

Tugas
Manajemen Keamanan Informasi
“Data Collection and Vulnerability Assesment”



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Dosen Pengampuh
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Webstite : portalaruda.org


1. Data Collection

Proses mengumpulkan data yang diperlukan pada target.

Data dikumpulkan dari situs Whois, Nmap dan Netcraft dan domain yang dijadikan target yaitu portalaruda.org

Berikut data yang didapat dari situs tersebut

Menggunakan Netcraft

Network			
Site	http://portalaruda.org	Netblock Owner	GoDaddy.com, LLC
Domain	portalaruda.org	Nameserver	ns55.domaincontrol.com
IP address	166.62.5.1	DNS admin	dns@jomax.net
IPv6 address	Not Present	Reverse DNS	sg2nlhg746c1746.shr.prod.sin2.secureserver.net
Domain registrar	pir.org	Nameserver organisation	whois.wildwestdomains.com
Organisation	Universiti Teknologi Malaysia, U8C-403 Kolej Perdana, Johor Bahru, 81310, MY	Hosting company	GoDaddy
Top Level Domain	Organization entities (.org)	DNS Security Extensions	unknown
Hosting country	 US		

Hosting History					
Netblock owner	IP address	OS	Web server	Last seen	Refresh
GoDaddy.com, LLC 14455 N Hayden Road Suite 226 Scottsdale AZ US 85260	166.62.5.1	Linux	Apache	21-Mar-2017	Refresh

Tampilan diatas merupakan hasil scanning yang menghasilkan data Network dan Hosting History (IP Address, Web Server, Waktu Terakhir di Update)

Menggunakan Whois

DOMAIN INFORMATION	
Domain:	portalaruda.org
Registrar:	GoDaddy.com, LLC
Registration Date:	2012-02-26
Expiration Date:	2021-02-26
Updated Date:	2014-05-11
Status:	clientDeleteProhibited clientRenewProhibited clientTransferProhibited clientUpdateProhibited
Name Servers:	ns55.domaincontrol.com ns56.domaincontrol.com

REGISTRANT CONTACT	
Name:	Tole Sutikno
Organization:	Universiti Teknologi Malaysia
Street:	U8C-403 Kolej Perdana
City:	Johor Bahru
Postal Code:	81310
Country:	MY
Phone:	+60.75536518
Email:	thsutikno@gmail.com

ADMINISTRATIVE CONTACT

Name: Tole Sutikno
Organization: Universiti Teknologi Malaysia
Street: U8C-403 Kolej Perdana
City: Johor Bahru
Postal Code: 81310
Country: MY
Phone: +60.75536518
Email: **thsutikno@gmail.com**

