

Checklist

Recon

- ☐ Footprinting
 - ☐ Nmap
 - ☐ Evilscale
 - ☐ Rustscan
 - ☐ Telnet/Netcat
 - ☐ Banner Grabbing
 - ☐ NSE NMAP SCRIPT
- ☐ Cari informasi sensitif
- ☐ Cari public exploit
 - ☐ <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=>
 - ☐ <https://packetstormsecurity.com/>
 - ☐ <https://www.exploit-db.com/>
 - ☐ <https://github.com/>
 - ☐ "CVE" "keyword"
- ☐ Lihat semua protokol
 - ☐ Cari cara komunikasi dengan protokolnya
 - ☐ Apa yang biasanya dilakukan orang
 - ☐ cari di github
 - ☐ cari di wiki
 - ☐ cari di manual page
 - ☐ cari di Top 5, dan semacam tentang cara komunikasinya
 - ☐ cari di stackoverflow
 - ☐ cari di forum forum developer
 - ☐ cari di pembahasan forum, baca setiap thread orang
 - ☐ Cari semua kerentanan yang pernah terjadi sama protokol itu
 - ☐ Layanan yang digunakan sama protokol itu (Dalam suatu server)
 - ☐ Ngertiin konsep dari protokol itu
 - ☐ Baca tentang cara konfignya
 - ☐ Cobain di lokal buat layanan dan cara konfignya gimana
 - ☐ Cari backupan
 - ☐ Cari notes
 - ☐ Googling setiap response
 - ☐ Googling setiap error
 - ☐ Fokus ke error handling
- ☐ Phising Scenario, imap/smtp.
- ☐ Kalo ngerasa ga bisa diapa-apain, skip.

Bypassing WAF

- Origin IP
 - bgptools
 - ipinfo
 - ASN
 - bgp.he.net
 - dnsrecon
 - A
 - NS
 - AAAA
 - subnets/CIDR
- Unicode (whitespace)
- %0A
- %0D
- %0C
- %0B

HTTP/HTTPS

- ☐ Whatweb
- ☐ Cewl
- ☐ Nikto
- ☐ Cari informasi sensitif
- ☐ Cari error handling
- ☐ Cari cloud storage
- ☐ Periksa .git.
- ☐ Backup files:
 - ☐ .bak
 - ☐ .tgz
 - ☐ .tar.xz
 - ☐ .tar.gz
 - ☐ .tar
 - ☐ .zip
 - ☐ .rar
 - ☐ .7z
 - ☐ .txt
 - ☐ .bkp
 - ☐ .bp
 - ☐ .save
 - ☐ .docx
 - ☐ .old

- ☐ .baka
- ☐ .bk
- ☐ .backup
- ☐ https://en.wikipedia.org/wiki/List_of_archive_formats
- ☐ <https://fileinfo.com/filetypes/backup>
- ☐ Perhatikan teknologi yang digunakan:
 - ☐ Header response
 - ☐ Webserver
 - ☐ CMS
 - ☐ Bahasa Pemrograman
 - ☐ Library
 - ☐ Meta tag
 - ☐ Comment tag
 - ☐ Jenis Cookie
 - ☐ File Javascript
- ☐ Directory Fuzzing:
 - ☐ Feroxbuster
 - ☐ Dirsearch
- ☐ TLS/SSL
 - ☐ sslscan2
- ☐ Kalo ada subdomain:
 - ☐ Periksa tcp/53 atau DNS Record:
 - ☐ Nameserver
 - ☐ CNAME
 - ☐ TXT
 - ☐ bind address
 - ☐ A
 - ☐ MX
 - ☐ NS
 - ☐ Tools
 - ☐ dnsrecon
 - ☐ dnsenum
 - ☐ dig
 - ☐ nslookup
- ☐ Periksa Virtual Host
 - ☐ wfuzz
 - ☐ ffuf
- ☐ Cobain semua fitur aplikasi webnya
- ☐ Perhatiin WSTG
 - ☐ Authentication
 - ☐ Default Credentials
 - ☐ admin:admin

