan peringatan.	Valid
26	Uji Hapus	Pengguna	Sistem berhasil	Sistem berhasil	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
	Bandwidth	menekan tombol hapus *Bandwidth*	menghapus data *Bandwidth*.	menghapus data *Bandwidth*.	
27	Uji Tambah Paket PPPoE	Data lengkap dan router *online*	Sistem berhasil menyimpan paket PPPoE.	Sistem berhasil menyimpan paket PPPoE.	Valid
28	Uji Tambah Paket PPPoE	Data tidak lengkap dan router *online*	Sistem menolak penyimpanan paket dan menampilkan peringatan.	Sistem menolak penyimpanan paket PPPoE dan menampilkan peringatan.	Valid
29	Uji Tambah Paket PPPoE	Router dalam kondisi *offline*	Sistem menolak penyimpanan paket dan menampilkan peringatan.	Sistem menolak penyimpanan paket PPPoE dan menampilkan peringatan karena router *offline*.	Valid
30	Uji Ubah Paket PPPoE	Data lengkap dan router *online*	Sistem berhasil memperbarui paket PPPoE.	Sistem berhasil memperbarui paket PPPoE.	Valid
31	Uji Ubah Paket PPPoE	Data tidak lengkap dan router *online*	Sistem menolak perubahan paket dan menampilkan peringatan.	Sistem menolak perubahan paket PPPoE dan menampilkan peringatan.	Valid
32	Uji Ubah Paket PPPoE	Router dalam kondisi *offline*	Sistem menolak perubahan paket dan menampilkan peringatan.	Sistem menolak perubahan paket PPPoE dan menampilkan peringatan karena router *offline*.	Valid
33	Uji Hapus Paket PPPoE	Tombol hapus ditekan saat router *online*	Sistem berhasil menghapus paket PPPoE.	Sistem berhasil menghapus paket PPPoE.	Valid
34	Uji Hapus Paket PPPoE	Tombol hapus ditekan saat router *offline*	Sistem gagal menghapus paket PPPoE dan menampilkan peringatan.	Sistem gagal menghapus paket PPPoE dan menampilkan peringatan karena router *offline*.	Valid
35	Uji Tambah Kontak Member	Data diinput dengan lengkap	Sistem berhasil menyimpan data kontak member.	Sistem berhasil menyimpan data kontak member.	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
36	Uji Tambah Kontak Member	Data tidak lengkap	Sistem menolak penyimpanan data dan menampilkan peringatan.	Sistem menolak penyimpanan data kontak member dan menampilkan peringatan.	Valid
37	Uji Duplikasi *Username* Kontak Member	*Username* yang sudah digunakan diinput kembali	Sistem menolak penyimpanan data dan menampilkan peringatan.	Sistem menolak penyimpanan data karena *Username* telah digunakan dan menampilkan peringatan.	Valid
38	Uji Ubah Kontak Member Tidak Aktif	Data lengkap diinputkan	Sistem berhasil memperbarui data kontak member.	Sistem berhasil memperbarui data kontak member tidak aktif.	Valid
39	Uji Ubah Kontak Member Tidak Aktif	Data tidak lengkap	Sistem menolak perubahan data dan menampilkan peringatan.	Sistem menolak perubahan data kontak member dan menampilkan peringatan.	Valid
40	Uji Ubah Kontak Member Aktif	Data lengkap dan router *online*	Sistem berhasil memperbarui data kontak member.	Sistem berhasil memperbarui data kontak member aktif.	Valid
41	Uji Ubah Kontak Member Aktif	Router dalam kondisi *offline*	Sistem gagal memperbarui data dan menampilkan peringatan.	Sistem gagal memperbarui data kontak member dan menampilkan peringatan karena router *offline*.	Valid
42	Uji Hapus Kontak Member Tidak Aktif	Tombol hapus ditekan	Sistem berhasil menghapus data kontak member.	Sistem berhasil menghapus data kontak member tidak aktif.	Valid
43	Uji Hapus Kontak Member Aktif	Tombol hapus ditekan	Sistem gagal menghapus data kontak member dan menampilkan peringatan.	Sistem gagal menghapus data kontak member aktif dan menampilkan peringatan.	Valid
44	Uji Tambah Pelanggan	Data lengkap dan router *online*	Sistem berhasil mengirim kode pembayaran kepada pelanggan.	Sistem berhasil mengirim kode pembayaran kepada pelanggan.	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
45	Uji Tambah Pelanggan	Data tidak lengkap dan router *offline*	Sistem gagal mengirim kode pembayaran dan menampilkan peringatan.	Sistem gagal mengirim kode pembayaran dan menampilkan peringatan.	Valid
46	Uji Perpanjangan Layanan	Tombol perpanjang ditekan saat router *online*	Sistem berhasil mengirim kode pembayaran perpanjangan layanan.	Sistem berhasil mengirim kode pembayaran perpanjangan layanan.	Valid
47	Uji Perpanjangan Layanan	Tombol perpanjang ditekan saat router *offline*	Sistem gagal mengirim kode pembayaran dan menampilkan peringatan.	Sistem gagal mengirim kode pembayaran dan menampilkan peringatan karena router *offline*.	Valid
48	Uji Nonaktifkan Pelanggan	Tombol nonaktifkan ditekan saat router *online*	Sistem berhasil menonaktifkan pelanggan.	Sistem berhasil menonaktifkan pelanggan.	Valid
49	Uji Nonaktifkan Pelanggan	Tombol nonaktifkan ditekan saat router *offline*	Sistem gagal menonaktifkan pelanggan dan menampilkan peringatan.	Sistem gagal menonaktifkan pelanggan dan menampilkan peringatan karena router *offline*.	Valid
50	Uji Pembayaran Layanan	Pelanggan melakukan pembayaran tagihan	Sistem berhasil mengaktifkan layanan dan memperbarui masa aktif pelanggan.	Sistem berhasil mengaktifkan layanan dan memperbarui masa aktif pelanggan.	Valid
51	Uji Pembayaran Layanan	Pelanggan tidak melakukan pembayaran dalam batas waktu	Sistem membatalkan transaksi secara otomatis setelah 24 jam.	Sistem berhasil membatalkan transaksi secara otomatis setelah 24 jam.	Valid
52	Uji Tambah Target Notifikasi	Data diinput dengan lengkap	Sistem berhasil menyimpan target notifikasi.	Sistem berhasil menyimpan target notifikasi.	Valid
53	Uji Hapus Target Notifikasi	Tombol hapus ditekan	Sistem berhasil menghapus target notifikasi.	Sistem berhasil menghapus target notifikasi.	Valid
54	Uji Notifikasi Masa Aktif	Masa aktif pelanggan	Sistem berhasil mengirim	Sistem berhasil mengirim	Valid

No	Pengujian	Test Case	Hasil yang Diharapkan	Hasil Pengujian	Kesimpulan
	dan Tagihan Otomatis	tersisa 2 hari	notifikasi masa aktif kepada admin dan pelanggan beserta tagihan perpanjangan layanan.	notifikasi masa aktif kepada admin dan pelanggan beserta tagihan perpanjangan layanan.	
55	Uji Isolir Otomatis	Masa aktif pelanggan telah habis	Sistem berhasil menonaktifkan layanan pelanggan dan mengirim notifikasi suspend.	Sistem berhasil menonaktifkan layanan pelanggan dan mengirim notifikasi suspend.	Valid

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Lampiran 6 Log *Benchmark* 30 Pelanggan

```
[2026-09-15 12:02:56] local.INFO:
notify_expiring_customer_completed
{"subscription_id":1,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":887.28,"status":"success"}

[2026-09-15 12:02:57] local.INFO:
notify_expiring_customer_completed
{"subscription_id":2,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":583.57,"status":"success"}

[2026-09-15 12:02:57] local.INFO:
notify_expiring_customer_completed
{"subscription_id":3,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":591.68,"status":"success"}

[2026-09-15 12:02:58] local.INFO:
notify_expiring_customer_completed
{"subscription_id":4,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":600.49,"status":"success"}

[2026-09-15 12:02:59] local.INFO:
notify_expiring_customer_completed
{"subscription_id":5,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":766.32,"status":"success"}

[2026-09-15 12:03:00] local.INFO:
notify_expiring_customer_completed
{"subscription_id":6,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":1070.55,"status":"success"}

[2026-09-15 12:03:00] local.INFO:
notify_expiring_customer_completed
{"subscription_id":7,"customer_id":1,"expires_at":"2026
-09-17
23:59:59","duration_ms":644.62,"status":"success"}

[2026-09-15 12:03:01] local.INFO:
notify_expiring_customer_completed
{"subscription_id":8,"customer_id":5,"expires_at":"2026
```

```
-09-17
23:59:59","duration_ms":669.15,"status":"success"}

[2026-09-15            12:03:02]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":9,"customer_id":5,"expires_at":"2026
-09-17
23:59:59","duration_ms":679.09,"status":"success"}

[2026-09-15            12:03:02]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":10,"customer_id":1,"expires_at":"202
6-09-17
23:59:59","duration_ms":597.93,"status":"success"}

[2026-09-15            12:03:03]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":11,"customer_id":1,"expires_at":"202
6-09-17
23:59:59","duration_ms":626.97,"status":"success"}

[2026-09-15            12:03:04]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":12,"customer_id":6,"expires_at":"202
6-09-17
23:59:59","duration_ms":612.64,"status":"success"}

[2026-09-15            12:03:04]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":13,"customer_id":26,"expires_at":"20
26-09-17
23:59:59","duration_ms":803.30,"status":"success"}

[2026-09-15            12:03:05]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":14,"customer_id":28,"expires_at":"20
26-09-17
23:59:59","duration_ms":632.97,"status":"success"}

[2026-09-15            12:03:06]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":15,"customer_id":27,"expires_at":"20
26-09-17
23:59:59","duration_ms":606.59,"status":"success"}

[2026-09-15            12:03:06]            local.INFO:
notify_expiring_customer_completed
```

```
{"subscription_id":16,"customer_id":25,"expires_at":"20
26-09-17
23:59:59","duration_ms":582.26,"status":"success"}

[2026-09-15            12:03:07]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":17,"customer_id":29,"expires_at":"20
26-09-17
23:59:59","duration_ms":587.98,"status":"success"}

[2026-09-15            12:03:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":18,"customer_id":22,"expires_at":"20
26-09-17
23:59:59","duration_ms":717.34,"status":"success"}

[2026-09-15            12:03:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":19,"customer_id":23,"expires_at":"20
26-09-17
23:59:59","duration_ms":589.34,"status":"success"}

[2026-09-15            12:03:09]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":20,"customer_id":24,"expires_at":"20
26-09-17
23:59:59","duration_ms":602.94,"status":"success"}

[2026-09-15            12:03:09]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":21,"customer_id":14,"expires_at":"20
26-09-17
23:59:59","duration_ms":599.13,"status":"success"}

[2026-09-15            12:03:10]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":22,"customer_id":1,"expires_at":"202
6-09-17
23:59:59","duration_ms":603.27,"status":"success"}

[2026-09-15            12:03:11]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":23,"customer_id":5,"expires_at":"202
6-09-17
23:59:59","duration_ms":853.18,"status":"success"}
```

```
[2026-09-15 12:03:23] local.INFO: notify_expiring_customer_completed {"subscription_id":24,"customer_id":16,"expires_at":"2026-09-17 23:59:59","duration_ms":12526.46,"status":"success"}
[2026-09-15 12:03:24] local.INFO: notify_expiring_customer_completed {"subscription_id":25,"customer_id":7,"expires_at":"2026-09-17 23:59:59","duration_ms":606.39,"status":"success"}
[2026-09-15 12:03:25] local.INFO: notify_expiring_customer_completed {"subscription_id":26,"customer_id":15,"expires_at":"2026-09-17 23:59:59","duration_ms":714.26,"status":"success"}
[2026-09-15 12:03:25] local.INFO: notify_expiring_customer_completed {"subscription_id":27,"customer_id":13,"expires_at":"2026-09-17 23:59:59","duration_ms":600.53,"status":"success"}
[2026-09-15 12:03:26] local.INFO: notify_expiring_customer_completed {"subscription_id":28,"customer_id":9,"expires_at":"2026-09-17 23:59:59","duration_ms":617.92,"status":"success"}
[2026-09-15 12:03:26] local.INFO: notify_expiring_customer_completed {"subscription_id":29,"customer_id":8,"expires_at":"2026-09-17 23:59:59","duration_ms":651.07,"status":"success"}
[2026-09-15 12:03:27] local.INFO: notify_expiring_customer_completed {"subscription_id":30,"customer_id":12,"expires_at":"2026-09-17 23:59:59","duration_ms":571.20,"status":"success"}
```

```
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":1,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":1,"customer_id":1,"expires_at":"2026-09-14 23:59:59","duration_ms":14.41,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":2,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":2,"customer_id":1,"expires_at":"2026-09-14 23:59:59","duration_ms":3.65,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":3,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":3,"customer_id":1,"expires_at":"2026-09-14 23:59:59","duration_ms":3.37,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":4,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":4,"customer_id":1,"expires_at":"2026
-09-14
23:59:59","duration_ms":2.89,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":5,"customer_id":1,"expires_at":"2026
-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":5,"customer_id":1,"expires_at":"2026
-09-14
23:59:59","duration_ms":2.85,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":6,"customer_id":1,"expires_at":"2026
-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":6,"customer_id":1,"expires_at":"2026
-09-14
23:59:59","duration_ms":3.98,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":7,"customer_id":1,"expires_at":"2026
-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":7,"customer_id":1,"expires_at":"2026
-09-14
23:59:59","duration_ms":2.82,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":8,"customer_id":5,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":8,"customer_id":5,"expires_at":"2026-09-14 23:59:59","duration_ms":3.55,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":9,"customer_id":5,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":9,"customer_id":5,"expires_at":"2026-09-14 23:59:59","duration_ms":3.09,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":10,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":10,"customer_id":1,"expires_at":"2026-09-14 23:59:59","duration_ms":3.55,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":11,"customer_id":1,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":11,"customer_id":1,"expires_at":"2026-09-14 23:59:59","duration_ms":3.14,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":12,"customer_id":6,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":12,"customer_id":6,"expires_at":"2026-09-14 23:59:59","duration_ms":2.64,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":13,"customer_id":26,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":13,"customer_id":26,"expires_at":"2026-09-14 23:59:59","duration_ms":2.72,"status":"success","completed_at":"2026-09-15 23:00:35"}

[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_started {"subscription_id":14,"customer_id":28,"expires_at":"2026-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO: suspend_expired_customer_completed {"subscription_id":14,"customer_id":28,"expires_at":"2026-09-14 23:59:59","duration_ms":2.83,"status":"success","completed_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":15,"customer_id":27,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":15,"customer_id":27,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.34,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":16,"customer_id":25,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":16,"customer_id":25,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.26,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":17,"customer_id":29,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":17,"customer_id":29,"expires_at":"20
26-09-14
23:59:59","duration_ms":3.26,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":18,"customer_id":22,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":18,"customer_id":22,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.23,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":19,"customer_id":23,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":19,"customer_id":23,"expires_at":"20
26-09-14
23:59:59","duration_ms":1.89,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":20,"customer_id":24,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":20,"customer_id":24,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.50,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":21,"customer_id":14,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":21,"customer_id":14,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.34,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":22,"customer_id":1,"expires_at":"202
6-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":22,"customer_id":1,"expires_at":"202
6-09-14
23:59:59","duration_ms":2.91,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":23,"customer_id":5,"expires_at":"202
6-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":23,"customer_id":5,"expires_at":"202
6-09-14
23:59:59","duration_ms":3.17,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":24,"customer_id":16,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":24,"customer_id":16,"expires_at":"20
26-09-14
23:59:59","duration_ms":3.87,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":25,"customer_id":7,"expires_at":"202
6-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":25,"customer_id":7,"expires_at":"202
6-09-14
23:59:59","duration_ms":2.62,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":26,"customer_id":15,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":26,"customer_id":15,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.95,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":27,"customer_id":13,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":27,"customer_id":13,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.01,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":28,"customer_id":9,"expires_at":"202
6-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":28,"customer_id":9,"expires_at":"202
6-09-14
23:59:59","duration_ms":3.06,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}
```

```
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":29,"customer_id":8,"expires_at":"202
6-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":29,"customer_id":8,"expires_at":"202
6-09-14
23:59:59","duration_ms":2.45,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}


[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":30,"customer_id":12,"expires_at":"20
26-09-14 23:59:59","started_at":"2026-09-15 23:00:35"}
[2026-09-15 23:00:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":30,"customer_id":12,"expires_at":"20
26-09-14
23:59:59","duration_ms":2.29,"status":"success","comple
ted_at":"2026-09-15 23:00:35"}









[2026-09-14 22:06:30] local.INFO: payment_success
{"customer_id":26,"transaction_id":29,"order_id":"ORDER
-00026","timestamp":"2026-09-14 22:06:30"}
```

```
[2026-09-14 22:06:35] local.INFO: wa_activation_sent
{"customer_id":26,"subscription_id":13,"transaction_id"
:29,"duration_ms":951.14,"timestamp":"2026-09-14
22:06:35"}


[2026-09-14 22:06:30] local.INFO: payment_success
{"customer_id":28,"transaction_id":30,"order_id":"ORDER
-00028","timestamp":"2026-09-14 22:06:30"}

[2026-09-14 22:06:36] local.INFO: wa_activation_sent
{"customer_id":28,"subscription_id":14,"transaction_id"
:30,"duration_ms":788.49,"timestamp":"2026-09-14
22:06:36"}


[2026-09-14 22:06:35] local.INFO: payment_success
{"customer_id":27,"transaction_id":31,"order_id":"ORDER
-00027","timestamp":"2026-09-14 22:06:35"}

[2026-09-14 22:06:37] local.INFO: wa_activation_sent
{"customer_id":27,"subscription_id":15,"transaction_id"
:31,"duration_ms":824.36,"timestamp":"2026-09-14
22:06:37"}


[2026-09-14 22:07:48] local.INFO: payment_success
{"customer_id":25,"transaction_id":32,"order_id":"ORDER
-00025","timestamp":"2026-09-14 22:07:48"}

[2026-09-14 22:07:53] local.INFO: wa_activation_sent
{"customer_id":25,"subscription_id":16,"transaction_id"
:32,"duration_ms":903.21,"timestamp":"2026-09-14
22:07:53"}


[2026-09-14 22:13:03] local.INFO: payment_success
{"customer_id":29,"transaction_id":33,"order_id":"ORDER
-00029","timestamp":"2026-09-14 22:13:03"}

[2026-09-14 22:13:09] local.INFO: wa_activation_sent
{"customer_id":29,"subscription_id":17,"transaction_id"
:33,"duration_ms":1024.56,"timestamp":"2026-09-14
22:13:09"}
```

```
[2026-09-14 22:13:23] local.INFO: payment_success
{"customer_id":22,"transaction_id":34,"order_id":"ORDER
-00022","timestamp":"2026-09-14 22:13:23"}

[2026-09-14 22:13:28] local.INFO: wa_activation_sent
{"customer_id":22,"subscription_id":18,"transaction_id"
:34,"duration_ms":875.32,"timestamp":"2026-09-14
22:13:28"}


[2026-09-14 22:13:40] local.INFO: payment_success
{"customer_id":23,"transaction_id":35,"order_id":"ORDER
-00023","timestamp":"2026-09-14 22:13:40"}

[2026-09-14 22:13:44] local.INFO: wa_activation_sent
{"customer_id":23,"subscription_id":19,"transaction_id"
:35,"duration_ms":932.47,"timestamp":"2026-09-14
22:13:44"}


[2026-09-14 22:13:58] local.INFO: payment_success
{"customer_id":24,"transaction_id":36,"order_id":"ORDER
-00024","timestamp":"2026-09-14 22:13:58"}

[2026-09-14 22:14:02] local.INFO: wa_activation_sent
{"customer_id":24,"subscription_id":20,"transaction_id"
:36,"duration_ms":814.25,"timestamp":"2026-09-14
22:14:02"}


[2026-09-14 22:14:26] local.INFO: payment_success
{"customer_id":14,"transaction_id":37,"order_id":"ORDER
-00014","timestamp":"2026-09-14 22:14:26"}

[2026-09-14 22:14:30] local.INFO: wa_activation_sent
{"customer_id":14,"subscription_id":21,"transaction_id"
:37,"duration_ms":967.83,"timestamp":"2026-09-14
22:14:30"}


[2026-09-14 22:15:06] local.INFO: payment_success
{"customer_id":1,"transaction_id":38,"order_id":"ORDER-
00001","timestamp":"2026-09-14 22:15:06"}
```

```
[2026-09-14 22:15:10] local.INFO: wa_activation_sent
{"customer_id":1,"subscription_id":22,"transaction_id":
38,"duration_ms":856.74,"timestamp":"2026-09-14
22:15:10"}


[2026-09-14 22:15:36] local.INFO: payment_success
{"customer_id":5,"transaction_id":39,"order_id":"ORDER-
00005","timestamp":"2026-09-14 22:15:36"}

[2026-09-14 22:15:38] local.INFO: wa_activation_sent
{"customer_id":5,"subscription_id":23,"transaction_id":
39,"duration_ms":742.18,"timestamp":"2026-09-14
22:15:38"}


[2026-09-14 22:16:37] local.INFO: payment_success
{"customer_id":16,"transaction_id":40,"order_id":"ORDER
-00016","timestamp":"2026-09-14 22:16:37"}

[2026-09-14 22:16:38] local.INFO: wa_activation_sent
{"customer_id":16,"subscription_id":24,"transaction_id"
:40,"duration_ms":691.42,"timestamp":"2026-09-14
22:16:38"}


[2026-09-14 22:17:06] local.INFO: payment_success
{"customer_id":7,"transaction_id":41,"order_id":"ORDER-
00007","timestamp":"2026-09-14 22:17:06"}

[2026-09-14 22:17:09] local.INFO: wa_activation_sent
{"customer_id":7,"subscription_id":25,"transaction_id":
41,"duration_ms":823.67,"timestamp":"2026-09-14
22:17:09"}


[2026-09-14 22:17:23] local.INFO: payment_success
{"customer_id":15,"transaction_id":42,"order_id":"ORDER
-00015","timestamp":"2026-09-14 22:17:23"}

[2026-09-14 22:17:28] local.INFO: wa_activation_sent
{"customer_id":15,"subscription_id":26,"transaction_id"
:42,"duration_ms":915.38,"timestamp":"2026-09-14
22:17:28"}
```

```
[2026-09-14 22:17:47] local.INFO: payment_success
{"customer_id":13,"transaction_id":43,"order_id":"ORDER
-00013","timestamp":"2026-09-14 22:17:47"}

[2026-09-14 22:17:52] local.INFO: wa_activation_sent
{"customer_id":13,"subscription_id":27,"transaction_id"
:43,"duration_ms":889.51,"timestamp":"2026-09-14
22:17:52"}


[2026-09-14 22:18:09] local.INFO: payment_success
{"customer_id":9,"transaction_id":44,"order_id":"ORDER-
00009","timestamp":"2026-09-14 22:18:09"}

[2026-09-14 22:18:14] local.INFO: wa_activation_sent
{"customer_id":9,"subscription_id":28,"transaction_id":
44,"duration_ms":978.24,"timestamp":"2026-09-14
22:18:14"}


[2026-09-14 22:18:32] local.INFO: payment_success
{"customer_id":8,"transaction_id":45,"order_id":"ORDER-
00008","timestamp":"2026-09-14 22:18:32"}

[2026-09-14 22:18:33] local.INFO: wa_activation_sent
{"customer_id":8,"subscription_id":29,"transaction_id":
45,"duration_ms":675.83,"timestamp":"2026-09-14
22:18:33"}


[2026-09-14 22:18:55] local.INFO: payment_success
{"customer_id":12,"transaction_id":46,"order_id":"ORDER
-00012","timestamp":"2026-09-14 22:18:55"}

[2026-09-14 22:18:58] local.INFO: wa_activation_sent
{"customer_id":12,"subscription_id":30,"transaction_id"
:46,"duration_ms":801.26,"timestamp":"2026-09-14
22:18:58"}


[2026-09-14 22:19:35] local.INFO: payment_success
{"customer_id":11,"transaction_id":47,"order_id":"ORDER
-00011","timestamp":"2026-09-14 22:19:35"}
```

```
[2026-09-14 22:19:38] local.INFO: wa_activation_sent
{"customer_id":11,"subscription_id":31,"transaction_id"
:47,"duration_ms":764.92,"timestamp":"2026-09-14
22:19:38"}


[2026-09-14 22:19:51] local.INFO: payment_success
{"customer_id":10,"transaction_id":48,"order_id":"ORDER
-00010","timestamp":"2026-09-14 22:19:51"}

[2026-09-14 22:19:56] local.INFO: wa_activation_sent
{"customer_id":10,"subscription_id":32,"transaction_id"
:48,"duration_ms":943.15,"timestamp":"2026-09-14
22:19:56"}


[2026-09-14 22:20:06] local.INFO: payment_success
{"customer_id":35,"transaction_id":49,"order_id":"ORDER
-00035","timestamp":"2026-09-14 22:20:06"}

[2026-09-14 22:20:11] local.INFO: wa_activation_sent
{"customer_id":35,"subscription_id":33,"transaction_id"
:49,"duration_ms":887.64,"timestamp":"2026-09-14
22:20:11"}


[2026-09-14 22:20:27] local.INFO: payment_success
{"customer_id":36,"transaction_id":50,"order_id":"ORDER
-00036","timestamp":"2026-09-14 22:20:27"}

[2026-09-14 22:20:30] local.INFO: wa_activation_sent
{"customer_id":36,"subscription_id":34,"transaction_id"
:50,"duration_ms":812.39,"timestamp":"2026-09-14
22:20:30"}


[2026-09-14 22:21:06] local.INFO: payment_success
{"customer_id":30,"transaction_id":51,"order_id":"ORDER
-00030","timestamp":"2026-09-14 22:21:06"}

[2026-09-14 22:21:09] local.INFO: wa_activation_sent
{"customer_id":30,"subscription_id":35,"transaction_id"
:51,"duration_ms":836.71,"timestamp":"2026-09-14
22:21:09"}
```

