Untuk implementasi ke production, berikut langkah-langkah yang perlu dilakukan:

1. **API Key & Environment**

env

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# Ganti API key development dengan production

XENDIT\_API\_KEY=xnd\_production\_xxxxxx # API key production dari dashboard Xendit

XENDIT\_WEBHOOK\_TOKEN=production\_token # Webhook token untuk production

1. **Domain & SSL**

* Setup domain production (misal: payment.yourdomain.com)
* Pasang SSL Certificate (wajib HTTPS untuk keamanan)
* Update webhook URL di dashboard Xendit ke URL production

1. **Server Requirements**

* Pastikan server memenuhi requirements:
  + PHP 7.4 atau lebih tinggi
  + Extension: curl, json
  + Memory limit yang cukup
  + Proper error logging

1. **Keamanan**

php

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// Tambahkan header security

header("Strict-Transport-Security: max-age=31536000; includeSubDomains");

header("X-Content-Type-Options: nosniff");

header("X-Frame-Options: DENY");

header("X-XSS-Protection: 1; mode=block");

1. **Error Handling & Logging**

php

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// Tambahkan proper error logging

error\_reporting(E\_ALL);

ini\_set('display\_errors', 0);

ini\_set('log\_errors', 1);

ini\_set('error\_log', '/path/to/error.log');

1. **Rate Limiting**

php

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// Implementasi rate limiting untuk mencegah abuse

// Contoh simple menggunakan Redis/Memcached

if (isRateLimitExceeded($clientIP)) {

http\_response\_code(429);

exit('Too Many Requests');

}

1. **Setup Web Server**

* Untuk Apache (.htaccess):

apache

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RewriteEngine On

RewriteCond %{HTTPS} off

RewriteRule ^(.\*)$ https://%{HTTP\_HOST}%{REQUEST\_URI} [L,R=301]

# Security headers

Header set X-Content-Type-Options "nosniff"

Header set X-Frame-Options "DENY"

Header set X-XSS-Protection "1; mode=block"

* Untuk Nginx:

nginx

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server {

listen 443 ssl;

server\_name payment.yourdomain.com;

ssl\_certificate /path/to/cert.pem;

ssl\_certificate\_key /path/to/key.pem;

location / {

try\_files $uri /index.php$is\_args$args;

}

location ~ \.php$ {

fastcgi\_pass unix:/var/run/php/php7.4-fpm.sock;

fastcgi\_index index.php;

include fastcgi\_params;

}

}

1. **Monitoring & Logging**

* Setup monitoring sistem (New Relic, Datadog, dll)
* Implement detailed logging:

php

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// Logging helper

function logPayment($type, $data) {

$logData = [

'timestamp' => date('Y-m-d H:i:s'),

'type' => $type,

'data' => $data

];

file\_put\_contents(

'payment.log',

json\_encode($logData) . "\n",

FILE\_APPEND

);

}

1. **Backup Strategy**

* Setup regular backup untuk:
  + Database (jika ada)
  + Log files
  + Environment configuration

1. **Testing di Production**

bash

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# Test QR Generation

curl -X POST https://payment.yourdomain.com/generate-qr \

-H "Content-Type: application/json" \

-d '{

"reference\_id": "prod-test-123",

"type": "DYNAMIC",

"currency": "IDR",

"amount": 10000

}'

# Verify webhook URL bisa diakses

curl -X GET https://payment.yourdomain.com/xendit-callback

1. **Dokumentasi Production**

* Update dokumentasi dengan:
  + Production URL
  + Monitoring procedures
  + Troubleshooting steps
  + Emergency contacts

1. **Maintenance Plan**

* Schedule untuk:
  + Security updates
  + Dependency updates
  + Log rotation
  + Performance monitoring

Setelah setup production, pastikan untuk melakukan testing menyeluruh sebelum go-live dan siapkan rollback plan jika diperlukan.