- ☐ root:root
- ☐ password:password
- ☐ tomcat:tomcat
- ☐ manager:manager
- ☐ user:user
- ☐ <name>:<name>
- ☐
- ☐ <https://github.com/danielmiessler/SecLists/blob/master/Passwords/Default-Credentials/default-passwords.csv>
- ☐ <https://datarecovery.com/rd/default-passwords/>
- ☐ <https://www.thehacker.recipes/web/config/default-credentials>
- ☐ Bruteforce
- ☐ Configuration and Deployment Management
 - ☐ Test Network Infrastructure Configuration
 - ☐ Known Server Vulnerabilities
 - ☐ CVE Public Exploit
 - ☐ <https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=>
 - ☐ Administrative Tools
 - ☐ WebDAV
 - ☐ NFS
 - ☐ CIFS
 - ☐ FTP
 - ☐ IIS Server
 - ☐ Apache
 - ☐ Nginx
 - ☐ Express
 - ☐ Node
 - ☐ RPC
 - ☐ SMB
 - ☐ SSH
 - ☐ Test Application Platform Configuration
 - ☐ Sample and Known Files and Directories
 - ☐ Comment Review
 - ☐ System Configuration
 - ☐ Configuration Review
 - ☐ Logging
 - ☐ Sensitive Information in Logs
 - ☐ Log Review
 - ☐ Log Access Control
 - ☐ Log Storage
 - ☐ Log Location
 - ☐ Log Rotation

☐ File Extensions Handling for Sensitive Information

- ☐ .config
- ☐ .asa
- ☐ .inc
- ☐ .zip
- ☐ .tar
- ☐ .gz
- ☐ .tgz
- ☐ .rar
- ☐ .java
- ☐ .txt
- ☐ .pdf
- ☐ .docx
- ☐ .rtf
- ☐ .xlsx
- ☐ .xls
- ☐ .ppt
- ☐ .pptx
- ☐ .bak
- ☐ .old
- ☐ .old.extension
- ☐ .extension.bak
- ☐ .extension.old

☐ HTTP Methods & Headers

☐ Discover the Supported Methods

- ☐ OPTIONS
- ☐ TRACE
- ☐ DELETE
- ☐ PUT
- ☐ CONNECT
- ☐ PATCH

☐ Discover HTTP Headers

- ☐ Host Header Injection
- ☐ Custom Headers
 - ☐ X-Access-Token
 - ☐ X-Token
 - ☐ X-<Name>
 - ☐ Any Custom Header Built-In.

☐ HTTPS

☐ Cloud Storage

- ☐ S3 Bucket
 - ☐ aws-cli

- ☐ CSP
 - ☐ <https://csp-evaluator.withgoogle.com/>
- ☐ Cari cara buat bypass authentication scheme
 - ☐ error handling
 - ☐ kerentanan lain
 - ☐ LFI
 - ☐ XXE (SSRF file:/// , gopher:/// , ftp:///)
 - ☐ XSS (tergantung skenario)
 - ☐ XSS > CSRF
 - ☐ XSS > Steal cookie
 - ☐ Account takeover
 - ☐ XSS > SSRF
- ☐ Cek fitur password change / reset
 - ☐ Account takeover
 - ☐ Generated Token Algorithm
 - ☐ Cryptography (CryptoJS) (React JS biasanya sering)
 - ☐ Email Flooding Attack
 - ☐ No Rate Limit
- ☐ Cek fitur ganti email
 - ☐ Account takeover
 - ☐ Email Flooding Attack
 - ☐ No Rate Limit
- ☐ Business Logic
 - ☐ File Upload
 - ☐ Unexpected File Types
 - ☐ Chain from other to view the file (unexpected).
 - ☐ For example:
 - ☐ .txt upload (webshell)
 - ☐ there's a feature that able to view the .txt
 - ☐ chain it to .txt file to render the .txt (may able to RCE).
 - ☐ .svg (Self-XSS) to Account Takeover (steal cookie / token)
 - ☐ malicious file
 - ☐ .phar
 - ☐ .phtml
 - ☐ .pht
 - ☐ .aspx
 - ☐ .asp
 - ☐ .jsp
 - ☐ .war
 - ☐ .exe
 - ☐ .pdf (xss)
- ☐ Coupon Code