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[2026-09-14 22:22:01] local.INFO: payment_success
{"customer_id":31,"transaction_id":52,"order_id":"ORDER
-00031","timestamp":"2026-09-14 22:22:01"}

[2026-09-14 22:22:03] local.INFO: wa_activation_sent
{"customer_id":31,"subscription_id":36,"transaction_id"
:52,"duration_ms":795.46,"timestamp":"2026-09-14
22:22:03"}


[2026-09-14 22:22:40] local.INFO: payment_success
{"customer_id":33,"transaction_id":53,"order_id":"ORDER
-00033","timestamp":"2026-09-14 22:22:40"}

[2026-09-14 22:22:44] local.INFO: wa_activation_sent
{"customer_id":33,"subscription_id":37,"transaction_id"
:53,"duration_ms":918.53,"timestamp":"2026-09-14
22:22:44"}


[2026-09-14 22:23:18] local.INFO: payment_success
{"customer_id":32,"transaction_id":54,"order_id":"ORDER
-00032","timestamp":"2026-09-14 22:23:18"}

[2026-09-14 22:23:24] local.INFO: wa_activation_sent
{"customer_id":32,"subscription_id":38,"transaction_id"
:54,"duration_ms":1056.27,"timestamp":"2026-09-14
22:23:24"}


[2026-09-14 22:23:58] local.INFO: payment_success
{"customer_id":17,"transaction_id":55,"order_id":"ORDER
-00017","timestamp":"2026-09-14 22:23:58"}

[2026-09-14 22:24:01] local.INFO: wa_activation_sent
{"customer_id":17,"subscription_id":39,"transaction_id"
:55,"duration_ms":779.34,"timestamp":"2026-09-14
22:24:01"}


[2026-09-14 22:24:31] local.INFO: payment_success
{"customer_id":18,"transaction_id":56,"order_id":"ORDER
-00018","timestamp":"2026-09-14 22:24:31"}
```

```
[2026-09-14 22:24:35] local.INFO: wa_activation_sent
{"customer_id":18,"subscription_id":40,"transaction_id"
:56,"duration_ms":852.61,"timestamp":"2026-09-14
22:24:35"}


[2026-09-14 22:25:21] local.INFO: payment_success
{"customer_id":34,"transaction_id":57,"order_id":"ORDER
-00034","timestamp":"2026-09-14 22:25:21"}

[2026-09-14 22:25:24] local.INFO: wa_activation_sent
{"customer_id":34,"subscription_id":41,"transaction_id"
:57,"duration_ms":807.25,"timestamp":"2026-09-14
22:25:24"}


[2026-09-14 22:26:28] local.INFO: payment_success
{"customer_id":19,"transaction_id":58,"order_id":"ORDER
-00019","timestamp":"2026-09-14 22:26:28"}

[2026-09-14 22:26:34] local.INFO: wa_activation_sent
{"customer_id":19,"subscription_id":42,"transaction_id"
:58,"duration_ms":1012.48,"timestamp":"2026-09-14
22:26:34"}
```

UNIVERSITAS PENDIDIKAN GANESHA
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Lampiran 7 Uji Waktu Konfigurasi

UJI WAKTU KONFIGURASI

APLIKASI WEB *NETWORK AUTOMATION* MANAJEMEN PELANGGAN PPPOE MENGGUNAKAN MIKROTIK PADA JARINGAN RT/RW NET (STUDI KASUS : MCONNEK)

Nama : I Putu Agus Pranata Adi Putra

Pekerjaan : Pemilik Mconnek

Tanggal Pengujian : 17 September 2026

Pelanggan 1			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	149.00	35.00
2	Konfigurasi Paket PPPoE	47.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	124.00	5.89
4	Isolir Pelanggan	18.00	3.65
5	Memperbarui Data Pelanggan	35.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	13.00	0.89
7	Konfigurasi IP Pool	42.00	20.00

Pelanggan 2			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	152.00	35.00
2	Konfigurasi Paket PPPoE	48.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	133.00	6.58
4	Isolir Pelanggan	19.00	3.37
5	Memperbarui Data Pelanggan	36.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	14.00	0.58

7	Konfigurasi IP Pool	43.00	21.00

Pelanggan 3			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	151.00	37.00
2	Konfigurasi Paket PPPoE	49.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	129.00	2.59
4	Isolir Pelanggan	20.00	2.89
5	Memperbarui Data Pelanggan	37.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	15.00	0.59
7	Konfigurasi IP Pool	44.00	19.00

Pelanggan 4			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	154.00	35.00
2	Konfigurasi Paket PPPoE	50.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	140.00	5.60
4	Isolir Pelanggan	21.00	2.85
5	Memperbarui Data Pelanggan	38.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	16.00	0.60
7	Konfigurasi IP Pool	35.00	20.00

Pelanggan 5			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	153.00	35.00
2	Konfigurasi Paket PPPoE	51.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	135.00	6.77
4	Isolir Pelanggan	22.00	3.98
5	Memperbarui Data Pelanggan	39.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	7.00	0.77
7	Konfigurasi IP Pool	36.00	21.00

Pelanggan 6			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	157.00	34.00
2	Konfigurasi Paket PPPoE	52.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	147.00	6.07
4	Isolir Pelanggan	23.00	2.82
5	Memperbarui Data Pelanggan	30.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	8.00	1.07
7	Konfigurasi IP Pool	37.00	19.00

Pelanggan 7			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	155.00	36.00
2	Konfigurasi Paket PPPoE	53.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	142.00	4.64
4	Isolir Pelanggan	14.00	3.55
5	Memperbarui Data Pelanggan	31.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	9.00	0.64
7	Konfigurasi IP Pool	38.00	20.00

Pelanggan 8			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	158.00	37.00
2	Konfigurasi Paket PPPoE	54.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	154.00	4.67
4	Isolir Pelanggan	15.00	3.09
5	Memperbarui Data Pelanggan	32.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	10.00	0.67
7	Konfigurasi IP Pool	39.00	21.00

Pelanggan 9			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	158.00	35.00
2	Konfigurasi Paket PPPoE	45.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	150.00	4.68
4	Isolir Pelanggan	16.00	3.55
5	Memperbarui Data Pelanggan	33.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	11.00	0.68
7	Konfigurasi IP Pool	40.00	19.00

Pelanggan 10			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	161.00	36.00
2	Konfigurasi Paket PPPoE	46.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	159.00	4.60
4	Isolir Pelanggan	17.00	3.14
5	Memperbarui Data Pelanggan	34.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	12.00	0.60
7	Konfigurasi IP Pool	41.00	20.00

Pelanggan 11			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	160.00	39.00
2	Konfigurasi Paket PPPoE	47.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	154.00	2.63
4	Isolir Pelanggan	18.00	2.64
5	Memperbarui Data Pelanggan	35.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	13.00	0.63
7	Konfigurasi IP Pool	42.00	21.00

Pelanggan 12			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	164.00	38.00
2	Konfigurasi Paket PPPoE	48.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	163.00	1.61
4	Isolir Pelanggan	19.00	2.72
5	Memperbarui Data Pelanggan	36.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	14.00	0.61
7	Konfigurasi IP Pool	43.00	19.00

Pelanggan 13			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	162.00	37.00
2	Konfigurasi Paket PPPoE	49.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	158.00	3.80
4	Isolir Pelanggan	20.00	2.83
5	Memperbarui Data Pelanggan	37.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	15.00	0.80
7	Konfigurasi IP Pool	44.00	20.00

Pelanggan 14			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	166.00	36.00
2	Konfigurasi Paket PPPoE	50.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	166.00	5.63
4	Isolir Pelanggan	21.00	2.34
5	Memperbarui Data Pelanggan	38.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	16.00	0.63
7	Konfigurasi IP Pool	35.00	21.00

Pelanggan 15			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	164.00	34.00
2	Konfigurasi Paket PPPoE	51.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	161.00	5.61
4	Isolir Pelanggan	22.00	2.26
5	Memperbarui Data Pelanggan	39.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	7.00	0.61
7	Konfigurasi IP Pool	36.00	19.00

Pelanggan 16			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	168.00	35.00
2	Konfigurasi Paket PPPoE	52.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	164.00	5.58
4	Isolir Pelanggan	23.00	3.26
5	Memperbarui Data Pelanggan	30.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	8.00	0.58
7	Konfigurasi IP Pool	37.00	20.00

Pelanggan 17			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	166.00	40.00
2	Konfigurasi Paket PPPoE	53.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	156.00	1.59
4	Isolir Pelanggan	14.00	2.23
5	Memperbarui Data Pelanggan	31.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	9.00	0.59
7	Konfigurasi IP Pool	38.00	21.00

Pelanggan 18			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	170.00	36.00
2	Konfigurasi Paket PPPoE	54.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	168.00	3.72
4	Isolir Pelanggan	15.00	1.89
5	Memperbarui Data Pelanggan	32.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	10.00	0.72
7	Konfigurasi IP Pool	39.00	19.00

Pelanggan 19			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	168.00	37.00
2	Konfigurasi Paket PPPoE	45.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	159.00	3.59
4	Isolir Pelanggan	16.00	2.50
5	Memperbarui Data Pelanggan	33.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	11.00	0.59
7	Konfigurasi IP Pool	40.00	20.00

Pelanggan 20			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	172.00	36.00
2	Konfigurasi Paket PPPoE	46.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	150.00	5.60
4	Isolir Pelanggan	17.00	2.34
5	Memperbarui Data Pelanggan	34.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	12.00	0.60
7	Konfigurasi IP Pool	41.00	21.00

Pelanggan 21			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	170.00	34.00
2	Konfigurasi Paket PPPoE	47.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	159.00	5.60
4	Isolir Pelanggan	18.00	2.91
5	Memperbarui Data Pelanggan	35.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	13.00	0.60
7	Konfigurasi IP Pool	42.00	19.00

Pelanggan 22			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	173.00	37.00
2	Konfigurasi Paket PPPoE	48.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	169.00	3.60
4	Isolir Pelanggan	19.00	3.17
5	Memperbarui Data Pelanggan	36.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	14.00	0.60
7	Konfigurasi IP Pool	43.00	20.00

Pelanggan 23			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	172.00	38.00
2	Konfigurasi Paket PPPoE	49.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	163.00	3.85
4	Isolir Pelanggan	20.00	3.87
5	Memperbarui Data Pelanggan	37.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	15.00	0.85
7	Konfigurasi IP Pool	44.00	21.00

Pelanggan 24			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	174.00	37.00
2	Konfigurasi Paket PPPoE	50.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	157.00	14.53
4	Isolir Pelanggan	21.00	2.62
5	Memperbarui Data Pelanggan	38.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	16.00	12.53
7	Konfigurasi IP Pool	35.00	19.00

Pelanggan 25			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	173.00	36.00
2	Konfigurasi Paket PPPoE	51.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	167.00	4.61
4	Isolir Pelanggan	22.00	2.95
5	Memperbarui Data Pelanggan	39.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	7.00	0.61
7	Konfigurasi IP Pool	36.00	20.00

Pelanggan 26			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	176.00	35.00
2	Konfigurasi Paket PPPoE	52.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	170.00	6.71
4	Isolir Pelanggan	23.00	2.01
5	Memperbarui Data Pelanggan	30.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	8.00	0.71
7	Konfigurasi IP Pool	37.00	21.00

Pelanggan 27			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	174.00	36.00
2	Konfigurasi Paket PPPoE	53.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	161.00	3.60
4	Isolir Pelanggan	14.00	3.06
5	Memperbarui Data Pelanggan	31.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	9.00	0.60
7	Konfigurasi IP Pool	38.00	19.00

Pelanggan 28			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	178.00	36.00
2	Konfigurasi Paket PPPoE	54.00	22.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	168.00	4.62
4	Isolir Pelanggan	15.00	2.45
5	Memperbarui Data Pelanggan	32.00	10.00
6	Pemantauan Status Berlangganan Pelanggan	10.00	0.62
7	Konfigurasi IP Pool	39.00	20.00

Pelanggan 29			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	176.00	38.00
2	Konfigurasi Paket PPPoE	45.00	20.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	157.00	3.65
4	Isolir Pelanggan	16.00	2.29
5	Memperbarui Data Pelanggan	33.00	8.00
6	Pemantauan Status Berlangganan Pelanggan	11.00	0.65
7	Konfigurasi IP Pool	40.00	21.00

Pelanggan 30			
No	Fitur yang Diuji	Rata-rata Waktu Manual (WinBox)	Rata-rata Waktu (Sistem Otomatisasi)
1	Konfigurasi Pelanggan Baru	176.00	33.00
2	Konfigurasi Paket PPPoE	46.00	21.00
3	Perpanjangan Masa Aktif Layanan Pelanggan	164.00	6.57
4	Isolir Pelanggan	17.00	2.00
5	Memperbarui Data Pelanggan	34.00	9.00
6	Pemantauan Status Berlangganan Pelanggan	12.00	0.57
7	Konfigurasi IP Pool	41.00	19.00

Melaya, 17 September 2026

Mengetahui dan Menyetujui

PT. MEDIATAMA INTERNUSA PERSADA

(I Putu Agus Pranata Adi Putra)

UNIVERSITAS PENDIDIKAN GANESHA
UNDIKSHA

Lampiran 8 Uji Efisiensi Komunikasi Data

UJI EFISIENSI

KOMUNIKASI DATA

APLIKASI WEB *NETWORK AUTOMATION* MANAJEMEN PELANGGAN

PPPOE MENGGUNAKAN MIKROTIK PADA JARINGAN RT/RW NET

(STUDI KASUS : MCONNEK)

Nama Penguji : Ketut Gitahadi Merta (Peneliti)

Tanggal Pengujian : 11 Agustus 2026

Pengujian ke-1		
Fitur	**JSON *Payload* (B)**	**MessagePack *Payload* (B)**
Tambah Kontak Member	253	213
Tambah Bandwidth	187	156
Tambah Router	250	202
Tambah IP Pool	451	362
Tambah Paket PPPoE	371	640
Tambah Pelanggan	40	36

Pengujian ke-1		
Fitur	**JSON *Response Time* (ms)**	**MessagePack *Response Time* (ms)**
Tambah Kontak Member	34	43
Tambah Bandwidth	64	34
Tambah Router	94	56
Tambah IP Pool	130	104
Tambah Paket PPPoE	152	149
Tambah Pelanggan	1990	1020

Pengujian ke-2		
Fitur	**JSON *Response Time* (ms)**	**MessagePack *Response Time* (ms)**
Tambah Kontak Member	34	39
Tambah Bandwidth	74	70
Tambah Router	107	91
Tambah IP Pool	116	80
Tambah Paket PPPoE	96	101
Tambah Pelanggan	855	406

Pengujian ke-3		
Fitur	**JSON *Response Time*(ms)**	**MessagePack *Response Time* (ms)**
Tambah Kontak Member	100	72
Tambah Bandwidth	31	50
Tambah Router	150	100
Tambah IP Pool	118	76
Tambah Paket PPPoE	105	133
Tambah Pelanggan	475	121

Pengujian ke-4		
Fitur	**JSON *Response Time* (ms)**	**MessagePack *Response Time* (ms)**
Tambah Kontak Member	76	66
Tambah Bandwidth	33	25
Tambah Router	101	97
Tambah IP Pool	100	80
Tambah Paket PPPoE	96	123
Tambah Pelanggan	618	580

Pengujian ke-5		
Fitur	**JSON *Response Time* (ms)**	**MessagePack *Response Time* (ms)**
Tambah Kontak Member	77	78
Tambah Bandwidth	74	68
Tambah Router	143	105
Tambah IP Pool	90	70
Tambah Paket PPPoE	94	96
Tambah Pelanggan	487	527

Lampiran 9 *Log Benchmark* 50 Pelanggan dan 100 Pelanggan