TECHNICAL CONTACT

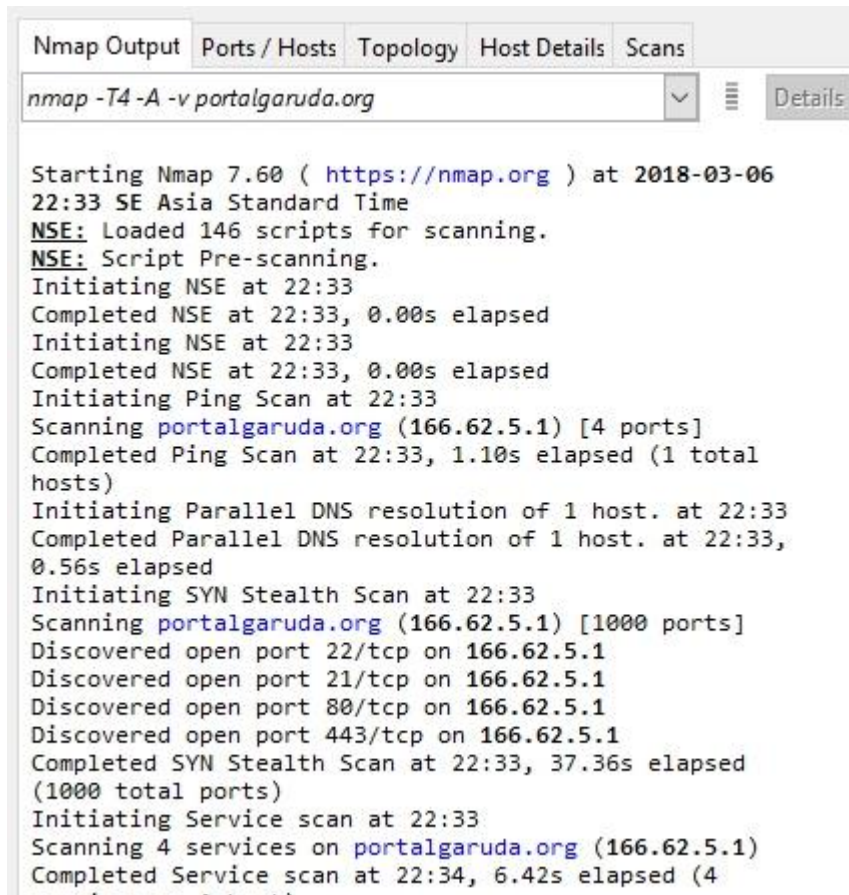
Name: Tole Sutikno
Organization: Universiti Teknologi Malaysia
Street: U8C-403 Kolej Perdana
City: Johor Bahru
Postal Code: 81310
Country: MY
Phone: +60.75536518
Email: **thsutikno@gmail.com**

RAW WHOIS DATA

```
Domain Name: PORTALGARUDA.ORG
Registry Domain ID: D164827408-LROR
Registrar WHOIS Server: whois.godaddy.com
Registrar URL: http://www.godaddy.com
Updated Date: 2014-05-11T00:20:13Z
Creation Date: 2012-02-26T17:17:34Z
Registry Expiry Date: 2021-02-26T17:17:34Z
Registrar Registration Expiration Date:
Registrar: GoDaddy.com, LLC
Registrar IANA ID: 146
Registrar Abuse Contact Email: abuse@godaddy.com
Registrar Abuse Contact Phone: +1.4806242505
Reseller:
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientRenewProhibited https://icann.org/epp#clientRenewProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Domain Status: clientUpdateProhibited https://icann.org/epp#clientUpdateProhibited
Registry Registrant ID: C148247806-LROR
Registrant Name: Tole Sutikno
Registrant Organization: Universiti Teknologi Malaysia
Registrant Street: U8C-403 Kolej Perdana
Registrant City: Johor Bahru
Registrant State/Province:
Registrant Postal Code: 81310
Registrant Country: MY
Registrant Phone: +60.75536518
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email: thsutikno@gmail.com
Registry Admin ID: C148247809-LROR
Admin Name: Tole Sutikno
Admin Organization: Universiti Teknologi Malaysia
Admin Street: U8C-403 Kolej Perdana
Admin City: Johor Bahru
Admin State/Province:
Admin Postal Code: 81310
Admin Country: MY
Admin Phone: +60.75536518
Admin Phone Ext:
Admin Fax:
Admin Fax Ext:
Admin Email: thsutikno@gmail.com
Registry Tech ID: C148247814-LROR
Tech Name: Tole Sutikno
Tech Organization: Universiti Teknologi Malaysia
Tech Street: U8C-403 Kolej Perdana
Tech City: Johor Bahru
Tech State/Province:
Tech Postal Code: 81310
Tech Country: MY
Tech Phone: +60.75536518
Tech Phone Ext:
Tech Fax:
Tech Fax Ext:
Tech Email: thsutikno@gmail.com
Name Server: NS55.DOMAINCONTROL.COM
Name Server: NS56.DOMAINCONTROL.COM
DNSSEC: unsigned
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of WHOIS database: 2018-03-05T08:31:55Z <<<
```

Tampilan diatas hasil scanning pada Whois, yang menampilkan data-data target mulai dari register sampai lokasi.