- ☐ VA Account Number Fuzzing
- ☐ Process Timing
 - ☐ No Rate Limit
- ☐ Integrity Checks
- ☐ Business Logic Data Validation
- ☐ Forge Requests (Forcing Disabled Features)
- ☐ Any Business Process Included
- ☐ Error Handling
 - ☐ Improper Error Handling
 - ☐ Stack Trace
- ☐ Client-Side Attack
 - ☐ DOM XSS
 - ☐ JS Execution
 - ☐ HTML Injection
 - ☐ Client-side URL Redirect
 - ☐ CSS Injection
 - ☐ Client-side Resource Manipulation
 - ☐ CORS
 - ☐ Cross Site Flashing
 - ☐ Clickjacking
 - ☐ Websocket
 - ☐ Web Messaging
 - ☐ Browser Storage
 - ☐ Local Storage
 - ☐ Session Storage
 - ☐ Cookie
 - ☐ Cross Site Script Inclusion
 - ☐ Reverse Tabnabbing
- ☐ Input Validation
 - ☐ XSS
 - ☐ Stored
 - ☐ DOM
 - ☐ Stored DOM XSS
 - ☐ Reflected DOM XSS
 - ☐ functions:
 - ☐ document.write()
 - ☐ document.writeln()
 - ☐ document.domain
 - ☐ element.innerHTML
 - ☐ element.outerHTML
 - ☐ element.insertAdjacentHTML
 - ☐ element.onevent

- ☐ add()
- ☐ after()
- ☐ append()
- ☐ animate()
- ☐ insertAfter()
- ☐ insertBefore()
- ☐ before()
- ☐ html()
- ☐ prepend()
- ☐ replaceAll()
- ☐ replaceWith()
- ☐ wrap()
- ☐ wrapInner()
- ☐ wrapAll()
- ☐ has()
- ☐ constructor()
- ☐ init()
- ☐ index()
- ☐ jQuery.parseHTML()
- ☐ \$.parseHTML()
- ☐ Reflected
- ☐ Parameter
 - ☐ Parameter Pollution
 - ☐ `?test=a&test=a` will get 2 outputs.
 - ☐ Arbitrary Parameter Input
 - ☐ Open Redirect
 - ☐ Forcing Parameter Value Input Validation
 - ☐ `id=1` into `id=testing` = from `{ "id": 1 }` to `{ "id": "testing" }`
- ☐ SQL Injection
 - ☐ file write
 - ☐ Second Order Request
 - ☐ authorized_keys write
 - ☐ file read
 - ☐ /proc/self
 - ☐ cmdline
 - ☐ environ
 - ☐ status
 - ☐ stat
 - ☐ cwd/
 - ☐ filename.extension
 - ☐ /etc
 - ☐ passwd

- ☐ groups
- ☐ shells
- ☐ apache config
- ☐ nginx config
- ☐ webserver config
- ☐ ssh/sshd_config
- ☐ systemd/systemd/sshd.service
- ☐ upload shell
- ☐ UDF
 - ☐ postgres
 - ☐ mssql
 - ☐ mysql
- ☐ blind boolean-based
- ☐ error-based
- ☐ union-based
- ☐ blind time-based
- ☐ stacked queries
- ☐ XML Injection
- ☐ LDAP Injection
- ☐ XPATH Injection`
- ☐ IMAP and SMTP Injection
- ☐ XXE
 - ☐ php wrapper
 - ☐ expect://
 - ☐ ssrf
 - ☐ blind oob
 - ☐ blind dtd
- ☐ SSTI
 - ☐ cek waf
 - ☐ cek blacklist word
 - ☐ enum setiap objeknya
 - ☐ pake Fenjing
 - ☐ <https://github.com/Marven11/Fenjing>
- ☐ SSRF
 - ☐ leak local port
 - ☐ leak pake responder
 - ☐ leak data/creds pake python server
 - ☐ leak data/creds pake ftp
- ☐ Open Redirect
- ☐ Command Injection
 - ☐ payloadallthethings is nice
 - ☐ %0A