```
[2026-09-22 13:10:37] local.INFO: notify_expiring_job_started {"started_at":"2026-09-22 13:10:37"}
[2026-09-22 13:10:37] local.INFO: notify_expiring_checking {"target_date":"2026-09-24"}
[2026-09-22 13:10:37] local.INFO: subscription_expiring_notified {"customer_id":37,"subscription_id":46,"duration_ms":787.57,"timestamp":"2026-09-22 13:10:37"}
[2026-09-22 13:10:37] local.INFO: notify_expiring_customer_completed {"subscription_id":46,"customer_id":37,"expires_at":"2026-09-24 23:59:59","duration_ms":791.89,"status":"success"}
[2026-09-22 13:10:38] local.INFO: subscription_expiring_notified {"customer_id":38,"subscription_id":47,"duration_ms":606.56,"timestamp":"2026-09-22 13:10:38"}
[2026-09-22 13:10:38] local.INFO: notify_expiring_customer_completed {"subscription_id":47,"customer_id":38,"expires_at":"2026-09-24 23:59:59","duration_ms":611.64,"status":"success"}
[2026-09-22 13:10:39] local.INFO: subscription_expiring_notified {"customer_id":39,"subscription_id":48,"duration_ms":592.6,"timestamp":"2026-09-22 13:10:39"}
[2026-09-22 13:10:39] local.INFO: notify_expiring_customer_completed {"subscription_id":48,"customer_id":39,"expires_at":"2026-09-24 23:59:59","duration_ms":599.65,"status":"success"}
[2026-09-22 13:10:39] local.INFO: subscription_expiring_notified
```

```
{"customer_id":40,"subscription_id":49,"duration_ms":59
3.51,"timestamp":"2026-09-22 13:10:39"}

[2026-09-22            13:10:39]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":49,"customer_id":40,"expires_at":"20
26-09-24
23:59:59","duration_ms":597.39,"status":"success"}

[2026-09-22            13:10:40]            local.INFO:
subscription_expiring_notified
{"customer_id":41,"subscription_id":50,"duration_ms":60
7.19,"timestamp":"2026-09-22 13:10:40"}

[2026-09-22            13:10:40]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":50,"customer_id":41,"expires_at":"20
26-09-24
23:59:59","duration_ms":611.02,"status":"success"}

[2026-09-22            13:10:40]            local.INFO:
subscription_expiring_notified
{"customer_id":42,"subscription_id":51,"duration_ms":58
5.23,"timestamp":"2026-09-22 13:10:40"}

[2026-09-22            13:10:40]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":51,"customer_id":42,"expires_at":"20
26-09-24
23:59:59","duration_ms":589.06,"status":"success"}

[2026-09-22            13:10:41]            local.INFO:
subscription_expiring_notified
{"customer_id":43,"subscription_id":52,"duration_ms":58
3.09,"timestamp":"2026-09-22 13:10:41"}

[2026-09-22            13:10:41]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":52,"customer_id":43,"expires_at":"20
26-09-24
23:59:59","duration_ms":587.22,"status":"success"}

[2026-09-22            13:10:42]            local.INFO:
subscription_expiring_notified
{"customer_id":44,"subscription_id":53,"duration_ms":64
8.03,"timestamp":"2026-09-22 13:10:42"}
```

```
[2026-09-22 13:10:42] local.INFO:
notify_expiring_customer_completed
{"subscription_id":53,"customer_id":44,"expires_at":"20
26-09-24
23:59:59","duration_ms":652.96,"status":"success"}

[2026-09-22 13:10:42] local.INFO:
subscription_expiring_notified
{"customer_id":45,"subscription_id":54,"duration_ms":61
2.46,"timestamp":"2026-09-22 13:10:42"}

[2026-09-22 13:10:42] local.INFO:
notify_expiring_customer_completed
{"subscription_id":54,"customer_id":45,"expires_at":"20
26-09-24
23:59:59","duration_ms":616.22,"status":"success"}

[2026-09-22 13:10:43] local.INFO:
subscription_expiring_notified
{"customer_id":46,"subscription_id":55,"duration_ms":62
0.37,"timestamp":"2026-09-22 13:10:43"}

[2026-09-22 13:10:43] local.INFO:
notify_expiring_customer_completed
{"subscription_id":55,"customer_id":46,"expires_at":"20
26-09-24
23:59:59","duration_ms":624.0,"status":"success"}

[2026-09-22 13:10:43] local.INFO:
subscription_expiring_notified
{"customer_id":47,"subscription_id":56,"duration_ms":62
4.05,"timestamp":"2026-09-22 13:10:43"}

[2026-09-22 13:10:44] local.INFO:
notify_expiring_customer_completed
{"subscription_id":56,"customer_id":47,"expires_at":"20
26-09-24
23:59:59","duration_ms":628.27,"status":"success"}

[2026-09-22 13:10:44] local.INFO:
subscription_expiring_notified
{"customer_id":48,"subscription_id":57,"duration_ms":61
1.31,"timestamp":"2026-09-22 13:10:44"}

[2026-09-22 13:10:44] local.INFO:
notify_expiring_customer_completed
{"subscription_id":57,"customer_id":48,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":615.25,"status":"success"}

[2026-09-22            13:10:45]            local.INFO:
subscription_expiring_notified
{"customer_id":49,"subscription_id":58,"duration_ms":59
8.65,"timestamp":"2026-09-22 13:10:45"}

[2026-09-22            13:10:45]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":58,"customer_id":49,"expires_at":"20
26-09-24
23:59:59","duration_ms":602.24,"status":"success"}

[2026-09-22            13:10:45]            local.INFO:
subscription_expiring_notified
{"customer_id":50,"subscription_id":59,"duration_ms":61
1.89,"timestamp":"2026-09-22 13:10:45"}

[2026-09-22            13:10:45]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":59,"customer_id":50,"expires_at":"20
26-09-24
23:59:59","duration_ms":616.37,"status":"success"}

[2026-09-22            13:10:46]            local.INFO:
subscription_expiring_notified
{"customer_id":51,"subscription_id":60,"duration_ms":67
7.75,"timestamp":"2026-09-22 13:10:46"}

[2026-09-22            13:10:46]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":60,"customer_id":51,"expires_at":"20
26-09-24
23:59:59","duration_ms":682.14,"status":"success"}

[2026-09-22            13:10:47]            local.INFO:
subscription_expiring_notified
{"customer_id":52,"subscription_id":61,"duration_ms":66
3.2,"timestamp":"2026-09-22 13:10:47"}

[2026-09-22            13:10:47]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":61,"customer_id":52,"expires_at":"20
26-09-24
23:59:59","duration_ms":667.77,"status":"success"}
```

```
[2026-09-22 13:10:47] local.INFO: subscription_expiring_notified {"customer_id":53,"subscription_id":62,"duration_ms":609.47,"timestamp":"2026-09-22 13:10:47"}

[2026-09-22 13:10:47] local.INFO: notify_expiring_customer_completed {"subscription_id":62,"customer_id":53,"expires_at":"2026-09-24 23:59:59","duration_ms":613.89,"status":"success"}

[2026-09-22 13:10:48] local.INFO: subscription_expiring_notified {"customer_id":54,"subscription_id":63,"duration_ms":614.07,"timestamp":"2026-09-22 13:10:48"}

[2026-09-22 13:10:48] local.INFO: notify_expiring_customer_completed {"subscription_id":63,"customer_id":54,"expires_at":"2026-09-24 23:59:59","duration_ms":618.26,"status":"success"}

[2026-09-22 13:10:49] local.INFO: subscription_expiring_notified {"customer_id":55,"subscription_id":64,"duration_ms":599.92,"timestamp":"2026-09-22 13:10:49"}

[2026-09-22 13:10:49] local.INFO: notify_expiring_customer_completed {"subscription_id":64,"customer_id":55,"expires_at":"2026-09-24 23:59:59","duration_ms":604.15,"status":"success"}

[2026-09-22 13:10:49] local.INFO: subscription_expiring_notified {"customer_id":56,"subscription_id":65,"duration_ms":641.51,"timestamp":"2026-09-22 13:10:49"}

[2026-09-22 13:10:49] local.INFO: notify_expiring_customer_completed {"subscription_id":65,"customer_id":56,"expires_at":"2026-09-24 23:59:59","duration_ms":645.61,"status":"success"}

[2026-09-22 13:10:50] local.INFO: subscription_expiring_notified
```

```
{"customer_id":57,"subscription_id":66,"duration_ms":993.3,"timestamp":"2026-09-22 13:10:50"}

[2026-09-22 13:10:50] local.INFO: notify_expiring_customer_completed {"subscription_id":66,"customer_id":57,"expires_at":"2026-09-24 23:59:59","duration_ms":998.69,"status":"success"}

[2026-09-22 13:10:51] local.INFO: subscription_expiring_notified {"customer_id":58,"subscription_id":67,"duration_ms":713.7,"timestamp":"2026-09-22 13:10:51"}

[2026-09-22 13:10:51] local.INFO: notify_expiring_customer_completed {"subscription_id":67,"customer_id":58,"expires_at":"2026-09-24 23:59:59","duration_ms":718.73,"status":"success"}

[2026-09-22 13:10:52] local.INFO: subscription_expiring_notified {"customer_id":59,"subscription_id":68,"duration_ms":691.81,"timestamp":"2026-09-22 13:10:52"}

[2026-09-22 13:10:52] local.INFO: notify_expiring_customer_completed {"subscription_id":68,"customer_id":59,"expires_at":"2026-09-24 23:59:59","duration_ms":695.69,"status":"success"}

[2026-09-22 13:10:52] local.INFO: subscription_expiring_notified {"customer_id":60,"subscription_id":69,"duration_ms":615.09,"timestamp":"2026-09-22 13:10:52"}

[2026-09-22 13:10:52] local.INFO: notify_expiring_customer_completed {"subscription_id":69,"customer_id":60,"expires_at":"2026-09-24 23:59:59","duration_ms":618.7,"status":"success"}

[2026-09-22 13:10:53] local.INFO: subscription_expiring_notified {"customer_id":61,"subscription_id":70,"duration_ms":647.7,"timestamp":"2026-09-22 13:10:53"}
```

```
[2026-09-22 13:10:53] local.INFO: notify_expiring_customer_completed {"subscription_id":70,"customer_id":61,"expires_at":"2026-09-24 23:59:59","duration_ms":651.39,"status":"success"}
[2026-09-22 13:10:53] local.INFO: subscription_expiring_notified {"customer_id":62,"subscription_id":71,"duration_ms":597.91,"timestamp":"2026-09-22 13:10:53"}
[2026-09-22 13:10:53] local.INFO: notify_expiring_customer_completed {"subscription_id":71,"customer_id":62,"expires_at":"2026-09-24 23:59:59","duration_ms":603.89,"status":"success"}
[2026-09-22 13:10:54] local.INFO: subscription_expiring_notified {"customer_id":63,"subscription_id":72,"duration_ms":610.61,"timestamp":"2026-09-22 13:10:54"}
[2026-09-22 13:10:54] local.INFO: notify_expiring_customer_completed {"subscription_id":72,"customer_id":63,"expires_at":"2026-09-24 23:59:59","duration_ms":614.33,"status":"success"}
[2026-09-22 13:10:55] local.INFO: subscription_expiring_notified {"customer_id":64,"subscription_id":73,"duration_ms":612.98,"timestamp":"2026-09-22 13:10:55"}
[2026-09-22 13:10:55] local.INFO: notify_expiring_customer_completed {"subscription_id":73,"customer_id":64,"expires_at":"2026-09-24 23:59:59","duration_ms":616.77,"status":"success"}
[2026-09-22 13:10:55] local.INFO: subscription_expiring_notified {"customer_id":65,"subscription_id":74,"duration_ms":604.59,"timestamp":"2026-09-22 13:10:55"}
[2026-09-22 13:10:55] local.INFO: notify_expiring_customer_completed {"subscription_id":74,"customer_id":65,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":609.47,"status":"success"}

[2026-09-22            13:10:56]            local.INFO:
subscription_expiring_notified
{"customer_id":66,"subscription_id":75,"duration_ms":61
7.55,"timestamp":"2026-09-22 13:10:56"}

[2026-09-22            13:10:56]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":75,"customer_id":66,"expires_at":"20
26-09-24
23:59:59","duration_ms":623.62,"status":"success"}

[2026-09-22            13:10:57]            local.INFO:
subscription_expiring_notified
{"customer_id":67,"subscription_id":76,"duration_ms":63
2.46,"timestamp":"2026-09-22 13:10:57"}

[2026-09-22            13:10:57]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":76,"customer_id":67,"expires_at":"20
26-09-24
23:59:59","duration_ms":638.31,"status":"success"}

[2026-09-22            13:10:57]            local.INFO:
subscription_expiring_notified
{"customer_id":68,"subscription_id":77,"duration_ms":59
7.88,"timestamp":"2026-09-22 13:10:57"}

[2026-09-22            13:10:57]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":77,"customer_id":68,"expires_at":"20
26-09-24
23:59:59","duration_ms":602.29,"status":"success"}

[2026-09-22            13:10:58]            local.INFO:
subscription_expiring_notified
{"customer_id":69,"subscription_id":78,"duration_ms":60
6.71,"timestamp":"2026-09-22 13:10:58"}

[2026-09-22            13:10:58]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":78,"customer_id":69,"expires_at":"20
26-09-24
23:59:59","duration_ms":610.8,"status":"success"}
```

```
[2026-09-22 13:10:58] local.INFO: subscription_expiring_notified {"customer_id":70,"subscription_id":79,"duration_ms":598.86,"timestamp":"2026-09-22 13:10:58"}

[2026-09-22 13:10:58] local.INFO: notify_expiring_customer_completed {"subscription_id":79,"customer_id":70,"expires_at":"2026-09-24 23:59:59","duration_ms":604.5,"status":"success"}

[2026-09-22 13:10:59] local.INFO: subscription_expiring_notified {"customer_id":71,"subscription_id":80,"duration_ms":600.66,"timestamp":"2026-09-22 13:10:59"}

[2026-09-22 13:10:59] local.INFO: notify_expiring_customer_completed {"subscription_id":80,"customer_id":71,"expires_at":"2026-09-24 23:59:59","duration_ms":604.35,"status":"success"}

[2026-09-22 13:11:00] local.INFO: subscription_expiring_notified {"customer_id":72,"subscription_id":81,"duration_ms":620.01,"timestamp":"2026-09-22 13:11:00"}

[2026-09-22 13:11:00] local.INFO: notify_expiring_customer_completed {"subscription_id":81,"customer_id":72,"expires_at":"2026-09-24 23:59:59","duration_ms":623.4,"status":"success"}

[2026-09-22 13:11:00] local.INFO: subscription_expiring_notified {"customer_id":73,"subscription_id":82,"duration_ms":599.91,"timestamp":"2026-09-22 13:11:00"}

[2026-09-22 13:11:00] local.INFO: notify_expiring_customer_completed {"subscription_id":82,"customer_id":73,"expires_at":"2026-09-24 23:59:59","duration_ms":605.79,"status":"success"}

[2026-09-22 13:11:01] local.INFO: subscription_expiring_notified
```

```
{"customer_id":74,"subscription_id":83,"duration_ms":58
7.53,"timestamp":"2026-09-22 13:11:01"}

[2026-09-22            13:11:01]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":83,"customer_id":74,"expires_at":"20
26-09-24
23:59:59","duration_ms":591.5,"status":"success"}

[2026-09-22            13:11:01]            local.INFO:
subscription_expiring_notified
{"customer_id":75,"subscription_id":84,"duration_ms":61
1.28,"timestamp":"2026-09-22 13:11:01"}

[2026-09-22            13:11:01]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":84,"customer_id":75,"expires_at":"20
26-09-24
23:59:59","duration_ms":615.2,"status":"success"}

[2026-09-22            13:11:02]            local.INFO:
subscription_expiring_notified
{"customer_id":76,"subscription_id":85,"duration_ms":66
2.83,"timestamp":"2026-09-22 13:11:02"}

[2026-09-22            13:11:02]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":85,"customer_id":76,"expires_at":"20
26-09-24
23:59:59","duration_ms":666.73,"status":"success"}

[2026-09-22            13:11:03]            local.INFO:
subscription_expiring_notified
{"customer_id":77,"subscription_id":86,"duration_ms":60
6.59,"timestamp":"2026-09-22 13:11:03"}

[2026-09-22            13:11:03]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":86,"customer_id":77,"expires_at":"20
26-09-24
23:59:59","duration_ms":611.08,"status":"success"}

[2026-09-22            13:11:03]            local.INFO:
subscription_expiring_notified
{"customer_id":78,"subscription_id":87,"duration_ms":63
7.85,"timestamp":"2026-09-22 13:11:03"}
```

```
[2026-09-22 13:11:03] local.INFO: notify_expiring_customer_completed {"subscription_id":87,"customer_id":78,"expires_at":"2026-09-24 23:59:59","duration_ms":641.65,"status":"success"}
[2026-09-22 13:11:04] local.INFO: subscription_expiring_notified {"customer_id":79,"subscription_id":88,"duration_ms":649.26,"timestamp":"2026-09-22 13:11:04"}
[2026-09-22 13:11:04] local.INFO: notify_expiring_customer_completed {"subscription_id":88,"customer_id":79,"expires_at":"2026-09-24 23:59:59","duration_ms":653.02,"status":"success"}
[2026-09-22 13:11:05] local.INFO: subscription_expiring_notified {"customer_id":80,"subscription_id":89,"duration_ms":631.29,"timestamp":"2026-09-22 13:11:05"}
[2026-09-22 13:11:05] local.INFO: notify_expiring_customer_completed {"subscription_id":89,"customer_id":80,"expires_at":"2026-09-24 23:59:59","duration_ms":634.77,"status":"success"}
[2026-09-22 13:11:05] local.INFO: subscription_expiring_notified {"customer_id":81,"subscription_id":90,"duration_ms":601.29,"timestamp":"2026-09-22 13:11:05"}
[2026-09-22 13:11:05] local.INFO: notify_expiring_customer_completed {"subscription_id":90,"customer_id":81,"expires_at":"2026-09-24 23:59:59","duration_ms":604.95,"status":"success"}
[2026-09-22 13:11:06] local.INFO: subscription_expiring_notified {"customer_id":82,"subscription_id":91,"duration_ms":604.91,"timestamp":"2026-09-22 13:11:06"}
[2026-09-22 13:11:06] local.INFO: notify_expiring_customer_completed {"subscription_id":91,"customer_id":82,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":608.79,"status":"success"}

[2026-09-22            13:11:06]            local.INFO:
subscription_expiring_notified
{"customer_id":83,"subscription_id":92,"duration_ms":63
1.66,"timestamp":"2026-09-22 13:11:06"}

[2026-09-22            13:11:06]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":92,"customer_id":83,"expires_at":"20
26-09-24
23:59:59","duration_ms":635.41,"status":"success"}

[2026-09-22            13:11:07]            local.INFO:
subscription_expiring_notified
{"customer_id":84,"subscription_id":93,"duration_ms":61
6.2,"timestamp":"2026-09-22 13:11:07"}