Nmap



```
nmap -T4 -A -v portalgaruda.org

Starting Nmap 7.60 ( https://nmap.org ) at 2018-03-06
22:33 SE Asia Standard Time
NSE: Loaded 146 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 22:33
Completed NSE at 22:33, 0.00s elapsed
Initiating NSE at 22:33
Completed NSE at 22:33, 0.00s elapsed
Initiating Ping Scan at 22:33
Scanning portalgaruda.org (166.62.5.1) [4 ports]
Completed Ping Scan at 22:33, 1.10s elapsed (1 total
hosts)
Initiating Parallel DNS resolution of 1 host. at 22:33
Completed Parallel DNS resolution of 1 host. at 22:33,
0.56s elapsed
Initiating SYN Stealth Scan at 22:33
Scanning portalgaruda.org (166.62.5.1) [1000 ports]
Discovered open port 22/tcp on 166.62.5.1
Discovered open port 21/tcp on 166.62.5.1
Discovered open port 80/tcp on 166.62.5.1
Discovered open port 443/tcp on 166.62.5.1
Completed SYN Stealth Scan at 22:33, 37.36s elapsed
(1000 total ports)
Initiating Service scan at 22:33
Scanning 4 services on portalgaruda.org (166.62.5.1)
Completed Service scan at 22:34, 6.42s elapsed (4
```

Pada hasil scanning ini. Dapat membuka 4 port (Open Port) yaitu:

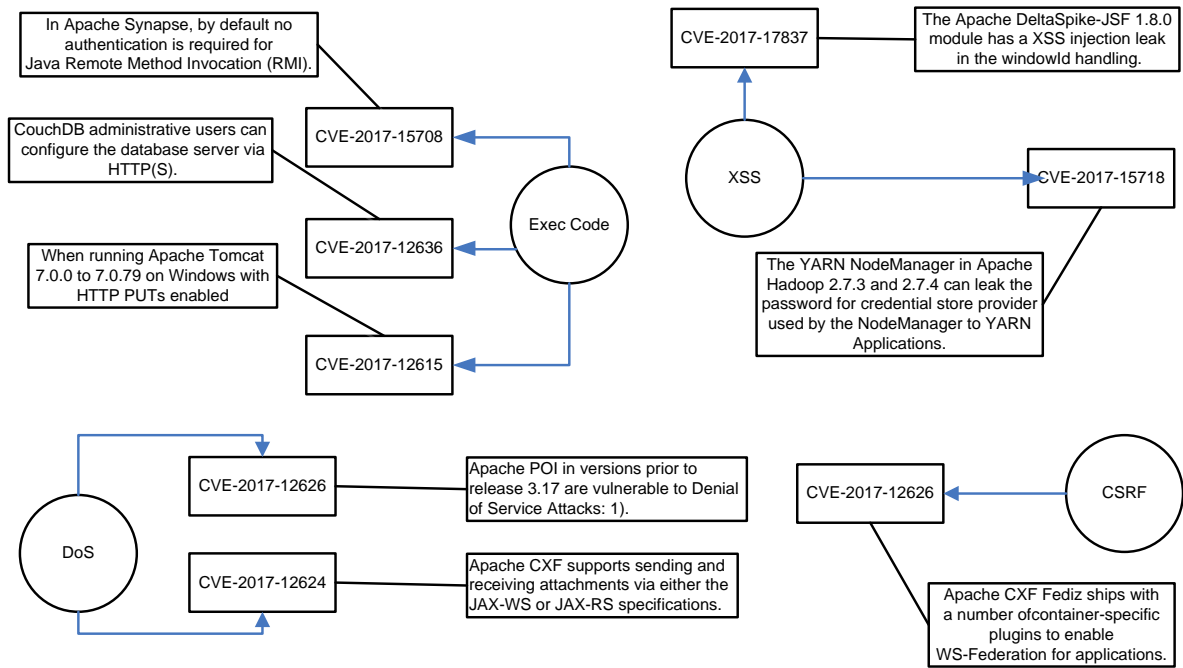
- Discovered open port 22/tcp on 166.62.5.1
- Discovered open port 443/tcp on 166.62.5.1
- Discovered open port 21/tcp on 166.62.5.1
- Discovered open port 80/tcp on 166.62.5.1