- ☐ Unicode
 - ☐ Line Feed `\n`
 - ☐ Tab `\t`
 - ☐ Return `\r`
 - ☐ Alert `\a`
 - ☐ Backspace `\b`
 - ☐ Whitespace
 - ☐ <https://www.compart.com/en/unicode/>
- ☐ commix
- ☐ hacktricks command injection
- ☐ HTTP Smuggling
 - ☐ CL.TE
 - ☐ TE.CL
 - ☐ Account Takeover
 - ☐ TE.TE
- ☐ Local File Inclusion
 - ☐ /etc/stuff
 - ☐ /proc/self
 - ☐ environ
 - ☐ status
 - ☐ mounts
 - ☐ etc etc
 - ☐ /proc/cwd
 - ☐ Service Log /var/log
 - ☐ Service Error Log /var/log
 - ☐ If PHP, php chain gadget
 - ☐ https://github.com/synacktiv/php_filter_chain_generator/blob/main/php_filter_chain_generator.py
 - ☐ = --data-urlencode '0='
- ☐ Directory Traversal
 - ☐ ../
 - ☐//
 - ☐//
 - ☐ .../
 - ☐ ...//
 - ☐ ...//
- ☐ PHP Type Juggling
 - ☐ `0e` Loose Comparison `!=` and `==`
 - ☐ `0e` Strict Comparison `===` or `!==`
- ☐ Authorization
 - ☐ Directory Traversal

- ☐ Local File Inclusion
- ☐ BAC (Bypass Authorization Scheme) or (Broken Access Control)
- ☐ Privilege Escalation (Client Side, JavaScript)
- ☐ Privilege Escalation (Server-side)
- ☐ IDOR
 - ☐ GET
 - ☐ POST
 - ☐ PUT
 - ☐ DELETE
 - ☐ Depends On How Business Proceeds
- ☐ OAuth
 - ☐ Authorization Server Weakness
 - ☐ Authorization Client Weakness
 - ☐ XSS
 - ☐ Token In URL
- ☐ Session Management
 - ☐ Bentuk cookie
 - ☐ PHPSESSION
 - ☐ Flask Sign
 - ☐ flask-unsign
 - ☐ JWT
 - ☐ jwt.io
 - ☐ Serialization
 - ☐ Java Deserialization
 - ☐ ysoserial
 - ☐ PHP Deserialization
 - ☐ phpggc
 - ☐ ViewState Deserialization
 - ☐ ysoserial.net
 - ☐ JSESSION
- ☐ Kerentanan session
- ☐ Apa yang bisa dimanfaatkan dari session
 - ☐ ke akun lain
 - ☐ buat akses API
 - ☐ buat akses halaman
 - ☐ buat akses aset
- ☐ CSRF
- ☐ Session
 - ☐ Hijacking
 - ☐ Fixation
 - ☐ Puzzling
- ☐ Logout Functionality

- ☐ Identity Management
 - ☐ Perhatikan definisi rolenya
 - ☐ Perhatikan proses registrasi dan login
 - ☐ Pembuatan akun tanpa proses registrasi yang valid pada aplikasi
 - ☐ Username enumeration
- ☐ API Testing
 - ☐ GraphQL
 - ☐ Express
 - ☐ gRPC
 - ☐ JSON-RPC
 - ☐ SOAP
 - ☐ Apache Thrift
 - ☐ XML-RPC

Mobile (taught by akewcrafts)

- Check anti frida hook
 - Functions
 - Methods
 - Obfuscation Method
- Check anti tampering
 - Functions
 - Methods
 - Obfuscation Method
- Check anti frida detection
 - Functions
 - Methods
 - Obfuscation Method
- Check root detection
 - Functions
 - Methods
 - Obfuscation Method
- Check data handling storage
 - sqlite .db
 - internal storage
 - openFileInput()
 - openFileOutput()
 - sharedPreferences
 - Cloud Storage
- Check SSL Pinning
 - Functions

- Methods
- Obfuscation Method
- Check RASP (Runtime application self-protection)
 - is the RASP custom?
 - is the RASP internet product in the wild?
 - is the RASP open source?
 - is the RASP famous?
- Maybe there's
 - anti debugging?
 - anti virtualization?
 - mutex implementation?
 - any other protection stuff?
- FLUTTER (?!)