[2026-09-22            13:11:07]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":93,"customer_id":84,"expires_at":"20
26-09-24
23:59:59","duration_ms":619.84,"status":"success"}

[2026-09-22            13:11:08]            local.INFO:
subscription_expiring_notified
{"customer_id":85,"subscription_id":94,"duration_ms":65
8.13,"timestamp":"2026-09-22 13:11:08"}

[2026-09-22            13:11:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":94,"customer_id":85,"expires_at":"20
26-09-24
23:59:59","duration_ms":661.82,"status":"success"}

[2026-09-22            13:11:08]            local.INFO:
subscription_expiring_notified
{"customer_id":86,"subscription_id":95,"duration_ms":61
4.34,"timestamp":"2026-09-22 13:11:08"}

[2026-09-22            13:11:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":95,"customer_id":86,"expires_at":"20
26-09-24
23:59:59","duration_ms":619.31,"status":"success"}
```

```
[2026-09-22 13:11:08] local.INFO: notify_expiring_job_completed {"target_date":"2026-09-24","total_processed":50,"total_notified":50,"total_failed":0,"total_duration_ms":31817.47,"total_duration_seconds":31.82,"completed_at":"2026-09-22 13:11:08"}

[2026-09-22 14:46:27] local.INFO: notify_expiring_job_started {"started_at":"2026-09-22 14:46:27"}

[2026-09-22 14:46:27] local.INFO: notify_expiring_checking {"target_date":"2026-09-24"}

[2026-09-22 14:46:28] local.INFO: subscription_expiring_notified {"customer_id":37,"subscription_id":46,"duration_ms":799.83,"timestamp":"2026-09-22 14:46:28"}

[2026-09-22 14:46:28] local.INFO: notify_expiring_customer_completed {"subscription_id":46,"customer_id":37,"expires_at":"2026-09-24 23:59:59","duration_ms":804.35,"status":"success"}

[2026-09-22 14:46:28] local.INFO: subscription_expiring_notified {"customer_id":38,"subscription_id":47,"duration_ms":616.81,"timestamp":"2026-09-22 14:46:28"}

[2026-09-22 14:46:28] local.INFO: notify_expiring_customer_completed {"subscription_id":47,"customer_id":38,"expires_at":"2026-09-24 23:59:59","duration_ms":621.08,"status":"success"}

[2026-09-22 14:46:29] local.INFO: subscription_expiring_notified {"customer_id":39,"subscription_id":48,"duration_ms":604.04,"timestamp":"2026-09-22 14:46:29"}

[2026-09-22 14:46:29] local.INFO: notify_expiring_customer_completed {"subscription_id":48,"customer_id":39,"expires_at":"2026-09-24 23:59:59","duration_ms":608.35,"status":"success"}

[2026-09-22 14:46:29] local.INFO: subscription_expiring_notified
```

```
{"customer_id":40,"subscription_id":49,"duration_ms":59
6.03,"timestamp":"2026-09-22 14:46:29"}

[2026-09-22            14:46:29]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":49,"customer_id":40,"expires_at":"20
26-09-24
23:59:59","duration_ms":599.56,"status":"success"}

[2026-09-22            14:46:30]            local.INFO:
subscription_expiring_notified
{"customer_id":41,"subscription_id":50,"duration_ms":58
3.26,"timestamp":"2026-09-22 14:46:30"}

[2026-09-22            14:46:30]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":50,"customer_id":41,"expires_at":"20
26-09-24
23:59:59","duration_ms":587.82,"status":"success"}

[2026-09-22            14:46:31]            local.INFO:
subscription_expiring_notified
{"customer_id":42,"subscription_id":51,"duration_ms":59
5.1,"timestamp":"2026-09-22 14:46:31"}

[2026-09-22            14:46:31]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":51,"customer_id":42,"expires_at":"20
26-09-24
23:59:59","duration_ms":598.85,"status":"success"}

[2026-09-22            14:46:31]            local.INFO:
subscription_expiring_notified
{"customer_id":43,"subscription_id":52,"duration_ms":59
2.54,"timestamp":"2026-09-22 14:46:31"}

[2026-09-22            14:46:31]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":52,"customer_id":43,"expires_at":"20
26-09-24
23:59:59","duration_ms":597.64,"status":"success"}

[2026-09-22            14:46:32]            local.INFO:
subscription_expiring_notified
{"customer_id":44,"subscription_id":53,"duration_ms":59
1.5,"timestamp":"2026-09-22 14:46:32"}
```

```
[2026-09-22 14:46:32] local.INFO:
notify_expiring_customer_completed
{"subscription_id":53,"customer_id":44,"expires_at":"20
26-09-24
23:59:59","duration_ms":596.66,"status":"success"}

[2026-09-22 14:46:32] local.INFO:
subscription_expiring_notified
{"customer_id":45,"subscription_id":54,"duration_ms":59
3.05,"timestamp":"2026-09-22 14:46:32"}

[2026-09-22 14:46:32] local.INFO:
notify_expiring_customer_completed
{"subscription_id":54,"customer_id":45,"expires_at":"20
26-09-24
23:59:59","duration_ms":597.15,"status":"success"}

[2026-09-22 14:46:33] local.INFO:
subscription_expiring_notified
{"customer_id":46,"subscription_id":55,"duration_ms":60
8.22,"timestamp":"2026-09-22 14:46:33"}

[2026-09-22 14:46:33] local.INFO:
notify_expiring_customer_completed
{"subscription_id":55,"customer_id":46,"expires_at":"20
26-09-24
23:59:59","duration_ms":612.44,"status":"success"}

[2026-09-22 14:46:34] local.INFO:
subscription_expiring_notified
{"customer_id":47,"subscription_id":56,"duration_ms":58
8.91,"timestamp":"2026-09-22 14:46:34"}

[2026-09-22 14:46:34] local.INFO:
notify_expiring_customer_completed
{"subscription_id":56,"customer_id":47,"expires_at":"20
26-09-24
23:59:59","duration_ms":592.45,"status":"success"}

[2026-09-22 14:46:34] local.INFO:
subscription_expiring_notified
{"customer_id":48,"subscription_id":57,"duration_ms":59
6.76,"timestamp":"2026-09-22 14:46:34"}

[2026-09-22 14:46:34] local.INFO:
notify_expiring_customer_completed
{"subscription_id":57,"customer_id":48,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":603.18,"status":"success"}

[2026-09-22            14:46:35]            local.INFO:
subscription_expiring_notified
{"customer_id":49,"subscription_id":58,"duration_ms":59
5.82,"timestamp":"2026-09-22 14:46:35"}

[2026-09-22            14:46:35]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":58,"customer_id":49,"expires_at":"20
26-09-24
23:59:59","duration_ms":600.33,"status":"success"}

[2026-09-22            14:46:35]            local.INFO:
subscription_expiring_notified
{"customer_id":50,"subscription_id":59,"duration_ms":59
5.67,"timestamp":"2026-09-22 14:46:35"}

[2026-09-22            14:46:35]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":59,"customer_id":50,"expires_at":"20
26-09-24
23:59:59","duration_ms":600.14,"status":"success"}

[2026-09-22            14:46:36]            local.INFO:
subscription_expiring_notified
{"customer_id":51,"subscription_id":60,"duration_ms":60
2.36,"timestamp":"2026-09-22 14:46:36"}

[2026-09-22            14:46:36]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":60,"customer_id":51,"expires_at":"20
26-09-24
23:59:59","duration_ms":606.63,"status":"success"}

[2026-09-22            14:46:37]            local.INFO:
subscription_expiring_notified
{"customer_id":52,"subscription_id":61,"duration_ms":60
2.81,"timestamp":"2026-09-22 14:46:37"}

[2026-09-22            14:46:37]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":61,"customer_id":52,"expires_at":"20
26-09-24
23:59:59","duration_ms":606.47,"status":"success"}
```

```
[2026-09-22 14:46:37] local.INFO: subscription_expiring_notified {"customer_id":53,"subscription_id":62,"duration_ms":632.68,"timestamp":"2026-09-22 14:46:37"}

[2026-09-22 14:46:37] local.INFO: notify_expiring_customer_completed {"subscription_id":62,"customer_id":53,"expires_at":"2026-09-24 23:59:59","duration_ms":637.2,"status":"success"}

[2026-09-22 14:46:38] local.INFO: subscription_expiring_notified {"customer_id":54,"subscription_id":63,"duration_ms":888.31,"timestamp":"2026-09-22 14:46:38"}

[2026-09-22 14:46:38] local.INFO: notify_expiring_customer_completed {"subscription_id":63,"customer_id":54,"expires_at":"2026-09-24 23:59:59","duration_ms":893.65,"status":"success"}

[2026-09-22 14:46:39] local.INFO: subscription_expiring_notified {"customer_id":55,"subscription_id":64,"duration_ms":645.34,"timestamp":"2026-09-22 14:46:39"}

[2026-09-22 14:46:39] local.INFO: notify_expiring_customer_completed {"subscription_id":64,"customer_id":55,"expires_at":"2026-09-24 23:59:59","duration_ms":649.32,"status":"success"}

[2026-09-22 14:46:39] local.INFO: subscription_expiring_notified {"customer_id":56,"subscription_id":65,"duration_ms":619.44,"timestamp":"2026-09-22 14:46:39"}

[2026-09-22 14:46:39] local.INFO: notify_expiring_customer_completed {"subscription_id":65,"customer_id":56,"expires_at":"2026-09-24 23:59:59","duration_ms":623.08,"status":"success"}

[2026-09-22 14:46:40] local.INFO: subscription_expiring_notified
```

```
{"customer_id":57,"subscription_id":66,"duration_ms":64
1.96,"timestamp":"2026-09-22 14:46:40"}

[2026-09-22            14:46:40]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":66,"customer_id":57,"expires_at":"20
26-09-24
23:59:59","duration_ms":646.92,"status":"success"}

[2026-09-22            14:46:41]            local.INFO:
subscription_expiring_notified
{"customer_id":58,"subscription_id":67,"duration_ms":64
0.93,"timestamp":"2026-09-22 14:46:41"}

[2026-09-22            14:46:41]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":67,"customer_id":58,"expires_at":"20
26-09-24
23:59:59","duration_ms":645.05,"status":"success"}

[2026-09-22            14:46:41]            local.INFO:
subscription_expiring_notified
{"customer_id":59,"subscription_id":68,"duration_ms":60
8.82,"timestamp":"2026-09-22 14:46:41"}

[2026-09-22            14:46:41]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":68,"customer_id":59,"expires_at":"20
26-09-24
23:59:59","duration_ms":613.56,"status":"success"}

[2026-09-22            14:46:42]            local.INFO:
subscription_expiring_notified
{"customer_id":60,"subscription_id":69,"duration_ms":63
2.38,"timestamp":"2026-09-22 14:46:42"}

[2026-09-22            14:46:42]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":69,"customer_id":60,"expires_at":"20
26-09-24
23:59:59","duration_ms":636.46,"status":"success"}

[2026-09-22            14:46:42]            local.INFO:
subscription_expiring_notified
{"customer_id":61,"subscription_id":70,"duration_ms":60
8.62,"timestamp":"2026-09-22 14:46:42"}
```

```
[2026-09-22 14:46:43] local.INFO:
notify_expiring_customer_completed
{"subscription_id":70,"customer_id":61,"expires_at":"20
26-09-24
23:59:59","duration_ms":612.83,"status":"success"}

[2026-09-22 14:46:43] local.INFO:
subscription_expiring_notified
{"customer_id":62,"subscription_id":71,"duration_ms":60
2.97,"timestamp":"2026-09-22 14:46:43"}

[2026-09-22 14:46:43] local.INFO:
notify_expiring_customer_completed
{"subscription_id":71,"customer_id":62,"expires_at":"20
26-09-24
23:59:59","duration_ms":607.15,"status":"success"}

[2026-09-22 14:46:44] local.INFO:
subscription_expiring_notified
{"customer_id":63,"subscription_id":72,"duration_ms":60
1.98,"timestamp":"2026-09-22 14:46:44"}

[2026-09-22 14:46:44] local.INFO:
notify_expiring_customer_completed
{"subscription_id":72,"customer_id":63,"expires_at":"20
26-09-24
23:59:59","duration_ms":609.34,"status":"success"}

[2026-09-22 14:46:44] local.INFO:
subscription_expiring_notified
{"customer_id":64,"subscription_id":73,"duration_ms":59
8.28,"timestamp":"2026-09-22 14:46:44"}

[2026-09-22 14:46:44] local.INFO:
notify_expiring_customer_completed
{"subscription_id":73,"customer_id":64,"expires_at":"20
26-09-24
23:59:59","duration_ms":602.2,"status":"success"}

[2026-09-22 14:46:45] local.INFO:
subscription_expiring_notified
{"customer_id":65,"subscription_id":74,"duration_ms":65
5.44,"timestamp":"2026-09-22 14:46:45"}

[2026-09-22 14:46:45] local.INFO:
notify_expiring_customer_completed
{"subscription_id":74,"customer_id":65,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":658.99,"status":"success"}

[2026-09-22            14:46:46]            local.INFO:
subscription_expiring_notified
{"customer_id":66,"subscription_id":75,"duration_ms":62
7.26,"timestamp":"2026-09-22 14:46:46"}

[2026-09-22            14:46:46]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":75,"customer_id":66,"expires_at":"20
26-09-24
23:59:59","duration_ms":630.69,"status":"success"}

[2026-09-22            14:46:46]            local.INFO:
subscription_expiring_notified
{"customer_id":67,"subscription_id":76,"duration_ms":60
3.66,"timestamp":"2026-09-22 14:46:46"}

[2026-09-22            14:46:46]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":76,"customer_id":67,"expires_at":"20
26-09-24
23:59:59","duration_ms":607.44,"status":"success"}

[2026-09-22            14:46:47]            local.INFO:
subscription_expiring_notified
{"customer_id":68,"subscription_id":77,"duration_ms":60
0.56,"timestamp":"2026-09-22 14:46:47"}

[2026-09-22            14:46:47]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":77,"customer_id":68,"expires_at":"20
26-09-24
23:59:59","duration_ms":604.7,"status":"success"}

[2026-09-22            14:46:47]            local.INFO:
subscription_expiring_notified
{"customer_id":69,"subscription_id":78,"duration_ms":64
0.08,"timestamp":"2026-09-22 14:46:47"}

[2026-09-22            14:46:47]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":78,"customer_id":69,"expires_at":"20
26-09-24
23:59:59","duration_ms":643.97,"status":"success"}
```

```
[2026-09-22 14:46:48] local.INFO: subscription_expiring_notified {"customer_id":70,"subscription_id":79,"duration_ms":727.36,"timestamp":"2026-09-22 14:46:48"}

[2026-09-22 14:46:48] local.INFO: notify_expiring_customer_completed {"subscription_id":79,"customer_id":70,"expires_at":"2026-09-24 23:59:59","duration_ms":731.84,"status":"success"}

[2026-09-22 14:46:49] local.INFO: subscription_expiring_notified {"customer_id":71,"subscription_id":80,"duration_ms":656.87,"timestamp":"2026-09-22 14:46:49"}

[2026-09-22 14:46:49] local.INFO: notify_expiring_customer_completed {"subscription_id":80,"customer_id":71,"expires_at":"2026-09-24 23:59:59","duration_ms":660.88,"status":"success"}

[2026-09-22 14:46:50] local.INFO: subscription_expiring_notified {"customer_id":72,"subscription_id":81,"duration_ms":652.34,"timestamp":"2026-09-22 14:46:50"}

[2026-09-22 14:46:50] local.INFO: notify_expiring_customer_completed {"subscription_id":81,"customer_id":72,"expires_at":"2026-09-24 23:59:59","duration_ms":656.65,"status":"success"}

[2026-09-22 14:46:50] local.INFO: subscription_expiring_notified {"customer_id":73,"subscription_id":82,"duration_ms":636.41,"timestamp":"2026-09-22 14:46:50"}

[2026-09-22 14:46:50] local.INFO: notify_expiring_customer_completed {"subscription_id":82,"customer_id":73,"expires_at":"2026-09-24 23:59:59","duration_ms":641.32,"status":"success"}

[2026-09-22 14:46:51] local.INFO: subscription_expiring_notified
```

```
{"customer_id":74,"subscription_id":83,"duration_ms":62
4.85,"timestamp":"2026-09-22 14:46:51"}

[2026-09-22            14:46:51]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":83,"customer_id":74,"expires_at":"20
26-09-24
23:59:59","duration_ms":629.98,"status":"success"}

[2026-09-22            14:46:51]            local.INFO:
subscription_expiring_notified
{"customer_id":75,"subscription_id":84,"duration_ms":65
7.44,"timestamp":"2026-09-22 14:46:51"}

[2026-09-22            14:46:51]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":84,"customer_id":75,"expires_at":"20
26-09-24
23:59:59","duration_ms":661.34,"status":"success"}

[2026-09-22            14:46:52]            local.INFO:
subscription_expiring_notified
{"customer_id":76,"subscription_id":85,"duration_ms":62
5.07,"timestamp":"2026-09-22 14:46:52"}

[2026-09-22            14:46:52]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":85,"customer_id":76,"expires_at":"20
26-09-24
23:59:59","duration_ms":632.05,"status":"success"}

[2026-09-22            14:46:53]            local.INFO:
subscription_expiring_notified
{"customer_id":77,"subscription_id":86,"duration_ms":60
9.39,"timestamp":"2026-09-22 14:46:53"}

[2026-09-22            14:46:53]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":86,"customer_id":77,"expires_at":"20
26-09-24
23:59:59","duration_ms":613.93,"status":"success"}

[2026-09-22            14:46:53]            local.INFO:
subscription_expiring_notified
{"customer_id":78,"subscription_id":87,"duration_ms":60
2.43,"timestamp":"2026-09-22 14:46:53"}
```

```
[2026-09-22 14:46:53] local.INFO:
notify_expiring_customer_completed
{"subscription_id":87,"customer_id":78,"expires_at":"20
26-09-24
23:59:59","duration_ms":606.93,"status":"success"}

[2026-09-22 14:46:54] local.INFO:
subscription_expiring_notified
{"customer_id":79,"subscription_id":88,"duration_ms":61
0.82,"timestamp":"2026-09-22 14:46:54"}

[2026-09-22 14:46:54] local.INFO:
notify_expiring_customer_completed
{"subscription_id":88,"customer_id":79,"expires_at":"20
26-09-24
23:59:59","duration_ms":614.49,"status":"success"}

[2026-09-22 14:46:55] local.INFO:
subscription_expiring_notified
{"customer_id":80,"subscription_id":89,"duration_ms":63
3.69,"timestamp":"2026-09-22 14:46:55"}

[2026-09-22 14:46:55] local.INFO:
notify_expiring_customer_completed
{"subscription_id":89,"customer_id":80,"expires_at":"20
26-09-24
23:59:59","duration_ms":637.6,"status":"success"}

[2026-09-22 14:46:56] local.INFO:
subscription_expiring_notified
{"customer_id":81,"subscription_id":90,"duration_ms":94
5.98,"timestamp":"2026-09-22 14:46:56"}

[2026-09-22 14:46:56] local.INFO:
notify_expiring_customer_completed
{"subscription_id":90,"customer_id":81,"expires_at":"20
26-09-24
23:59:59","duration_ms":951.34,"status":"success"}

[2026-09-22 14:46:56] local.INFO:
subscription_expiring_notified
{"customer_id":82,"subscription_id":91,"duration_ms":68
0.69,"timestamp":"2026-09-22 14:46:56"}

[2026-09-22 14:46:56] local.INFO:
notify_expiring_customer_completed
{"subscription_id":91,"customer_id":82,"expires_at":"20
```

```
26-09-24
23:59:59","duration_ms":684.67,"status":"success"}

[2026-09-22            14:46:57]            local.INFO:
subscription_expiring_notified
{"customer_id":83,"subscription_id":92,"duration_ms":59
9.67,"timestamp":"2026-09-22 14:46:57"}

[2026-09-22            14:46:57]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":92,"customer_id":83,"expires_at":"20
26-09-24
23:59:59","duration_ms":603.71,"status":"success"}

[2026-09-22            14:46:57]            local.INFO:
subscription_expiring_notified
{"customer_id":84,"subscription_id":93,"duration_ms":59
9.46,"timestamp":"2026-09-22 14:46:57"}