2. Vulnerability Assesment

Berikut ini beberapa Vulnerability yang ada. Pencarian vurnability dilakukan pada <https://www.cvedetails.com>

Webserver Apache :

Gambar berikut merupakan beberapa vurnability yang didapat pada CVE



Pada Apache ini dari vurnability yang ada, memiliki tingkat kompleksitas yang beragam mulai dari low, medium dan high.


Website Perpustakaan.go.id

1. Data Collection

Data dikumpulkan dari situs Whois, Nmap dan Netcraft dan domain yang dijadikan target yaitu perpustakaan.go.id

Berikut data yang didapat dari situs tersebut

Network

Site	http://perpustakaan.go.id	Netblock Owner	Perpustakaan Nasional RI
Domain	perpustakaan.go.id	Nameserver	bima.pnri.go.id
IP address	103.28.21.3	DNS admin	hostmaster@pnri.go.id
IPv6 address	Not Present	Reverse DNS	gw.pnri.go.id
Domain registrar	unknown	Nameserver organisation	unknown
Organisation	unknown	Hosting company	pnri.go.id
Top Level Domain	Indonesia (.go.id)	DNS Security Extensions	Enabled
Hosting country	 ID		


Hosting History

Netblock owner	IP address	OS	Web server	Last seen
Perpustakaan Nasional RI Government / Direct Member IDNIC Jl. Salemba Raya No. 28A Jakarta Pusat, 10430	103.28.21.3	Linux	Apache/2.4.6 CentOS OpenSSL/1.0.2k-fips PHP/7.1.14	6-Mar-2018 Refresh

Tampilan diatas merupakan hasil scanning yang menghasilkan data Network dan Hosting History (IP Address, Web Server, Waktu Terakhir di Update)