Javascript

- ☐ DOM XSS
- ☐ Javascript Files
 - ☐ Custom Headers
 - ☐ Custom Cookies
 - ☐ Browser Storage
 - ☐ Session Storage
 - ☐ Local Storage
 - ☐ POST, PUT, GET, DELETE, PATCH Endpoints
 - ☐ Custom Encryption
- ☐ Node JS / Express JS
 - ☐ Prototype Pollution
 - ☐ Check for spawned process for RCE `[object Object]` gadget
 - ☐ `child_process` or other similar stuff
 - ☐ If not, check all the calling conventions for `[object Object]`
 - ☐ Bypass the condition with:
 - ☐ `__proto__`
 - ☐ `constructor.prototype`
 - ☐ adding whitespace
 - ☐ adding null byte
 - ☐ adding unicode
 - ☐ adding double urlencode

Python

- ☐ Format String

- ☐ {people_obj.__init__.__globals__[CONFIG][KEY]}
- ☐ eval()
 - ☐ __import__('os').system('id')
- ☐ YAML Deserialization
 - ☐ <https://book.hacktricks.xyz/pentesting-web/deserialization/python-yaml-deserialization>
- ☐ Pickle Deserialization

```
import pickle, os, base64
class P(object):
    def __reduce__(self):
        return (os.system, ("/bin/bash -c '/bin/id > /tmp/pwned.txt'",))
print(base64.b64encode(pickle.dumps(P())))
```

- ☐ Werkzeug Console Pin Bypass
 - ☐ <https://github.com/wdahlenburg/werkzeug-debug-console-bypass/blob/main/README.md>
 - ☐ google it urself
- ☐ Sandbox escape
 - ☐ <https://book.hacktricks.xyz/generic-methodologies-and-resources/python/bypass-python-sandboxes>
- ☐ Prototype Pollution
 - ☐ <https://book.hacktricks.xyz/generic-methodologies-and-resources/python/class-pollution-pythons-prototype-pollution>
- ☐ Pyscript

```
<py-script>
    with open('/lib/python3.10/site-packages/_pyodide/_base.py', 'r') as fin:
        out = fin.read()
        print(out)
</py-script>
```

Java

- ☐ <https://github.com/KINGSABRI/godofwar>
- ☐ Java RMI
 - ☐ <https://github.com/gtc-de/remote-method-guesser>
 - ☐ ysoserial

PHP

- ☐ Magic Hashes

☐ Magic Bytes

☐ Functions

- ☐ preg_replace() command exec
- ☐ exec()
- ☐ system()
- ☐ shell_exec()
- ☐ passthru()
- ☐ using ``
- ☐ using fread(fopen("/bin/id", "r"), 4096)
- ☐ using proc_close(proc_open("id", array(), \$peler));
- ☐ using preg_replace('/.*\/e', 'system("whoami");', '');
- ☐ using pcntl_exec("/bin/id");
- ☐ using dl()
- ☐ file_put_contents('/tmp/peler.sh',
base64_decode('IyEvYmluL3NoCi9yZWFKZmxhZyA+IC90bXAvZmxhZy50eHQKCg=='));
chmod('/tmp/peler.sh', 0777); mail('', '', '', '', '-H \"exec /tmp/peler.sh\"'); echo
file_get_contents('/tmp/flag.txt');
- ☐ eval()
- ☐ assert()
- ☐ \$_GET['func_name'](\$_GET['argument']);
- ☐ require_once()
- ☐ require()
- ☐ include_once()
- ☐ include()
- ☐ file_gets_content()
- ☐ file_put_content()
- ☐ https://github.com/Medicean/as_bypass_php_disable_functions
- ☐ <https://github.com/giovannichhatta/disable-functions-bypass>
- ☐ Windows

- ☐ https://book.hacktricks.xyz/network-services-pentesting/pentesting-web/php-tricks-esp/php-useful-functions-disable_functions-open_basedir-bypass/disable_functions-bypass-php-less-than-5.2.9-on-windows