[2026-09-22            14:46:57]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":93,"customer_id":84,"expires_at":"20
26-09-24
23:59:59","duration_ms":603.83,"status":"success"}

[2026-09-22            14:46:58]            local.INFO:
subscription_expiring_notified
{"customer_id":85,"subscription_id":94,"duration_ms":59
9.43,"timestamp":"2026-09-22 14:46:58"}

[2026-09-22            14:46:58]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":94,"customer_id":85,"expires_at":"20
26-09-24
23:59:59","duration_ms":604.21,"status":"success"}

[2026-09-22            14:46:59]            local.INFO:
subscription_expiring_notified
{"customer_id":86,"subscription_id":95,"duration_ms":58
9.82,"timestamp":"2026-09-22 14:46:59"}

[2026-09-22            14:46:59]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":95,"customer_id":86,"expires_at":"20
26-09-24
23:59:59","duration_ms":594.82,"status":"success"}
```

```
[2026-09-22 14:46:59] local.INFO: subscription_expiring_notified {"customer_id":87,"subscription_id":96,"duration_ms":605.21,"timestamp":"2026-09-22 14:46:59"}

[2026-09-22 14:46:59] local.INFO: notify_expiring_customer_completed {"subscription_id":96,"customer_id":87,"expires_at":"2026-09-24 23:59:59","duration_ms":608.81,"status":"success"}

[2026-09-22 14:47:00] local.INFO: subscription_expiring_notified {"customer_id":88,"subscription_id":97,"duration_ms":618.81,"timestamp":"2026-09-22 14:47:00"}

[2026-09-22 14:47:00] local.INFO: notify_expiring_customer_completed {"subscription_id":97,"customer_id":88,"expires_at":"2026-09-24 23:59:59","duration_ms":622.76,"status":"success"}

[2026-09-22 14:47:00] local.INFO: subscription_expiring_notified {"customer_id":89,"subscription_id":98,"duration_ms":581.88,"timestamp":"2026-09-22 14:47:00"}

[2026-09-22 14:47:00] local.INFO: notify_expiring_customer_completed {"subscription_id":98,"customer_id":89,"expires_at":"2026-09-24 23:59:59","duration_ms":585.74,"status":"success"}

[2026-09-22 14:47:01] local.INFO: subscription_expiring_notified {"customer_id":90,"subscription_id":99,"duration_ms":655.01,"timestamp":"2026-09-22 14:47:01"}

[2026-09-22 14:47:01] local.INFO: notify_expiring_customer_completed {"subscription_id":99,"customer_id":90,"expires_at":"2026-09-24 23:59:59","duration_ms":659.63,"status":"success"}

[2026-09-22 14:47:02] local.INFO: subscription_expiring_notified
```

```
{"customer_id":91,"subscription_id":100,"duration_ms":6
81.34,"timestamp":"2026-09-22 14:47:02"}

[2026-09-22            14:47:02]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":100,"customer_id":91,"expires_at":"2
026-09-24
23:59:59","duration_ms":685.26,"status":"success"}

[2026-09-22            14:47:03]            local.INFO:
subscription_expiring_notified
{"customer_id":92,"subscription_id":101,"duration_ms":7
44.43,"timestamp":"2026-09-22 14:47:03"}

[2026-09-22            14:47:03]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":101,"customer_id":92,"expires_at":"2
026-09-24
23:59:59","duration_ms":750.63,"status":"success"}

[2026-09-22            14:47:03]            local.INFO:
subscription_expiring_notified
{"customer_id":93,"subscription_id":102,"duration_ms":7
12.91,"timestamp":"2026-09-22 14:47:03"}

[2026-09-22            14:47:03]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":102,"customer_id":93,"expires_at":"2
026-09-24
23:59:59","duration_ms":716.33,"status":"success"}

[2026-09-22            14:47:04]            local.INFO:
subscription_expiring_notified
{"customer_id":94,"subscription_id":103,"duration_ms":6
08.06,"timestamp":"2026-09-22 14:47:04"}

[2026-09-22            14:47:04]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":103,"customer_id":94,"expires_at":"2
026-09-24
23:59:59","duration_ms":612.25,"status":"success"}

[2026-09-22            14:47:04]            local.INFO:
subscription_expiring_notified
{"customer_id":95,"subscription_id":104,"duration_ms":6
22.89,"timestamp":"2026-09-22 14:47:04"}
```

```
[2026-09-22 14:47:04] local.INFO: notify_expiring_customer_completed {"subscription_id":104,"customer_id":95,"expires_at":"2026-09-24 23:59:59","duration_ms":627.47,"status":"success"}

[2026-09-22 14:47:05] local.INFO: subscription_expiring_notified {"customer_id":96,"subscription_id":105,"duration_ms":610.96,"timestamp":"2026-09-22 14:47:05"}

[2026-09-22 14:47:05] local.INFO: notify_expiring_customer_completed {"subscription_id":105,"customer_id":96,"expires_at":"2026-09-24 23:59:59","duration_ms":615.1,"status":"success"}

[2026-09-22 14:47:06] local.INFO: subscription_expiring_notified {"customer_id":97,"subscription_id":106,"duration_ms":472.16,"timestamp":"2026-09-22 14:47:06"}

[2026-09-22 14:47:06] local.INFO: notify_expiring_customer_completed {"subscription_id":106,"customer_id":97,"expires_at":"2026-09-24 23:59:59","duration_ms":475.89,"status":"success"}

[2026-09-22 14:47:06] local.INFO: subscription_expiring_notified {"customer_id":98,"subscription_id":107,"duration_ms":495.78,"timestamp":"2026-09-22 14:47:06"}

[2026-09-22 14:47:06] local.INFO: notify_expiring_customer_completed {"subscription_id":107,"customer_id":98,"expires_at":"2026-09-24 23:59:59","duration_ms":500.29,"status":"success"}

[2026-09-22 14:47:07] local.INFO: subscription_expiring_notified {"customer_id":99,"subscription_id":108,"duration_ms":480.59,"timestamp":"2026-09-22 14:47:07"}

[2026-09-22 14:47:07] local.INFO: notify_expiring_customer_completed {"subscription_id":108,"customer_id":99,"expires_at":"2
```

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026-09-24
23:59:59","duration_ms":485.16,"status":"success"}

[2026-09-22            14:47:07]            local.INFO:
subscription_expiring_notified
{"customer_id":100,"subscription_id":109,"duration_ms":
474.31,"timestamp":"2026-09-22 14:47:07"}

[2026-09-22            14:47:07]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":109,"customer_id":100,"expires_at":"
2026-09-24
23:59:59","duration_ms":479.0,"status":"success"}

[2026-09-22            14:47:07]            local.INFO:
subscription_expiring_notified
{"customer_id":101,"subscription_id":110,"duration_ms":
472.21,"timestamp":"2026-09-22 14:47:07"}

[2026-09-22            14:47:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":110,"customer_id":101,"expires_at":"
2026-09-24
23:59:59","duration_ms":476.6,"status":"success"}

[2026-09-22            14:47:08]            local.INFO:
subscription_expiring_notified
{"customer_id":102,"subscription_id":111,"duration_ms":
511.43,"timestamp":"2026-09-22 14:47:08"}

[2026-09-22            14:47:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":111,"customer_id":102,"expires_at":"
2026-09-24
23:59:59","duration_ms":515.69,"status":"success"}

[2026-09-22            14:47:08]            local.INFO:
subscription_expiring_notified
{"customer_id":103,"subscription_id":112,"duration_ms":
469.64,"timestamp":"2026-09-22 14:47:08"}

[2026-09-22            14:47:08]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":112,"customer_id":103,"expires_at":"
2026-09-24
23:59:59","duration_ms":474.16,"status":"success"}
```

```
[2026-09-22 14:47:09] local.INFO: subscription_expiring_notified {"customer_id":104,"subscription_id":113,"duration_ms":492.88,"timestamp":"2026-09-22 14:47:09"}

[2026-09-22 14:47:09] local.INFO: notify_expiring_customer_completed {"subscription_id":113,"customer_id":104,"expires_at":"2026-09-24 23:59:59","duration_ms":496.95,"status":"success"}

[2026-09-22 14:47:09] local.INFO: subscription_expiring_notified {"customer_id":105,"subscription_id":114,"duration_ms":466.09,"timestamp":"2026-09-22 14:47:09"}

[2026-09-22 14:47:09] local.INFO: notify_expiring_customer_completed {"subscription_id":114,"customer_id":105,"expires_at":"2026-09-24 23:59:59","duration_ms":470.22,"status":"success"}

[2026-09-22 14:47:10] local.INFO: subscription_expiring_notified {"customer_id":106,"subscription_id":115,"duration_ms":490.99,"timestamp":"2026-09-22 14:47:10"}

[2026-09-22 14:47:10] local.INFO: notify_expiring_customer_completed {"subscription_id":115,"customer_id":106,"expires_at":"2026-09-24 23:59:59","duration_ms":494.33,"status":"success"}

[2026-09-22 14:47:10] local.INFO: subscription_expiring_notified {"customer_id":107,"subscription_id":116,"duration_ms":477.26,"timestamp":"2026-09-22 14:47:10"}

[2026-09-22 14:47:10] local.INFO: notify_expiring_customer_completed {"subscription_id":116,"customer_id":107,"expires_at":"2026-09-24 23:59:59","duration_ms":482.89,"status":"success"}

[2026-09-22 14:47:11] local.INFO: subscription_expiring_notified
```

```
{"customer_id":108,"subscription_id":117,"duration_ms":
452.49,"timestamp":"2026-09-22 14:47:11"}

[2026-09-22              14:47:11]              local.INFO:
notify_expiring_customer_completed
{"subscription_id":117,"customer_id":108,"expires_at":"
2026-09-24
23:59:59","duration_ms":456.86,"status":"success"}

[2026-09-22              14:47:11]              local.INFO:
subscription_expiring_notified
{"customer_id":109,"subscription_id":118,"duration_ms":
473.75,"timestamp":"2026-09-22 14:47:11"}

[2026-09-22              14:47:11]              local.INFO:
notify_expiring_customer_completed
{"subscription_id":118,"customer_id":109,"expires_at":"
2026-09-24
23:59:59","duration_ms":477.52,"status":"success"}

[2026-09-22              14:47:12]              local.INFO:
subscription_expiring_notified
{"customer_id":110,"subscription_id":119,"duration_ms":
468.76,"timestamp":"2026-09-22 14:47:12"}

[2026-09-22              14:47:12]              local.INFO:
notify_expiring_customer_completed
{"subscription_id":119,"customer_id":110,"expires_at":"
2026-09-24
23:59:59","duration_ms":472.31,"status":"success"}

[2026-09-22              14:47:12]              local.INFO:
subscription_expiring_notified
{"customer_id":111,"subscription_id":120,"duration_ms":
475.03,"timestamp":"2026-09-22 14:47:12"}

[2026-09-22              14:47:12]              local.INFO:
notify_expiring_customer_completed
{"subscription_id":120,"customer_id":111,"expires_at":"
2026-09-24
23:59:59","duration_ms":478.69,"status":"success"}

[2026-09-22              14:47:13]              local.INFO:
subscription_expiring_notified
{"customer_id":112,"subscription_id":121,"duration_ms":
466.5,"timestamp":"2026-09-22 14:47:13"}
```

```
[2026-09-22 14:47:13] local.INFO: notify_expiring_customer_completed {"subscription_id":121,"customer_id":112,"expires_at":"2026-09-24 23:59:59","duration_ms":470.61,"status":"success"}

[2026-09-22 14:47:13] local.INFO: subscription_expiring_notified {"customer_id":113,"subscription_id":122,"duration_ms":470.39,"timestamp":"2026-09-22 14:47:13"}

[2026-09-22 14:47:13] local.INFO: notify_expiring_customer_completed {"subscription_id":122,"customer_id":113,"expires_at":"2026-09-24 23:59:59","duration_ms":475.23,"status":"success"}

[2026-09-22 14:47:14] local.INFO: subscription_expiring_notified {"customer_id":114,"subscription_id":123,"duration_ms":488.98,"timestamp":"2026-09-22 14:47:14"}

[2026-09-22 14:47:14] local.INFO: notify_expiring_customer_completed {"subscription_id":123,"customer_id":114,"expires_at":"2026-09-24 23:59:59","duration_ms":493.44,"status":"success"}

[2026-09-22 14:47:14] local.INFO: subscription_expiring_notified {"customer_id":115,"subscription_id":124,"duration_ms":464.0,"timestamp":"2026-09-22 14:47:14"}

[2026-09-22 14:47:14] local.INFO: notify_expiring_customer_completed {"subscription_id":124,"customer_id":115,"expires_at":"2026-09-24 23:59:59","duration_ms":468.11,"status":"success"}

[2026-09-22 14:47:15] local.INFO: subscription_expiring_notified {"customer_id":116,"subscription_id":125,"duration_ms":472.2,"timestamp":"2026-09-22 14:47:15"}

[2026-09-22 14:47:15] local.INFO: notify_expiring_customer_completed {"subscription_id":125,"customer_id":116,"expires_at":"
```

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2026-09-24
23:59:59","duration_ms":476.4,"status":"success"}

[2026-09-22            14:47:15]            local.INFO:
subscription_expiring_notified
{"customer_id":117,"subscription_id":126,"duration_ms":
474.52,"timestamp":"2026-09-22 14:47:15"}

[2026-09-22            14:47:15]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":126,"customer_id":117,"expires_at":"
2026-09-24
23:59:59","duration_ms":477.82,"status":"success"}

[2026-09-22            14:47:16]            local.INFO:
subscription_expiring_notified
{"customer_id":118,"subscription_id":127,"duration_ms":
703.36,"timestamp":"2026-09-22 14:47:16"}

[2026-09-22            14:47:16]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":127,"customer_id":118,"expires_at":"
2026-09-24
23:59:59","duration_ms":706.88,"status":"success"}

[2026-09-22            14:47:17]            local.INFO:
subscription_expiring_notified
{"customer_id":119,"subscription_id":128,"duration_ms":
706.16,"timestamp":"2026-09-22 14:47:17"}

[2026-09-22            14:47:17]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":128,"customer_id":119,"expires_at":"
2026-09-24
23:59:59","duration_ms":710.67,"status":"success"}

[2026-09-22            14:47:17]            local.INFO:
subscription_expiring_notified
{"customer_id":120,"subscription_id":129,"duration_ms":
485.46,"timestamp":"2026-09-22 14:47:17"}

[2026-09-22            14:47:17]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":129,"customer_id":120,"expires_at":"
2026-09-24
23:59:59","duration_ms":490.42,"status":"success"}
```

```
[2026-09-22 14:47:18] local.INFO: subscription_expiring_notified {"customer_id":121,"subscription_id":130,"duration_ms":475.69,"timestamp":"2026-09-22 14:47:18"}

[2026-09-22 14:47:18] local.INFO: notify_expiring_customer_completed {"subscription_id":130,"customer_id":121,"expires_at":"2026-09-24 23:59:59","duration_ms":480.42,"status":"success"}

[2026-09-22 14:47:18] local.INFO: subscription_expiring_notified {"customer_id":122,"subscription_id":131,"duration_ms":519.73,"timestamp":"2026-09-22 14:47:18"}

[2026-09-22 14:47:18] local.INFO: notify_expiring_customer_completed {"subscription_id":131,"customer_id":122,"expires_at":"2026-09-24 23:59:59","duration_ms":525.3,"status":"success"}

[2026-09-22 14:47:19] local.INFO: subscription_expiring_notified {"customer_id":123,"subscription_id":132,"duration_ms":509.9,"timestamp":"2026-09-22 14:47:19"}

[2026-09-22 14:47:19] local.INFO: notify_expiring_customer_completed {"subscription_id":132,"customer_id":123,"expires_at":"2026-09-24 23:59:59","duration_ms":513.76,"status":"success"}

[2026-09-22 14:47:19] local.INFO: subscription_expiring_notified {"customer_id":124,"subscription_id":133,"duration_ms":490.22,"timestamp":"2026-09-22 14:47:19"}

[2026-09-22 14:47:19] local.INFO: notify_expiring_customer_completed {"subscription_id":133,"customer_id":124,"expires_at":"2026-09-24 23:59:59","duration_ms":493.79,"status":"success"}

[2026-09-22 14:47:20] local.INFO: subscription_expiring_notified
```

```
{"customer_id":125,"subscription_id":134,"duration_ms":
474.24,"timestamp":"2026-09-22 14:47:20"}

[2026-09-22            14:47:20]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":134,"customer_id":125,"expires_at":"
2026-09-24
23:59:59","duration_ms":477.74,"status":"success"}

[2026-09-22            14:47:20]            local.INFO:
subscription_expiring_notified
{"customer_id":126,"subscription_id":135,"duration_ms":
505.46,"timestamp":"2026-09-22 14:47:20"}

[2026-09-22            14:47:20]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":135,"customer_id":126,"expires_at":"
2026-09-24
23:59:59","duration_ms":508.9,"status":"success"}

[2026-09-22            14:47:21]            local.INFO:
subscription_expiring_notified
{"customer_id":127,"subscription_id":136,"duration_ms":
553.11,"timestamp":"2026-09-22 14:47:21"}

[2026-09-22            14:47:21]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":136,"customer_id":127,"expires_at":"
2026-09-24
23:59:59","duration_ms":558.37,"status":"success"}

[2026-09-22            14:47:21]            local.INFO:
subscription_expiring_notified
{"customer_id":128,"subscription_id":137,"duration_ms":
527.86,"timestamp":"2026-09-22 14:47:21"}

[2026-09-22            14:47:21]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":137,"customer_id":128,"expires_at":"
2026-09-24
23:59:59","duration_ms":532.29,"status":"success"}

[2026-09-22            14:47:22]            local.INFO:
subscription_expiring_notified
{"customer_id":129,"subscription_id":138,"duration_ms":
490.57,"timestamp":"2026-09-22 14:47:22"}
```

```
[2026-09-22 14:47:22] local.INFO:
notify_expiring_customer_completed
{"subscription_id":138,"customer_id":129,"expires_at":"
2026-09-24
23:59:59","duration_ms":495.08,"status":"success"}

[2026-09-22 14:47:22] local.INFO:
subscription_expiring_notified
{"customer_id":130,"subscription_id":139,"duration_ms":
496.68,"timestamp":"2026-09-22 14:47:22"}

[2026-09-22 14:47:22] local.INFO:
notify_expiring_customer_completed
{"subscription_id":139,"customer_id":130,"expires_at":"
2026-09-24
23:59:59","duration_ms":501.4,"status":"success"}

[2026-09-22 14:47:23] local.INFO:
subscription_expiring_notified
{"customer_id":131,"subscription_id":140,"duration_ms":
525.69,"timestamp":"2026-09-22 14:47:23"}

[2026-09-22 14:47:23] local.INFO:
notify_expiring_customer_completed
{"subscription_id":140,"customer_id":131,"expires_at":"
2026-09-24
23:59:59","duration_ms":532.78,"status":"success"}

[2026-09-22 14:47:23] local.INFO:
subscription_expiring_notified
{"customer_id":132,"subscription_id":141,"duration_ms":
491.45,"timestamp":"2026-09-22 14:47:23"}

[2026-09-22 14:47:23] local.INFO:
notify_expiring_customer_completed
{"subscription_id":141,"customer_id":132,"expires_at":"
2026-09-24
23:59:59","duration_ms":496.44,"status":"success"}

[2026-09-22 14:47:24] local.INFO:
subscription_expiring_notified
{"customer_id":133,"subscription_id":142,"duration_ms":
529.37,"timestamp":"2026-09-22 14:47:24"}

[2026-09-22 14:47:24] local.INFO:
notify_expiring_customer_completed
{"subscription_id":142,"customer_id":133,"expires_at":"
```

```
2026-09-24
23:59:59","duration_ms":533.29,"status":"success"}

[2026-09-22            14:47:24]            local.INFO:
subscription_expiring_notified
{"customer_id":134,"subscription_id":143,"duration_ms":
479.04,"timestamp":"2026-09-22 14:47:24"}

[2026-09-22            14:47:24]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":143,"customer_id":134,"expires_at":"
2026-09-24
23:59:59","duration_ms":482.89,"status":"success"}

[2026-09-22            14:47:25]            local.INFO:
subscription_expiring_notified
{"customer_id":135,"subscription_id":144,"duration_ms":
478.86,"timestamp":"2026-09-22 14:47:25"}