Who is

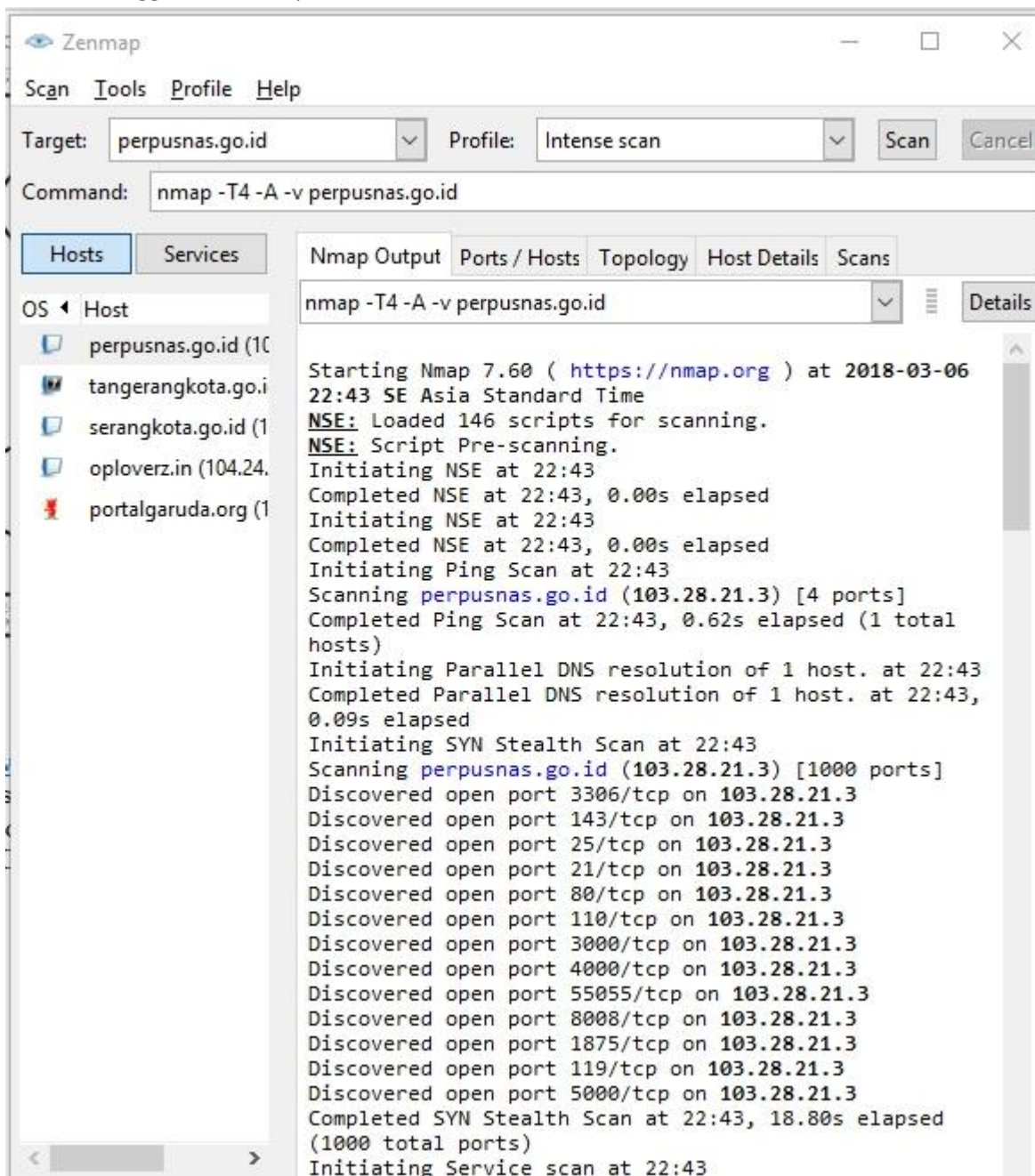
perpustakaan.go.id

Updated 19 minutes ago 

```
Domain ID:PANDI-DO285427
Domain Name:PERPUSNAS.GO.ID
Created On:27-Dec-2007 13:35:18 UTC
Last Updated On:17-Jun-2017 04:27:04 UTC
Expiration Date:03-Jan-2019 23:59:59 UTC
Status:ok
Registrant ID:wiratn-1278
Registrant Name:Wiratna Tritawirasta
Registrant Organization:Perpustakaan Nasional Republik Indonesia
Registrant Street1:Jl Salemba Raya 28-A
Registrant City:Jakarta
Registrant State/Province:DKI Jakarta
Registrant Postal Code:10430
Registrant Country:ID
Registrant Phone:+62.8561000707
Registrant Email:thatank@perpustakaan.go.id
Admin ID:tatang-1276
Admin Name:Tatang D Tjahyanto
Admin Organization:Perpustakaan Nasional Republik Indonesia
Admin Street1:Jl Salemba Raya 28-A
Admin City:Jakarta
Admin State/Province:DKI Jakarta
Admin Postal Code:10430
Admin Country:ID
Admin Phone:+62.8561000707
Admin Email:thatank@perpustakaan.go.id
Tech ID:tatang-1276
Tech Name:Tatang D Tjahyanto
Tech Organization:Perpustakaan Nasional Republik Indonesia
Tech Street1:Jl Salemba Raya 28-A
Tech City:Jakarta
Tech State/Province:DKI Jakarta
Tech Postal Code:10430
Tech Country:ID
Tech Phone:+62.8561000707
Tech Email:thatank@perpustakaan.go.id
Billing ID:tatang-1276
Billing Name:Tatang D Tjahyanto
Billing Organization:Perpustakaan Nasional Republik Indonesia
```

```
Billing Street:Jl Salemba Raya 28-A
Billing City:Jakarta
Billing State/Province:DKI Jakarta
Billing Postal Code:10430
Billing Country:ID
Billing Phone:+62.8561000707
Billing Email:thatank@perpusnas.go.id
Sponsoring Registrar ID:H4964483
Sponsoring Registrar Organization:Kementerian Komunikasi dan Informatika
Sponsoring Registrar Street:Jl. Medan Merdeka Barat No. 9
Sponsoring Registrar City:Jakarta Pusat
Sponsoring Registrar State/Province:Jakarta
Sponsoring Registrar Postal Code:10110
Sponsoring Registrar Country:ID
Sponsoring Registrar Phone:622138433507
Sponsoring Registrar Website:domain.go.id
Name Server:BIMA.PNRI.GO.ID
Name Server:NS1.CNI.NET.ID
DNSSEC:Unsigned
```