[2026-09-22            14:47:25]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":144,"customer_id":135,"expires_at":"
2026-09-24
23:59:59","duration_ms":482.55,"status":"success"}

[2026-09-22            14:47:25]            local.INFO:
subscription_expiring_notified
{"customer_id":136,"subscription_id":145,"duration_ms":
501.66,"timestamp":"2026-09-22 14:47:25"}

[2026-09-22            14:47:25]            local.INFO:
notify_expiring_customer_completed
{"subscription_id":145,"customer_id":136,"expires_at":"
2026-09-24
23:59:59","duration_ms":505.54,"status":"success"}

[2026-09-22            14:47:25]            local.INFO:
notify_expiring_job_completed  {"target_date":"2026-09-
24","total_processed":100,"total_notified":100,"total_f
ailed":0,"total_duration_ms":58562.15,"total_duration_s
econds":58.56,"completed_at":"2026-09-22 14:47:25"}
```

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[2026-09-22 14:17:39] local.INFO: suspend_expired_job_started {"started_at":"2026-09-22 14:17:39"}
[2026-09-22 14:17:39] local.INFO: suspend_expired_checking {"condition":"status = active AND expires_at < now()","checking_at":"2026-09-22 14:17:39"}
[2026-09-22 14:17:39] local.INFO: suspend_expired_job_completed {"total_checked":0,"total_suspended":0,"total_failed":0,"total_duration_ms":60.46,"total_duration_sec":0.06,"completed_at":"2026-09-22 14:17:39"}
[2026-09-22 14:21:16] local.INFO: suspend_expired_job_started {"started_at":"2026-09-22 14:21:16"}
[2026-09-22 14:21:16] local.INFO: suspend_expired_checking {"condition":"status = active AND expires_at < now()","checking_at":"2026-09-22 14:21:16"}
[2026-09-22 14:21:16] local.INFO: suspend_expired_customer_started {"subscription_id":273,"customer_id":37,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:16"}
[2026-09-22 14:21:16] local.INFO: suspend_expired_customer_completed {"subscription_id":273,"customer_id":37,"expires_at":"2026-09-21 14:20:48","duration_ms":640.18,"status":"success","completed_at":"2026-09-22 14:21:16"}
[2026-09-22 14:21:16] local.INFO: suspend_expired_customer_started {"subscription_id":274,"customer_id":38,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:16"}
```

```
[2026-09-22 14:21:17] local.INFO:
suspend_expired_customer_completed
{"subscription_id":274,"customer_id":38,"expires_at":"2
026-09-21
14:20:48","duration_ms":433.67,"status":"success","comp
leted_at":"2026-09-22 14:21:17"}

[2026-09-22 14:21:17] local.INFO:
suspend_expired_customer_started
{"subscription_id":275,"customer_id":39,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:17"}

[2026-09-22 14:21:17] local.INFO:
suspend_expired_customer_completed
{"subscription_id":275,"customer_id":39,"expires_at":"2
026-09-21
14:20:48","duration_ms":421.52,"status":"success","comp
leted_at":"2026-09-22 14:21:17"}

[2026-09-22 14:21:17] local.INFO:
suspend_expired_customer_started
{"subscription_id":276,"customer_id":40,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:17"}

[2026-09-22 14:21:18] local.INFO:
suspend_expired_customer_completed
{"subscription_id":276,"customer_id":40,"expires_at":"2
026-09-21
14:20:48","duration_ms":395.0,"status":"success","compl
eted_at":"2026-09-22 14:21:18"}


[2026-09-22 14:21:18] local.INFO:
suspend_expired_customer_started
{"subscription_id":277,"customer_id":41,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:18"}

[2026-09-22 14:21:18] local.INFO:
suspend_expired_customer_completed
{"subscription_id":277,"customer_id":41,"expires_at":"2
026-09-21
14:20:48","duration_ms":404.06,"status":"success","comp
leted_at":"2026-09-22 14:21:18"}

[2026-09-22 14:21:18] local.INFO:
suspend_expired_customer_started
```

```
{"subscription_id":278,"customer_id":42,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:18"}

[2026-09-22            14:21:18]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":278,"customer_id":42,"expires_at":"2
026-09-21
14:20:48","duration_ms":401.68,"status":"success","comp
leted_at":"2026-09-22 14:21:18"}

[2026-09-22            14:21:18]            local.INFO:
suspend_expired_customer_started
{"subscription_id":279,"customer_id":43,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:18"}

[2026-09-22            14:21:19]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":279,"customer_id":43,"expires_at":"2
026-09-21
14:20:48","duration_ms":459.48,"status":"success","comp
leted_at":"2026-09-22 14:21:19"}

[2026-09-22            14:21:19]            local.INFO:
suspend_expired_customer_started
{"subscription_id":280,"customer_id":44,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:19"}

[2026-09-22            14:21:19]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":280,"customer_id":44,"expires_at":"2
026-09-21
14:20:48","duration_ms":461.57,"status":"success","comp
leted_at":"2026-09-22 14:21:19"}

[2026-09-22            14:21:19]            local.INFO:
suspend_expired_customer_started
{"subscription_id":281,"customer_id":45,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:19"}

[2026-09-22            14:21:20]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":281,"customer_id":45,"expires_at":"2
026-09-21
14:20:48","duration_ms":481.14,"status":"success","comp
leted_at":"2026-09-22 14:21:20"}
```

```
[2026-09-22 14:21:20] local.INFO: suspend_expired_customer_started {"subscription_id":282,"customer_id":46,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:20"}

[2026-09-22 14:21:20] local.INFO: suspend_expired_customer_completed {"subscription_id":282,"customer_id":46,"expires_at":"2026-09-21 14:20:48","duration_ms":417.51,"status":"success","completed_at":"2026-09-22 14:21:20"}

[2026-09-22 14:21:20] local.INFO: suspend_expired_customer_started {"subscription_id":283,"customer_id":47,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:20"}

[2026-09-22 14:21:21] local.INFO: suspend_expired_customer_completed {"subscription_id":283,"customer_id":47,"expires_at":"2026-09-21 14:20:48","duration_ms":473.07,"status":"success","completed_at":"2026-09-22 14:21:21"}

[2026-09-22 14:21:21] local.INFO: suspend_expired_customer_started {"subscription_id":284,"customer_id":48,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:21"}

[2026-09-22 14:21:21] local.INFO: suspend_expired_customer_completed {"subscription_id":284,"customer_id":48,"expires_at":"2026-09-21 14:20:48","duration_ms":437.47,"status":"success","completed_at":"2026-09-22 14:21:21"}

[2026-09-22 14:21:21] local.INFO: suspend_expired_customer_started {"subscription_id":285,"customer_id":49,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:21"}

[2026-09-22 14:21:22] local.INFO: suspend_expired_customer_completed {"subscription_id":285,"customer_id":49,"expires_at":"2026-09-21 14:20:48","duration_ms":485.79,"status":"success","completed_at":"2026-09-22 14:21:22"}
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[2026-09-22 14:21:22] local.INFO:
suspend_expired_customer_started
{"subscription_id":286,"customer_id":50,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:22"}

[2026-09-22 14:21:22] local.INFO:
suspend_expired_customer_completed
{"subscription_id":286,"customer_id":50,"expires_at":"2
026-09-21
14:20:48","duration_ms":395.23,"status":"success","comp
leted_at":"2026-09-22 14:21:22"}

[2026-09-22 14:21:22] local.INFO:
suspend_expired_customer_started
{"subscription_id":287,"customer_id":51,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:22"}

[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_completed
{"subscription_id":287,"customer_id":51,"expires_at":"2
026-09-21
14:20:48","duration_ms":465.12,"status":"success","comp
leted_at":"2026-09-22 14:21:23"}

[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_started
{"subscription_id":288,"customer_id":52,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:23"}

[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_completed
{"subscription_id":288,"customer_id":52,"expires_at":"2
026-09-21
14:20:48","duration_ms":432.38,"status":"success","comp
leted_at":"2026-09-22 14:21:23"}

[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_started
{"subscription_id":289,"customer_id":53,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:23"}

[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_completed
{"subscription_id":289,"customer_id":53,"expires_at":"2
026-09-21
14:20:48","duration_ms":403.41,"status":"success","comp
leted_at":"2026-09-22 14:21:23"}
```

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[2026-09-22 14:21:23] local.INFO:
suspend_expired_customer_started
{"subscription_id":290,"customer_id":54,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:23"}

[2026-09-22 14:21:24] local.INFO:
suspend_expired_customer_completed
{"subscription_id":290,"customer_id":54,"expires_at":"2
026-09-21
14:20:48","duration_ms":434.44,"status":"success","comp
leted_at":"2026-09-22 14:21:24"}

[2026-09-22 14:21:24] local.INFO:
suspend_expired_customer_started
{"subscription_id":291,"customer_id":55,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:24"}

[2026-09-22 14:21:24] local.INFO:
suspend_expired_customer_completed
{"subscription_id":291,"customer_id":55,"expires_at":"2
026-09-21
14:20:48","duration_ms":432.07,"status":"success","comp
leted_at":"2026-09-22 14:21:24"}

[2026-09-22 14:21:24] local.INFO:
suspend_expired_customer_started
{"subscription_id":292,"customer_id":56,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:24"}

[2026-09-22 14:21:25] local.INFO:
suspend_expired_customer_completed
{"subscription_id":292,"customer_id":56,"expires_at":"2
026-09-21
14:20:48","duration_ms":423.99,"status":"success","comp
leted_at":"2026-09-22 14:21:25"}

[2026-09-22 14:21:25] local.INFO:
suspend_expired_customer_started
{"subscription_id":293,"customer_id":57,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:25"}

[2026-09-22 14:21:25] local.INFO:
suspend_expired_customer_completed
{"subscription_id":293,"customer_id":57,"expires_at":"2
026-09-21
14:20:48","duration_ms":437.79,"status":"success","comp
leted_at":"2026-09-22 14:21:25"}
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[2026-09-22 14:21:25] local.INFO: suspend_expired_customer_started {"subscription_id":294,"customer_id":58,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:25"}

[2026-09-22 14:21:26] local.INFO: suspend_expired_customer_completed {"subscription_id":294,"customer_id":58,"expires_at":"2026-09-21 14:20:48","duration_ms":489.23,"status":"success","completed_at":"2026-09-22 14:21:26"}

[2026-09-22 14:21:26] local.INFO: suspend_expired_customer_started {"subscription_id":295,"customer_id":59,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:26"}

[2026-09-22 14:21:26] local.INFO: suspend_expired_customer_completed {"subscription_id":295,"customer_id":59,"expires_at":"2026-09-21 14:20:48","duration_ms":520.62,"status":"success","completed_at":"2026-09-22 14:21:26"}

[2026-09-22 14:21:26] local.INFO: suspend_expired_customer_started {"subscription_id":296,"customer_id":60,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:26"}

[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_completed {"subscription_id":296,"customer_id":60,"expires_at":"2026-09-21 14:20:48","duration_ms":440.11,"status":"success","completed_at":"2026-09-22 14:21:27"}

[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_started {"subscription_id":297,"customer_id":61,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:27"}

[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_completed {"subscription_id":297,"customer_id":61,"expires_at":"2026-09-21 14:20:48","duration_ms":480.56,"status":"success","completed_at":"2026-09-22 14:21:27"}
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[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_started {"subscription_id":298,"customer_id":62,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:27"}

[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_completed {"subscription_id":298,"customer_id":62,"expires_at":"2026-09-21 14:20:48","duration_ms":424.39,"status":"success","completed_at":"2026-09-22 14:21:27"}

[2026-09-22 14:21:27] local.INFO: suspend_expired_customer_started {"subscription_id":299,"customer_id":63,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:27"}

[2026-09-22 14:21:28] local.INFO: suspend_expired_customer_completed {"subscription_id":299,"customer_id":63,"expires_at":"2026-09-21 14:20:48","duration_ms":458.14,"status":"success","completed_at":"2026-09-22 14:21:28"}

[2026-09-22 14:21:28] local.INFO: suspend_expired_customer_started {"subscription_id":300,"customer_id":64,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:28"}

[2026-09-22 14:21:28] local.INFO: suspend_expired_customer_completed {"subscription_id":300,"customer_id":64,"expires_at":"2026-09-21 14:20:48","duration_ms":399.85,"status":"success","completed_at":"2026-09-22 14:21:28"}

[2026-09-22 14:21:28] local.INFO: suspend_expired_customer_started {"subscription_id":301,"customer_id":65,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:28"}

[2026-09-22 14:21:29] local.INFO: suspend_expired_customer_completed {"subscription_id":301,"customer_id":65,"expires_at":"2026-09-21 14:20:48","duration_ms":499.79,"status":"success","completed_at":"2026-09-22 14:21:29"}
```

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[2026-09-22 14:21:29] local.INFO: suspend_expired_customer_started {"subscription_id":302,"customer_id":66,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:29"}

[2026-09-22 14:21:30] local.INFO: suspend_expired_customer_completed {"subscription_id":302,"customer_id":66,"expires_at":"2026-09-21 14:20:48","duration_ms":1647.2,"status":"success","completed_at":"2026-09-22 14:21:30"}

[2026-09-22 14:21:30] local.INFO: suspend_expired_customer_started {"subscription_id":303,"customer_id":67,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:30"}

[2026-09-22 14:21:31] local.INFO: suspend_expired_customer_completed {"subscription_id":303,"customer_id":67,"expires_at":"2026-09-21 14:20:48","duration_ms":691.59,"status":"success","completed_at":"2026-09-22 14:21:31"}

[2026-09-22 14:21:31] local.INFO: suspend_expired_customer_started {"subscription_id":304,"customer_id":68,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:31"}

[2026-09-22 14:21:32] local.INFO: suspend_expired_customer_completed {"subscription_id":304,"customer_id":68,"expires_at":"2026-09-21 14:20:48","duration_ms":776.92,"status":"success","completed_at":"2026-09-22 14:21:32"}

[2026-09-22 14:21:32] local.INFO: suspend_expired_customer_started {"subscription_id":305,"customer_id":69,"expires_at":"2026-09-21 14:20:48","started_at":"2026-09-22 14:21:32"}

[2026-09-22 14:21:33] local.INFO: suspend_expired_customer_completed {"subscription_id":305,"customer_id":69,"expires_at":"2026-09-21 14:20:48","duration_ms":1006.68,"status":"success","completed_at":"2026-09-22 14:21:33"}
```

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[2026-09-22 14:21:33] local.INFO:
suspend_expired_customer_started
{"subscription_id":306,"customer_id":70,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:33"}

[2026-09-22 14:21:34] local.INFO:
suspend_expired_customer_completed
{"subscription_id":306,"customer_id":70,"expires_at":"2
026-09-21
14:20:48","duration_ms":769.68,"status":"success","comp
leted_at":"2026-09-22 14:21:34"}

[2026-09-22 14:21:34] local.INFO:
suspend_expired_customer_started
{"subscription_id":307,"customer_id":71,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:34"}

[2026-09-22 14:21:34] local.INFO:
suspend_expired_customer_completed
{"subscription_id":307,"customer_id":71,"expires_at":"2
026-09-21
14:20:48","duration_ms":520.92,"status":"success","comp
leted_at":"2026-09-22 14:21:34"}

[2026-09-22 14:21:34] local.INFO:
suspend_expired_customer_started
{"subscription_id":308,"customer_id":72,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:34"}

[2026-09-22 14:21:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":308,"customer_id":72,"expires_at":"2
026-09-21
14:20:48","duration_ms":815.93,"status":"success","comp
leted_at":"2026-09-22 14:21:35"}

[2026-09-22 14:21:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":309,"customer_id":73,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:35"}

[2026-09-22 14:21:36] local.INFO:
suspend_expired_customer_completed
{"subscription_id":309,"customer_id":73,"expires_at":"2
026-09-21
14:20:48","duration_ms":1098.53,"status":"success","com
pleted_at":"2026-09-22 14:21:36"}
```

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[2026-09-22 14:21:36] local.INFO:
suspend_expired_customer_started
{"subscription_id":310,"customer_id":74,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:36"}

[2026-09-22 14:21:37] local.INFO:
suspend_expired_customer_completed
{"subscription_id":310,"customer_id":74,"expires_at":"2
026-09-21
14:20:48","duration_ms":480.87,"status":"success","comp
leted_at":"2026-09-22 14:21:37"}

[2026-09-22 14:21:37] local.INFO:
suspend_expired_customer_started
{"subscription_id":311,"customer_id":75,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:37"}

[2026-09-22 14:21:37] local.INFO:
suspend_expired_customer_completed
{"subscription_id":311,"customer_id":75,"expires_at":"2
026-09-21
14:20:48","duration_ms":434.6,"status":"success","compl
eted_at":"2026-09-22 14:21:37"}


[2026-09-22 14:21:37] local.INFO:
suspend_expired_customer_started
{"subscription_id":312,"customer_id":76,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:37"}

[2026-09-22 14:21:38] local.INFO:
suspend_expired_customer_completed
{"subscription_id":312,"customer_id":76,"expires_at":"2
026-09-21
14:20:48","duration_ms":564.87,"status":"success","comp
leted_at":"2026-09-22 14:21:38"}

[2026-09-22 14:21:38] local.INFO:
suspend_expired_customer_started
{"subscription_id":313,"customer_id":77,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:38"}

[2026-09-22 14:21:38] local.INFO:
suspend_expired_customer_completed
{"subscription_id":313,"customer_id":77,"expires_at":"2
026-09-21
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14:20:48","duration_ms":423.29,"status":"success","comp
leted_at":"2026-09-22 14:21:38"}

[2026-09-22            14:21:38]           local.INFO:
suspend_expired_customer_started
{"subscription_id":314,"customer_id":78,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:38"}

[2026-09-22            14:21:38]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":314,"customer_id":78,"expires_at":"2
026-09-21
14:20:48","duration_ms":439.53,"status":"success","comp
leted_at":"2026-09-22 14:21:38"}

[2026-09-22            14:21:38]           local.INFO:
suspend_expired_customer_started
{"subscription_id":315,"customer_id":79,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:38"}

[2026-09-22            14:21:39]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":315,"customer_id":79,"expires_at":"2
026-09-21
14:20:48","duration_ms":434.08,"status":"success","comp
leted_at":"2026-09-22 14:21:39"}

[2026-09-22            14:21:39]           local.INFO:
suspend_expired_customer_started
{"subscription_id":316,"customer_id":80,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:39"}

[2026-09-22            14:21:39]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":316,"customer_id":80,"expires_at":"2
026-09-21
14:20:48","duration_ms":399.5,"status":"success","compl
eted_at":"2026-09-22 14:21:39"}


[2026-09-22            14:21:39]           local.INFO:
suspend_expired_customer_started
{"subscription_id":317,"customer_id":81,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:39"}

[2026-09-22            14:21:40]           local.INFO:
suspend_expired_customer_completed
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{"subscription_id":317,"customer_id":81,"expires_at":"2
026-09-21
14:20:48","duration_ms":408.57,"status":"success","comp
leted_at":"2026-09-22 14:21:40"}

[2026-09-22            14:21:40]            local.INFO:
suspend_expired_customer_started
{"subscription_id":318,"customer_id":82,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:40"}

[2026-09-22            14:21:40]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":318,"customer_id":82,"expires_at":"2
026-09-21
14:20:48","duration_ms":410.64,"status":"success","comp
leted_at":"2026-09-22 14:21:40"}

[2026-09-22            14:21:40]            local.INFO:
suspend_expired_customer_started
{"subscription_id":319,"customer_id":83,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:40"}

[2026-09-22            14:21:41]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":319,"customer_id":83,"expires_at":"2
026-09-21
14:20:48","duration_ms":421.67,"status":"success","comp
leted_at":"2026-09-22 14:21:41"}

[2026-09-22            14:21:41]            local.INFO:
suspend_expired_customer_started
{"subscription_id":320,"customer_id":84,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:41"}

[2026-09-22            14:21:41]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":320,"customer_id":84,"expires_at":"2
026-09-21
14:20:48","duration_ms":413.88,"status":"success","comp
leted_at":"2026-09-22 14:21:41"}

[2026-09-22            14:21:41]            local.INFO:
suspend_expired_customer_started
{"subscription_id":321,"customer_id":85,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:41"}
```

```
[2026-09-22 14:21:41] local.INFO:
suspend_expired_customer_completed
{"subscription_id":321,"customer_id":85,"expires_at":"2
026-09-21
14:20:48","duration_ms":400.07,"status":"success","comp
leted_at":"2026-09-22 14:21:41"}

[2026-09-22 14:21:41] local.INFO:
suspend_expired_customer_started
{"subscription_id":322,"customer_id":86,"expires_at":"2
026-09-21 14:20:48","started_at":"2026-09-22 14:21:41"}

[2026-09-22 14:21:42] local.INFO:
suspend_expired_customer_completed
{"subscription_id":322,"customer_id":86,"expires_at":"2
026-09-21
14:20:48","duration_ms":391.41,"status":"success","comp
leted_at":"2026-09-22 14:21:42"}

[2026-09-22 14:21:42] local.INFO:
suspend_expired_job_completed
{"total_checked":50,"total_suspended":50,"total_failed"
:0,"total_duration_ms":26062.28,"total_duration_sec":26
.06,"completed_at":"2026-09-22 14:21:42"}
```