Menggunakan Nmap



Zenmap

Scan Tools Profile Help

Target: Profile: Scan Cancel

Command:

Hosts Services

OS Host

- perpusnas.go.id (1)
- tangerangkota.go.i
- serangkota.go.id (1)
- oploverz.in (104.24.
- portalgaruda.org (1)

Nmap Output Ports / Hosts Topology Host Details Scans

nmap -T4 -A -v perpusnas.go.id Details

```
Starting Nmap 7.60 ( https://nmap.org ) at 2018-03-06
22:43 SE Asia Standard Time
NSE: Loaded 146 scripts for scanning.
NSE: Script Pre-scanning.
Initiating NSE at 22:43
Completed NSE at 22:43, 0.00s elapsed
Initiating NSE at 22:43
Completed NSE at 22:43, 0.00s elapsed
Initiating Ping Scan at 22:43
Scanning perpusnas.go.id (103.28.21.3) [4 ports]
Completed Ping Scan at 22:43, 0.62s elapsed (1 total
hosts)
Initiating Parallel DNS resolution of 1 host. at 22:43
Completed Parallel DNS resolution of 1 host. at 22:43,
0.09s elapsed
Initiating SYN Stealth Scan at 22:43
Scanning perpusnas.go.id (103.28.21.3) [1000 ports]
Discovered open port 3306/tcp on 103.28.21.3
Discovered open port 143/tcp on 103.28.21.3
Discovered open port 25/tcp on 103.28.21.3
Discovered open port 21/tcp on 103.28.21.3
Discovered open port 80/tcp on 103.28.21.3
Discovered open port 110/tcp on 103.28.21.3
Discovered open port 3000/tcp on 103.28.21.3
Discovered open port 4000/tcp on 103.28.21.3
Discovered open port 55055/tcp on 103.28.21.3
Discovered open port 8008/tcp on 103.28.21.3
Discovered open port 1875/tcp on 103.28.21.3
Discovered open port 119/tcp on 103.28.21.3
Discovered open port 5000/tcp on 103.28.21.3
Completed SYN Stealth Scan at 22:43, 18.80s elapsed
(1000 total ports)
Initiating Service scan at 22:43
```