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[2026-09-22 15:07:23] local.INFO: suspend_expired_job_started {"started_at":"2026-09-22 15:07:23"}

[2026-09-22 15:07:23] local.INFO: suspend_expired_checking {"condition":"status = active AND expires_at < now()","checking_at":"2026-09-22 15:07:23"}

[2026-09-22 15:07:23] local.INFO: suspend_expired_customer_started {"subscription_id":500,"customer_id":37,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:23"}

[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_completed {"subscription_id":500,"customer_id":37,"expires_at":"2026-09-21 15:04:54","duration_ms":561.87,"status":"success","completed_at":"2026-09-22 15:07:24"}

[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_started {"subscription_id":501,"customer_id":38,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:24"}

[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_completed {"subscription_id":501,"customer_id":38,"expires_at":"2026-09-21 15:04:54","duration_ms":409.17,"status":"success","completed_at":"2026-09-22 15:07:24"}

[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_started {"subscription_id":502,"customer_id":39,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:24"}

[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_completed {"subscription_id":502,"customer_id":39,"expires_at":"2026-09-21 15:04:54","duration_ms":395.67,"status":"success","completed_at":"2026-09-22 15:07:24"}
```

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[2026-09-22 15:07:24] local.INFO: suspend_expired_customer_started {"subscription_id":503,"customer_id":40,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:24"}

[2026-09-22 15:07:25] local.INFO: suspend_expired_customer_completed {"subscription_id":503,"customer_id":40,"expires_at":"2026-09-21 15:04:54","duration_ms":400.36,"status":"success","completed_at":"2026-09-22 15:07:25"}

[2026-09-22 15:07:25] local.INFO: suspend_expired_customer_started {"subscription_id":504,"customer_id":41,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:25"}

[2026-09-22 15:07:25] local.INFO: suspend_expired_customer_completed {"subscription_id":504,"customer_id":41,"expires_at":"2026-09-21 15:04:54","duration_ms":403.92,"status":"success","completed_at":"2026-09-22 15:07:25"}

[2026-09-22 15:07:25] local.INFO: suspend_expired_customer_started {"subscription_id":505,"customer_id":42,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:25"}

[2026-09-22 15:07:26] local.INFO: suspend_expired_customer_completed {"subscription_id":505,"customer_id":42,"expires_at":"2026-09-21 15:04:54","duration_ms":397.05,"status":"success","completed_at":"2026-09-22 15:07:26"}

[2026-09-22 15:07:26] local.INFO: suspend_expired_customer_started {"subscription_id":506,"customer_id":43,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:26"}

[2026-09-22 15:07:26] local.INFO: suspend_expired_customer_completed {"subscription_id":506,"customer_id":43,"expires_at":"2026-09-21 15:04:54","duration_ms":413.45,"status":"success","completed_at":"2026-09-22 15:07:26"}
```

```
[2026-09-22 15:07:26] local.INFO:
suspend_expired_customer_started
{"subscription_id":507,"customer_id":44,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:26"}

[2026-09-22 15:07:26] local.INFO:
suspend_expired_customer_completed
{"subscription_id":507,"customer_id":44,"expires_at":"2
026-09-21
15:04:54","duration_ms":423.28,"status":"success","comp
leted_at":"2026-09-22 15:07:26"}

[2026-09-22 15:07:26] local.INFO:
suspend_expired_customer_started
{"subscription_id":508,"customer_id":45,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:26"}

[2026-09-22 15:07:27] local.INFO:
suspend_expired_customer_completed
{"subscription_id":508,"customer_id":45,"expires_at":"2
026-09-21
15:04:54","duration_ms":434.67,"status":"success","comp
leted_at":"2026-09-22 15:07:27"}

[2026-09-22 15:07:27] local.INFO:
suspend_expired_customer_started
{"subscription_id":509,"customer_id":46,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:27"}

[2026-09-22 15:07:27] local.INFO:
suspend_expired_customer_completed
{"subscription_id":509,"customer_id":46,"expires_at":"2
026-09-21
15:04:54","duration_ms":432.22,"status":"success","comp
leted_at":"2026-09-22 15:07:27"}

[2026-09-22 15:07:27] local.INFO:
suspend_expired_customer_started
{"subscription_id":510,"customer_id":47,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:27"}

[2026-09-22 15:07:28] local.INFO:
suspend_expired_customer_completed
{"subscription_id":510,"customer_id":47,"expires_at":"2
026-09-21
15:04:54","duration_ms":405.08,"status":"success","comp
leted_at":"2026-09-22 15:07:28"}
```

```
[2026-09-22 15:07:28] local.INFO: suspend_expired_customer_started {"subscription_id":511,"customer_id":48,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:28"}

[2026-09-22 15:07:28] local.INFO: suspend_expired_customer_completed {"subscription_id":511,"customer_id":48,"expires_at":"2026-09-21 15:04:54","duration_ms":400.1,"status":"success","completed_at":"2026-09-22 15:07:28"}

[2026-09-22 15:07:28] local.INFO: suspend_expired_customer_started {"subscription_id":512,"customer_id":49,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:28"}

[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_completed {"subscription_id":512,"customer_id":49,"expires_at":"2026-09-21 15:04:54","duration_ms":430.61,"status":"success","completed_at":"2026-09-22 15:07:29"}

[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_started {"subscription_id":513,"customer_id":50,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:29"}

[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_completed {"subscription_id":513,"customer_id":50,"expires_at":"2026-09-21 15:04:54","duration_ms":471.31,"status":"success","completed_at":"2026-09-22 15:07:29"}

[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_started {"subscription_id":514,"customer_id":51,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:29"}

[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_completed {"subscription_id":514,"customer_id":51,"expires_at":"2026-09-21 15:04:54","duration_ms":432.57,"status":"success","completed_at":"2026-09-22 15:07:29"}
```

```
[2026-09-22 15:07:29] local.INFO: suspend_expired_customer_started {"subscription_id":515,"customer_id":52,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:29"}

[2026-09-22 15:07:30] local.INFO: suspend_expired_customer_completed {"subscription_id":515,"customer_id":52,"expires_at":"2026-09-21 15:04:54","duration_ms":402.75,"status":"success","completed_at":"2026-09-22 15:07:30"}

[2026-09-22 15:07:30] local.INFO: suspend_expired_customer_started {"subscription_id":516,"customer_id":53,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:30"}

[2026-09-22 15:07:30] local.INFO: suspend_expired_customer_completed {"subscription_id":516,"customer_id":53,"expires_at":"2026-09-21 15:04:54","duration_ms":399.69,"status":"success","completed_at":"2026-09-22 15:07:30"}

[2026-09-22 15:07:30] local.INFO: suspend_expired_customer_started {"subscription_id":517,"customer_id":54,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:30"}

[2026-09-22 15:07:31] local.INFO: suspend_expired_customer_completed {"subscription_id":517,"customer_id":54,"expires_at":"2026-09-21 15:04:54","duration_ms":387.2,"status":"success","completed_at":"2026-09-22 15:07:31"}

[2026-09-22 15:07:31] local.INFO: suspend_expired_customer_started {"subscription_id":518,"customer_id":55,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:31"}

[2026-09-22 15:07:31] local.INFO: suspend_expired_customer_completed {"subscription_id":518,"customer_id":55,"expires_at":"2026-09-21 15:04:54","duration_ms":390.68,"status":"success","completed_at":"2026-09-22 15:07:31"}
```

```
[2026-09-22 15:07:31] local.INFO:
suspend_expired_customer_started
{"subscription_id":519,"customer_id":56,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:31"}

[2026-09-22 15:07:31] local.INFO:
suspend_expired_customer_completed
{"subscription_id":519,"customer_id":56,"expires_at":"2
026-09-21
15:04:54","duration_ms":391.54,"status":"success","comp
leted_at":"2026-09-22 15:07:31"}

[2026-09-22 15:07:31] local.INFO:
suspend_expired_customer_started
{"subscription_id":520,"customer_id":57,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:31"}

[2026-09-22 15:07:32] local.INFO:
suspend_expired_customer_completed
{"subscription_id":520,"customer_id":57,"expires_at":"2
026-09-21
15:04:54","duration_ms":451.03,"status":"success","comp
leted_at":"2026-09-22 15:07:32"}

[2026-09-22 15:07:32] local.INFO:
suspend_expired_customer_started
{"subscription_id":521,"customer_id":58,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:32"}

[2026-09-22 15:07:32] local.INFO:
suspend_expired_customer_completed
{"subscription_id":521,"customer_id":58,"expires_at":"2
026-09-21
15:04:54","duration_ms":405.68,"status":"success","comp
leted_at":"2026-09-22 15:07:32"}

[2026-09-22 15:07:32] local.INFO:
suspend_expired_customer_started
{"subscription_id":522,"customer_id":59,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:32"}

[2026-09-22 15:07:33] local.INFO:
suspend_expired_customer_completed
{"subscription_id":522,"customer_id":59,"expires_at":"2
026-09-21
15:04:54","duration_ms":393.84,"status":"success","comp
leted_at":"2026-09-22 15:07:33"}
```

```
[2026-09-22 15:07:33] local.INFO:
suspend_expired_customer_started
{"subscription_id":523,"customer_id":60,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:33"}

[2026-09-22 15:07:33] local.INFO:
suspend_expired_customer_completed
{"subscription_id":523,"customer_id":60,"expires_at":"2
026-09-21
15:04:54","duration_ms":396.06,"status":"success","comp
leted_at":"2026-09-22 15:07:33"}

[2026-09-22 15:07:33] local.INFO:
suspend_expired_customer_started
{"subscription_id":524,"customer_id":61,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:33"}

[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_completed
{"subscription_id":524,"customer_id":61,"expires_at":"2
026-09-21
15:04:54","duration_ms":396.01,"status":"success","comp
leted_at":"2026-09-22 15:07:34"}

[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_started
{"subscription_id":525,"customer_id":62,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:34"}

[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_completed
{"subscription_id":525,"customer_id":62,"expires_at":"2
026-09-21
15:04:54","duration_ms":399.03,"status":"success","comp
leted_at":"2026-09-22 15:07:34"}

[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_started
{"subscription_id":526,"customer_id":63,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:34"}

[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_completed
{"subscription_id":526,"customer_id":63,"expires_at":"2
026-09-21
15:04:54","duration_ms":404.7,"status":"success","compl
eted_at":"2026-09-22 15:07:34"}
```

```
[2026-09-22 15:07:34] local.INFO:
suspend_expired_customer_started
{"subscription_id":527,"customer_id":64,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:34"}

[2026-09-22 15:07:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":527,"customer_id":64,"expires_at":"2
026-09-21
15:04:54","duration_ms":406.65,"status":"success","comp
leted_at":"2026-09-22 15:07:35"}

[2026-09-22 15:07:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":528,"customer_id":65,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:35"}

[2026-09-22 15:07:35] local.INFO:
suspend_expired_customer_completed
{"subscription_id":528,"customer_id":65,"expires_at":"2
026-09-21
15:04:54","duration_ms":399.49,"status":"success","comp
leted_at":"2026-09-22 15:07:35"}

[2026-09-22 15:07:35] local.INFO:
suspend_expired_customer_started
{"subscription_id":529,"customer_id":66,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:35"}

[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_completed
{"subscription_id":529,"customer_id":66,"expires_at":"2
026-09-21
15:04:54","duration_ms":398.88,"status":"success","comp
leted_at":"2026-09-22 15:07:36"}

[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_started
{"subscription_id":530,"customer_id":67,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:36"}

[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_completed
{"subscription_id":530,"customer_id":67,"expires_at":"2
026-09-21
15:04:54","duration_ms":389.0,"status":"success","compl
eted_at":"2026-09-22 15:07:36"}
```

```
[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_started
{"subscription_id":531,"customer_id":68,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:36"}

[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_completed
{"subscription_id":531,"customer_id":68,"expires_at":"2
026-09-21
15:04:54","duration_ms":394.9,"status":"success","compl
eted_at":"2026-09-22 15:07:36"}

[2026-09-22 15:07:36] local.INFO:
suspend_expired_customer_started
{"subscription_id":532,"customer_id":69,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:36"}

[2026-09-22 15:07:37] local.INFO:
suspend_expired_customer_completed
{"subscription_id":532,"customer_id":69,"expires_at":"2
026-09-21
15:04:54","duration_ms":409.58,"status":"success","comp
leted_at":"2026-09-22 15:07:37"}

[2026-09-22 15:07:37] local.INFO:
suspend_expired_customer_started
{"subscription_id":533,"customer_id":70,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:37"}

[2026-09-22 15:07:37] local.INFO:
suspend_expired_customer_completed
{"subscription_id":533,"customer_id":70,"expires_at":"2
026-09-21
15:04:54","duration_ms":411.13,"status":"success","comp
leted_at":"2026-09-22 15:07:37"}

[2026-09-22 15:07:37] local.INFO:
suspend_expired_customer_started
{"subscription_id":534,"customer_id":71,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:37"}

[2026-09-22 15:07:38] local.INFO:
suspend_expired_customer_completed
{"subscription_id":534,"customer_id":71,"expires_at":"2
026-09-21
15:04:54","duration_ms":454.14,"status":"success","comp
leted_at":"2026-09-22 15:07:38"}
```

```
[2026-09-22 15:07:38] local.INFO: suspend_expired_customer_started {"subscription_id":535,"customer_id":72,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:38"}

[2026-09-22 15:07:38] local.INFO: suspend_expired_customer_completed {"subscription_id":535,"customer_id":72,"expires_at":"2026-09-21 15:04:54","duration_ms":424.83,"status":"success","completed_at":"2026-09-22 15:07:38"}

[2026-09-22 15:07:38] local.INFO: suspend_expired_customer_started {"subscription_id":536,"customer_id":73,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:38"}

[2026-09-22 15:07:38] local.INFO: suspend_expired_customer_completed {"subscription_id":536,"customer_id":73,"expires_at":"2026-09-21 15:04:54","duration_ms":415.88,"status":"success","completed_at":"2026-09-22 15:07:38"}

[2026-09-22 15:07:38] local.INFO: suspend_expired_customer_started {"subscription_id":537,"customer_id":74,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:38"}

[2026-09-22 15:07:39] local.INFO: suspend_expired_customer_completed {"subscription_id":537,"customer_id":74,"expires_at":"2026-09-21 15:04:54","duration_ms":453.79,"status":"success","completed_at":"2026-09-22 15:07:39"}

[2026-09-22 15:07:39] local.INFO: suspend_expired_customer_started {"subscription_id":538,"customer_id":75,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:39"}

[2026-09-22 15:07:39] local.INFO: suspend_expired_customer_completed {"subscription_id":538,"customer_id":75,"expires_at":"2026-09-21 15:04:54","duration_ms":449.74,"status":"success","completed_at":"2026-09-22 15:07:39"}
```

```
[2026-09-22 15:07:39] local.INFO:
suspend_expired_customer_started
{"subscription_id":539,"customer_id":76,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:39"}

[2026-09-22 15:07:41] local.INFO:
suspend_expired_customer_completed
{"subscription_id":539,"customer_id":76,"expires_at":"2
026-09-21
15:04:54","duration_ms":1417.0,"status":"success","comp
leted_at":"2026-09-22 15:07:41"}

[2026-09-22 15:07:41] local.INFO:
suspend_expired_customer_started
{"subscription_id":540,"customer_id":77,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:41"}

[2026-09-22 15:07:41] local.INFO:
suspend_expired_customer_completed
{"subscription_id":540,"customer_id":77,"expires_at":"2
026-09-21
15:04:54","duration_ms":401.44,"status":"success","comp
leted_at":"2026-09-22 15:07:41"}

[2026-09-22 15:07:41] local.INFO:
suspend_expired_customer_started
{"subscription_id":541,"customer_id":78,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:41"}

[2026-09-22 15:07:42] local.INFO:
suspend_expired_customer_completed
{"subscription_id":541,"customer_id":78,"expires_at":"2
026-09-21
15:04:54","duration_ms":391.09,"status":"success","comp
leted_at":"2026-09-22 15:07:42"}

[2026-09-22 15:07:42] local.INFO:
suspend_expired_customer_started
{"subscription_id":542,"customer_id":79,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:42"}

[2026-09-22 15:07:42] local.INFO:
suspend_expired_customer_completed
{"subscription_id":542,"customer_id":79,"expires_at":"2
026-09-21
15:04:54","duration_ms":385.51,"status":"success","comp
leted_at":"2026-09-22 15:07:42"}
```

```
[2026-09-22 15:07:42] local.INFO: suspend_expired_customer_started {"subscription_id":543,"customer_id":80,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:42"}

[2026-09-22 15:07:42] local.INFO: suspend_expired_customer_completed {"subscription_id":543,"customer_id":80,"expires_at":"2026-09-21 15:04:54","duration_ms":396.47,"status":"success","completed_at":"2026-09-22 15:07:42"}

[2026-09-22 15:07:42] local.INFO: suspend_expired_customer_started {"subscription_id":544,"customer_id":81,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:42"}

[2026-09-22 15:07:43] local.INFO: suspend_expired_customer_completed {"subscription_id":544,"customer_id":81,"expires_at":"2026-09-21 15:04:54","duration_ms":399.6,"status":"success","completed_at":"2026-09-22 15:07:43"}

[2026-09-22 15:07:43] local.INFO: suspend_expired_customer_started {"subscription_id":545,"customer_id":82,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:43"}

[2026-09-22 15:07:43] local.INFO: suspend_expired_customer_completed {"subscription_id":545,"customer_id":82,"expires_at":"2026-09-21 15:04:54","duration_ms":397.5,"status":"success","completed_at":"2026-09-22 15:07:43"}

[2026-09-22 15:07:43] local.INFO: suspend_expired_customer_started {"subscription_id":546,"customer_id":83,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:43"}

[2026-09-22 15:07:43] local.INFO: suspend_expired_customer_completed {"subscription_id":546,"customer_id":83,"expires_at":"2026-09-21 15:04:54","duration_ms":388.48,"status":"success","completed_at":"2026-09-22 15:07:43"}
```

```
[2026-09-22 15:07:43] local.INFO:
suspend_expired_customer_started
{"subscription_id":547,"customer_id":84,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:43"}

[2026-09-22 15:07:44] local.INFO:
suspend_expired_customer_completed
{"subscription_id":547,"customer_id":84,"expires_at":"2
026-09-21
15:04:54","duration_ms":398.39,"status":"success","comp
leted_at":"2026-09-22 15:07:44"}

[2026-09-22 15:07:44] local.INFO:
suspend_expired_customer_started
{"subscription_id":548,"customer_id":85,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:44"}

[2026-09-22 15:07:44] local.INFO:
suspend_expired_customer_completed
{"subscription_id":548,"customer_id":85,"expires_at":"2
026-09-21
15:04:54","duration_ms":408.57,"status":"success","comp
leted_at":"2026-09-22 15:07:44"}

[2026-09-22 15:07:44] local.INFO:
suspend_expired_customer_started
{"subscription_id":549,"customer_id":86,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:44"}

[2026-09-22 15:07:45] local.INFO:
suspend_expired_customer_completed
{"subscription_id":549,"customer_id":86,"expires_at":"2
026-09-21
15:04:54","duration_ms":401.04,"status":"success","comp
leted_at":"2026-09-22 15:07:45"}

[2026-09-22 15:07:45] local.INFO:
suspend_expired_customer_started
{"subscription_id":550,"customer_id":87,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:45"}

[2026-09-22 15:07:45] local.INFO:
suspend_expired_customer_completed
{"subscription_id":550,"customer_id":87,"expires_at":"2
026-09-21
15:04:54","duration_ms":406.34,"status":"success","comp
leted_at":"2026-09-22 15:07:45"}
```

```
[2026-09-22 15:07:45] local.INFO:
suspend_expired_customer_started
{"subscription_id":551,"customer_id":88,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:45"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_completed
{"subscription_id":551,"customer_id":88,"expires_at":"2
026-09-21
15:04:54","duration_ms":395.08,"status":"success","comp
leted_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_started
{"subscription_id":552,"customer_id":89,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_completed
{"subscription_id":552,"customer_id":89,"expires_at":"2
026-09-21
15:04:54","duration_ms":393.52,"status":"success","comp
leted_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_started
{"subscription_id":553,"customer_id":90,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_completed
{"subscription_id":553,"customer_id":90,"expires_at":"2
026-09-21
15:04:54","duration_ms":391.59,"status":"success","comp
leted_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:46] local.INFO:
suspend_expired_customer_started
{"subscription_id":554,"customer_id":91,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:46"}

[2026-09-22 15:07:47] local.INFO:
suspend_expired_customer_completed
{"subscription_id":554,"customer_id":91,"expires_at":"2
026-09-21
15:04:54","duration_ms":403.78,"status":"success","comp
leted_at":"2026-09-22 15:07:47"}
```

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[2026-09-22 15:07:47] local.INFO:
suspend_expired_customer_started
{"subscription_id":555,"customer_id":92,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:47"}

[2026-09-22 15:07:47] local.INFO:
suspend_expired_customer_completed
{"subscription_id":555,"customer_id":92,"expires_at":"2
026-09-21
15:04:54","duration_ms":433.74,"status":"success","comp
leted_at":"2026-09-22 15:07:47"}

[2026-09-22 15:07:47] local.INFO:
suspend_expired_customer_started
{"subscription_id":556,"customer_id":93,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:47"}

[2026-09-22 15:07:48] local.INFO:
suspend_expired_customer_completed
{"subscription_id":556,"customer_id":93,"expires_at":"2
026-09-21
15:04:54","duration_ms":445.89,"status":"success","comp
leted_at":"2026-09-22 15:07:48"}

[2026-09-22 15:07:48] local.INFO:
suspend_expired_customer_started
{"subscription_id":557,"customer_id":94,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:48"}

[2026-09-22 15:07:48] local.INFO:
suspend_expired_customer_completed
{"subscription_id":557,"customer_id":94,"expires_at":"2
026-09-21
15:04:54","duration_ms":443.79,"status":"success","comp
leted_at":"2026-09-22 15:07:48"}

[2026-09-22 15:07:48] local.INFO:
suspend_expired_customer_started
{"subscription_id":558,"customer_id":95,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:48"}

[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_completed
{"subscription_id":558,"customer_id":95,"expires_at":"2
026-09-21
15:04:54","duration_ms":520.79,"status":"success","comp
leted_at":"2026-09-22 15:07:49"}
```

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[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_started
{"subscription_id":559,"customer_id":96,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:49"}

[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_completed
{"subscription_id":559,"customer_id":96,"expires_at":"2
026-09-21
15:04:54","duration_ms":484.8,"status":"success","compl
eted_at":"2026-09-22 15:07:49"}

[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_started
{"subscription_id":560,"customer_id":97,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:49"}

[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_completed
{"subscription_id":560,"customer_id":97,"expires_at":"2
026-09-21
15:04:54","duration_ms":315.88,"status":"success","comp
leted_at":"2026-09-22 15:07:49"}

[2026-09-22 15:07:49] local.INFO:
suspend_expired_customer_started
{"subscription_id":561,"customer_id":98,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:49"}

[2026-09-22 15:07:50] local.INFO:
suspend_expired_customer_completed
{"subscription_id":561,"customer_id":98,"expires_at":"2
026-09-21
15:04:54","duration_ms":267.82,"status":"success","comp
leted_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO:
suspend_expired_customer_started
{"subscription_id":562,"customer_id":99,"expires_at":"2
026-09-21 15:04:54","started_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO:
suspend_expired_customer_completed
{"subscription_id":562,"customer_id":99,"expires_at":"2
026-09-21
15:04:54","duration_ms":261.87,"status":"success","comp
leted_at":"2026-09-22 15:07:50"}
```

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[2026-09-22 15:07:50] local.INFO: suspend_expired_customer_started {"subscription_id":563,"customer_id":100,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO: suspend_expired_customer_completed {"subscription_id":563,"customer_id":100,"expires_at":"2026-09-21 15:04:54","duration_ms":269.44,"status":"success","completed_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO: suspend_expired_customer_started {"subscription_id":564,"customer_id":101,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO: suspend_expired_customer_completed {"subscription_id":564,"customer_id":101,"expires_at":"2026-09-21 15:04:54","duration_ms":270.87,"status":"success","completed_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:50] local.INFO: suspend_expired_customer_started {"subscription_id":565,"customer_id":102,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:50"}

[2026-09-22 15:07:51] local.INFO: suspend_expired_customer_completed {"subscription_id":565,"customer_id":102,"expires_at":"2026-09-21 15:04:54","duration_ms":262.68,"status":"success","completed_at":"2026-09-22 15:07:51"}

[2026-09-22 15:07:51] local.INFO: suspend_expired_customer_started {"subscription_id":566,"customer_id":103,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:51"}

[2026-09-22 15:07:51] local.INFO: suspend_expired_customer_completed
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{"subscription_id":566,"customer_id":103,"expires_at":"
2026-09-21
15:04:54","duration_ms":259.54,"status":"success","comp
leted_at":"2026-09-22 15:07:51"}

[2026-09-22            15:07:51]            local.INFO:
suspend_expired_customer_started
{"subscription_id":567,"customer_id":104,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:51"}

[2026-09-22            15:07:51]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":567,"customer_id":104,"expires_at":"
2026-09-21
15:04:54","duration_ms":283.93,"status":"success","comp
leted_at":"2026-09-22 15:07:51"}

[2026-09-22            15:07:51]            local.INFO:
suspend_expired_customer_started
{"subscription_id":568,"customer_id":105,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:51"}

[2026-09-22            15:07:51]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":568,"customer_id":105,"expires_at":"
2026-09-21
15:04:54","duration_ms":275.54,"status":"success","comp
leted_at":"2026-09-22 15:07:51"}

[2026-09-22            15:07:51]            local.INFO:
suspend_expired_customer_started
{"subscription_id":569,"customer_id":106,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:51"}

[2026-09-22            15:07:52]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":569,"customer_id":106,"expires_at":"
2026-09-21
15:04:54","duration_ms":268.81,"status":"success","comp
leted_at":"2026-09-22 15:07:52"}

[2026-09-22            15:07:52]            local.INFO:
suspend_expired_customer_started
{"subscription_id":570,"customer_id":107,"expires_at":"
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2026-09-21 15:04:54","started_at":"2026-09-22
15:07:52"}

[2026-09-22 15:07:52] local.INFO:
suspend_expired_customer_completed
{"subscription_id":570,"customer_id":107,"expires_at":"
2026-09-21
15:04:54","duration_ms":273.24,"status":"success","comp
leted_at":"2026-09-22 15:07:52"}

[2026-09-22 15:07:52] local.INFO:
suspend_expired_customer_started
{"subscription_id":571,"customer_id":108,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:52"}

[2026-09-22 15:07:52] local.INFO:
suspend_expired_customer_completed
{"subscription_id":571,"customer_id":108,"expires_at":"
2026-09-21
15:04:54","duration_ms":290.78,"status":"success","comp
leted_at":"2026-09-22 15:07:52"}

[2026-09-22 15:07:52] local.INFO:
suspend_expired_customer_started
{"subscription_id":572,"customer_id":109,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:52"}

[2026-09-22 15:07:53] local.INFO:
suspend_expired_customer_completed
{"subscription_id":572,"customer_id":109,"expires_at":"
2026-09-21
15:04:54","duration_ms":280.38,"status":"success","comp
leted_at":"2026-09-22 15:07:53"}

[2026-09-22 15:07:53] local.INFO:
suspend_expired_customer_started
{"subscription_id":573,"customer_id":110,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:53"}

[2026-09-22 15:07:53] local.INFO:
suspend_expired_customer_completed
{"subscription_id":573,"customer_id":110,"expires_at":"
2026-09-21
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15:04:54","duration_ms":269.38,"status":"success","comp
leted_at":"2026-09-22 15:07:53"}

[2026-09-22            15:07:53]           local.INFO:
suspend_expired_customer_started
{"subscription_id":574,"customer_id":111,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:53"}

[2026-09-22            15:07:53]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":574,"customer_id":111,"expires_at":"
2026-09-21
15:04:54","duration_ms":274.34,"status":"success","comp
leted_at":"2026-09-22 15:07:53"}

[2026-09-22            15:07:53]           local.INFO:
suspend_expired_customer_started
{"subscription_id":575,"customer_id":112,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:53"}

[2026-09-22            15:07:53]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":575,"customer_id":112,"expires_at":"
2026-09-21
15:04:54","duration_ms":262.12,"status":"success","comp
leted_at":"2026-09-22 15:07:53"}

[2026-09-22            15:07:53]           local.INFO:
suspend_expired_customer_started
{"subscription_id":576,"customer_id":113,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:53"}

[2026-09-22            15:07:54]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":576,"customer_id":113,"expires_at":"
2026-09-21
15:04:54","duration_ms":278.37,"status":"success","comp
leted_at":"2026-09-22 15:07:54"}

[2026-09-22            15:07:54]           local.INFO:
suspend_expired_customer_started
{"subscription_id":577,"customer_id":114,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:54"}
```

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[2026-09-22 15:07:54] local.INFO: suspend_expired_customer_completed {"subscription_id":577,"customer_id":114,"expires_at":"2026-09-21 15:04:54","duration_ms":274.61,"status":"success","completed_at":"2026-09-22 15:07:54"}

[2026-09-22 15:07:54] local.INFO: suspend_expired_customer_started {"subscription_id":578,"customer_id":115,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:54"}

[2026-09-22 15:07:54] local.INFO: suspend_expired_customer_completed {"subscription_id":578,"customer_id":115,"expires_at":"2026-09-21 15:04:54","duration_ms":255.76,"status":"success","completed_at":"2026-09-22 15:07:54"}

[2026-09-22 15:07:54] local.INFO: suspend_expired_customer_started {"subscription_id":579,"customer_id":116,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:54"}

[2026-09-22 15:07:55] local.INFO: suspend_expired_customer_completed {"subscription_id":579,"customer_id":116,"expires_at":"2026-09-21 15:04:54","duration_ms":289.61,"status":"success","completed_at":"2026-09-22 15:07:55"}

[2026-09-22 15:07:55] local.INFO: suspend_expired_customer_started {"subscription_id":580,"customer_id":117,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:55"}

[2026-09-22 15:07:55] local.INFO: suspend_expired_customer_completed {"subscription_id":580,"customer_id":117,"expires_at":"2026-09-21 15:04:54","duration_ms":678.14,"status":"success","completed_at":"2026-09-22 15:07:55"}
```

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[2026-09-22 15:07:55] local.INFO: suspend_expired_customer_started {"subscription_id":581,"customer_id":118,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:55"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_completed {"subscription_id":581,"customer_id":118,"expires_at":"2026-09-21 15:04:54","duration_ms":346.89,"status":"success","completed_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_started {"subscription_id":582,"customer_id":119,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_completed {"subscription_id":582,"customer_id":119,"expires_at":"2026-09-21 15:04:54","duration_ms":331.97,"status":"success","completed_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_started {"subscription_id":583,"customer_id":120,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_completed {"subscription_id":583,"customer_id":120,"expires_at":"2026-09-21 15:04:54","duration_ms":295.19,"status":"success","completed_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_started {"subscription_id":584,"customer_id":121,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:56"}

[2026-09-22 15:07:56] local.INFO: suspend_expired_customer_completed
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{"subscription_id":584,"customer_id":121,"expires_at":"
2026-09-21
15:04:54","duration_ms":293.18,"status":"success","comp
leted_at":"2026-09-22 15:07:56"}

[2026-09-22            15:07:56]            local.INFO:
suspend_expired_customer_started
{"subscription_id":585,"customer_id":122,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:56"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":585,"customer_id":122,"expires_at":"
2026-09-21
15:04:54","duration_ms":275.89,"status":"success","comp
leted_at":"2026-09-22 15:07:57"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_started
{"subscription_id":586,"customer_id":123,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:57"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":586,"customer_id":123,"expires_at":"
2026-09-21
15:04:54","duration_ms":269.63,"status":"success","comp
leted_at":"2026-09-22 15:07:57"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_started
{"subscription_id":587,"customer_id":124,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:57"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_completed
{"subscription_id":587,"customer_id":124,"expires_at":"
2026-09-21
15:04:54","duration_ms":268.02,"status":"success","comp
leted_at":"2026-09-22 15:07:57"}

[2026-09-22            15:07:57]            local.INFO:
suspend_expired_customer_started
{"subscription_id":588,"customer_id":125,"expires_at":"
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2026-09-21 15:04:54","started_at":"2026-09-22
15:07:57"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_completed
{"subscription_id":588,"customer_id":125,"expires_at":"
2026-09-21
15:04:54","duration_ms":292.69,"status":"success","comp
leted_at":"2026-09-22 15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_started
{"subscription_id":589,"customer_id":126,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_completed
{"subscription_id":589,"customer_id":126,"expires_at":"
2026-09-21
15:04:54","duration_ms":253.72,"status":"success","comp
leted_at":"2026-09-22 15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_started
{"subscription_id":590,"customer_id":127,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_completed
{"subscription_id":590,"customer_id":127,"expires_at":"
2026-09-21
15:04:54","duration_ms":270.38,"status":"success","comp
leted_at":"2026-09-22 15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_started
{"subscription_id":591,"customer_id":128,"expires_at":"
2026-09-21 15:04:54","started_at":"2026-09-22
15:07:58"}

[2026-09-22 15:07:58] local.INFO:
suspend_expired_customer_completed
{"subscription_id":591,"customer_id":128,"expires_at":"
2026-09-21
```

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15:04:54","duration_ms":280.88,"status":"success","comp
leted_at":"2026-09-22 15:07:58"}

[2026-09-22            15:07:58]           local.INFO:
suspend_expired_customer_started
{"subscription_id":592,"customer_id":129,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:58"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":592,"customer_id":129,"expires_at":"
2026-09-21
15:04:54","duration_ms":291.5,"status":"success","compl
eted_at":"2026-09-22 15:07:59"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_started
{"subscription_id":593,"customer_id":130,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:59"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":593,"customer_id":130,"expires_at":"
2026-09-21
15:04:54","duration_ms":269.44,"status":"success","comp
leted_at":"2026-09-22 15:07:59"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_started
{"subscription_id":594,"customer_id":131,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:59"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_completed
{"subscription_id":594,"customer_id":131,"expires_at":"
2026-09-21
15:04:54","duration_ms":274.35,"status":"success","comp
leted_at":"2026-09-22 15:07:59"}

[2026-09-22            15:07:59]           local.INFO:
suspend_expired_customer_started
{"subscription_id":595,"customer_id":132,"expires_at":"
2026-09-21           15:04:54","started_at":"2026-09-22
15:07:59"}
```

```
[2026-09-22 15:07:59] local.INFO: suspend_expired_customer_completed {"subscription_id":595,"customer_id":132,"expires_at":"2026-09-21 15:04:54","duration_ms":271.45,"status":"success","completed_at":"2026-09-22 15:07:59"}

[2026-09-22 15:07:59] local.INFO: suspend_expired_customer_started {"subscription_id":596,"customer_id":133,"expires_at":"2026-09-21 15:04:54","started_at":"2026-09-22 15:07:59"}

[2026-09-22 15:08:00] local.INFO: suspend_expired_customer_completed {"subscription_id":596,"customer_id":133,"expires_at":"2026-09-21 15:04:54","duration_ms":521.94,"status":"success","completed_at":"2026-09-22 15:08:00"}

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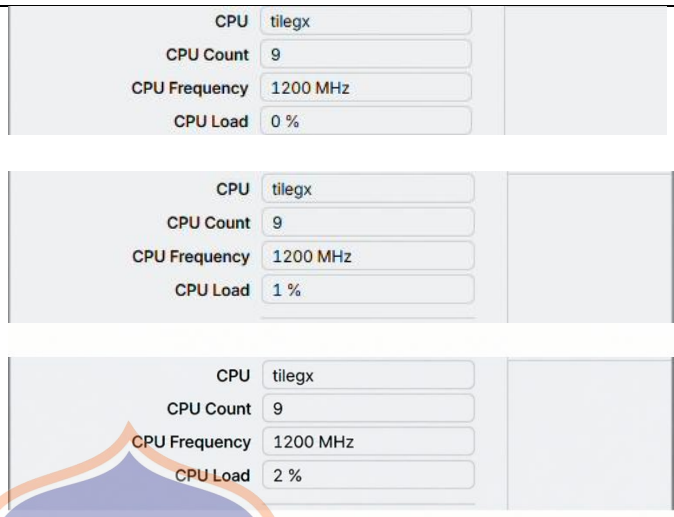
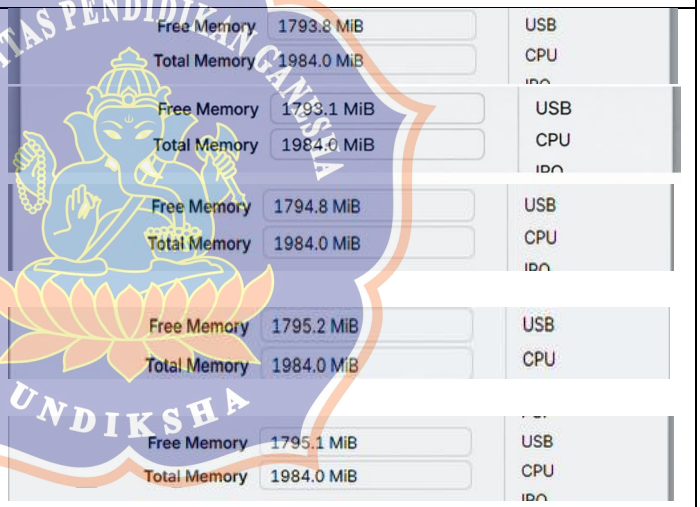
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Lampiran 10 Metrik Observasi Resource Mikrotik

Parameter	Observasi
CPU Load	
Free Memory	

Lampiran 11 Riwayat Hidup

RIWAYAT HIDUP



Ketut Gitahadi Merta lahir di Tukadaya pada tanggal 04 Juni 2004 dari pasangan I Kade Ardana dan Ni Ketut Yortini. Penulis berkebangsaan Indonesia dan beragama Hindu dengan beralamat di Banjar Munduk Ranti, Desa Tukadaya, Kecamatan Melaya, Kabupaten Jembrana, Provinsi Bali. Penulis menyelesaikan pendidikan sekolah dasar di SD Negeri 4 Tukadaya dan lulus pada tahun 2016. Selanjutnya, penulis melanjutkan pendidikan di SMP Negeri 2 Melaya dan lulus pada tahun 2019 Kemudian, penulis melanjutkan pendidikan di SMA Negeri 1 Negara dengan mengambil konsentrasi Matematika dan Ilmu Pengetahuan Alam (MIPA) dan lulus pada tahun 2022. Ketertarikan penulis terhadap perkembangan teknologi dan komputer mendorong penulis untuk melanjutkan pendidikan ke jenjang perguruan tinggi di Universitas Pendidikan Ganesha, Singaraja, dengan mengambil Program Studi S1 Pendidikan Teknik Informatika, Jurusan Teknik Informatika, Fakultas Teknik dan Kejuruan pada tahun 2022. Selama menempuh pendidikan di perguruan tinggi, penulis memiliki minat pada bidang Jaringan Komputer. Sebagai salah satu syarat untuk memperoleh gelar Sarjana Pendidikan (S.Pd.), penulis menyelesaikan skripsi yang berjudul "Perancangan Aplikasi Web *Network Automation* Manajemen Pelanggan PPPoE Menggunakan MikroTik Pada Jaringan RT/RW Net (Studi Kasus: Mconnek)"