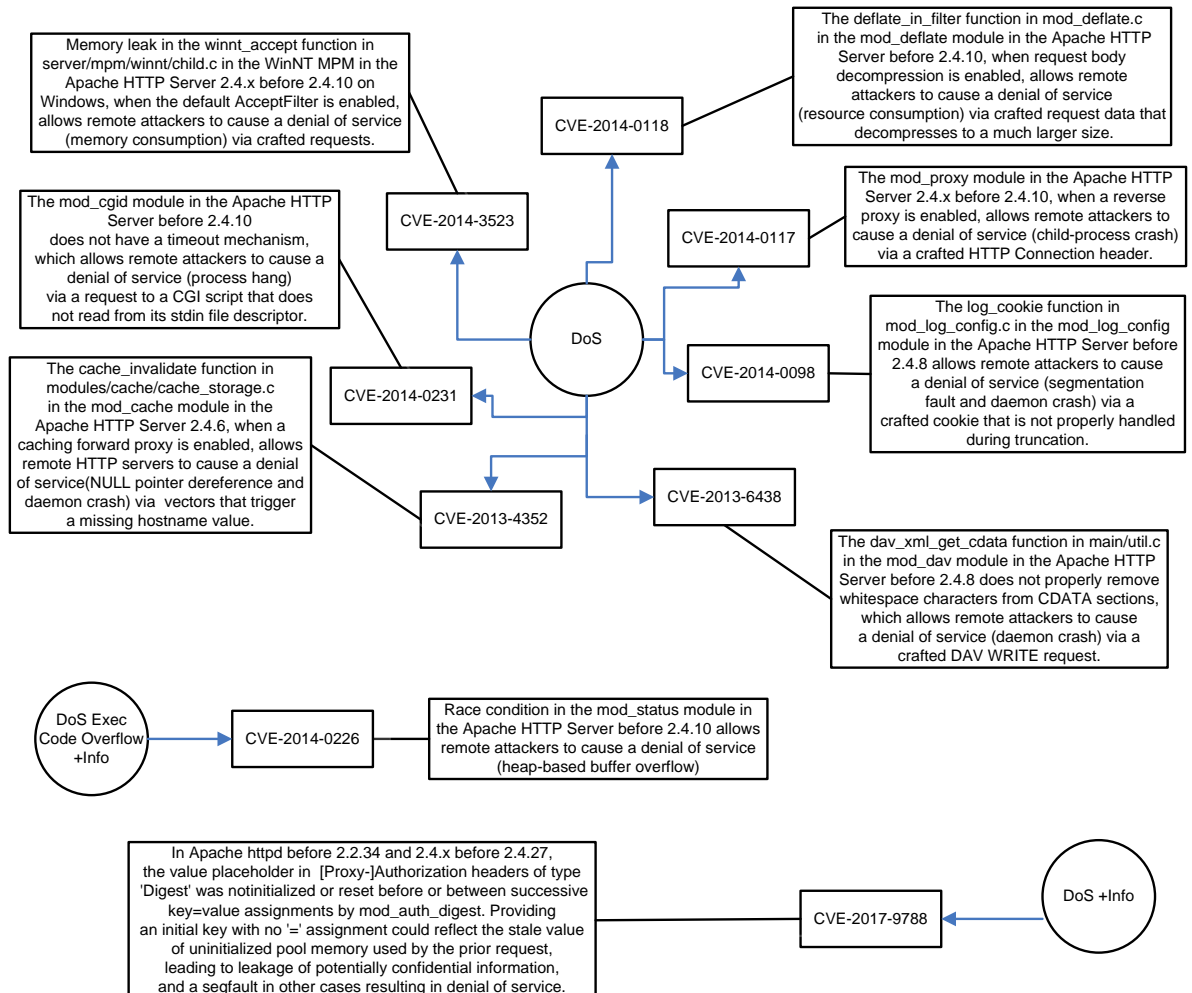
Terdapat 4 port pada situs perpurnas.go.id

2. Vulnerability Assesment

Berikut ini Vulnerability yang ada. Pencarian vurnability dilakukan pada

<https://www.cvedetails.com>.

Berikut ini beberapa Vulnerability yang ada pada Apache 2.4.6, terdapat 9 vurnability



Pada Apache 2.4.6 ini dari 9 vurnability yang ada, memiliki tingkat kompleksitas low dan medium tidak ada high (6 low dan 3 medium).