



EAST WEST UNIVERSITY

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Group Number: 507

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OS:

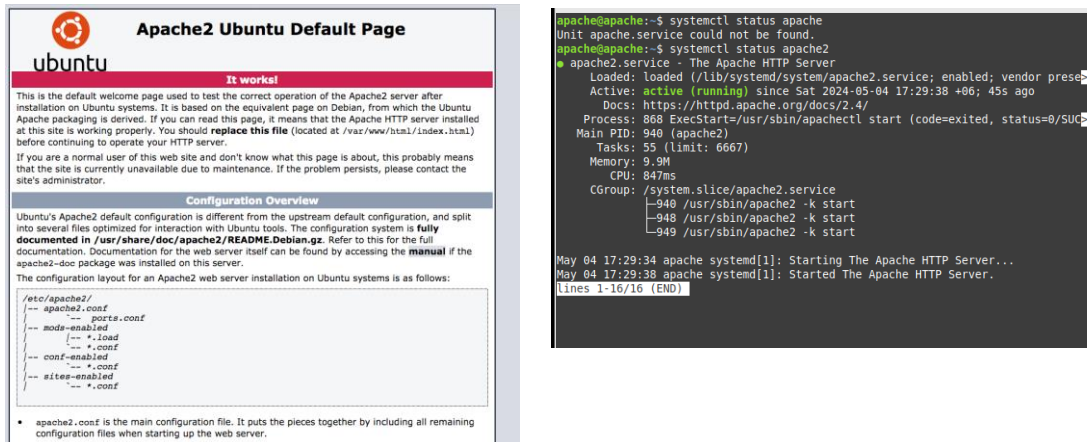
Linux is best. But windows will also do. We are using a Debian based Linux.

Software and Configuration Needed:

1. Bind9 for DNS.
2. OpenSSL for CA infrastructure.
3. Apache2 for Webhosting.
4. Snort for Intrusion Detection.
5. UFW for Firewall.
6. If VM, convert the network to host-only network from virtual machine's settings.

Configuring Apache2:

1. Install Apache2.
2. Go to browser and type localhost to test the server is running (systemctl status apache2).



The image shows two side-by-side screenshots. The left screenshot displays the 'Apache2 Ubuntu Default Page' with the Ubuntu logo and a message stating 'It works!'. It explains that this is the default welcome page used to test the correct operation of the Apache2 server after installation on Ubuntu systems. It also provides a 'Configuration Overview' section, stating that Ubuntu's Apache2 default configuration is different from the upstream default configuration, and split into several files optimized for interaction with Ubuntu tools. The right screenshot is a terminal window showing the output of the 'systemctl status apache2' command. The output indicates that the 'apache2.service' is 'active (running)' since Sat 2024-05-04 17:29:38 +06; 45s ago. It also shows the process details for the Apache HTTP Server, including the loaded path, active status, docs, process ID, tasks, memory, CPU, and CGroup.

```
apache@apache:~$ systemctl status apache
Unit apache.service could not be found.
apache@apache:~$ systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor prese
   Active: active (running) since Sat 2024-05-04 17:29:38 +06; 45s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 868 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUC
   Main PID: 940 (apache2)
    Tasks: 53 (limit: 6667)
   Memory: 9.9M
      CPU: 847ms
   CGroup: /system.slice/apache2.service
           └─940 /usr/sbin/apache2 -k start
             └─948 /usr/sbin/apache2 -k start
               └─949 /usr/sbin/apache2 -k start

May 04 17:29:34 apache systemd[1]: Starting The Apache HTTP Server...
May 04 17:29:38 apache systemd[1]: Started The Apache HTTP Server.
lines 1-16/16 (END)
```

3. Change user to super or root. *super su*
4. `mkdir /var/www/< name of your domain >` example, `mkdir /var/www/fardin.home`
5. create a index.html for testing. `nano /var/www/fardin.home/index.html`
6. change directory to /etc/apache2/sites-available. `cd /etc/apache2/sites – available`
7. make a new conf file for fardin.home. `cp 000 – default.conf fardin.home.conf`

8. Edit the configuration file of your website to your need. I am writing down mine.

```
<VirtualHost *:443>
    SSLEngine on
    ServerAdmin mfardinr@gmail.com
    ServerName fardin.home
    ServerAlias www.fardin.home
    DocumentRoot /var/www/fardin.home
    SSLCertificateFile "/var/www/fardin.home/generated/chained.crt"
    SSLCertificateKeyFile "/var/www/fardin.home/generated/server.key"
    ErrorLog ${APACHE_LOG_DIR}/error.log
    CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
```

```
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
```

9. Now we have to enable site the new conf file. `a2ensite fardin.home.conf`
10. Now we have to disable default site (optional). `a2dissite 000 – default.conf`
11. Now enable SSL module. `a2enmod ssl`
12. Now we have to restart the apache2 `systemctl restart apache2`
13. Now if we go to the browser and type www.fardin.home we should get our website.



Configuring Bind9:

1. Change user to super or root. *super su*
2. Change directory to /etc/bind. *cd /etc/bind*
3. Open named.conf.options with nano. *nano named.conf.options*
4. Configure a forwarder and subnet for the service.

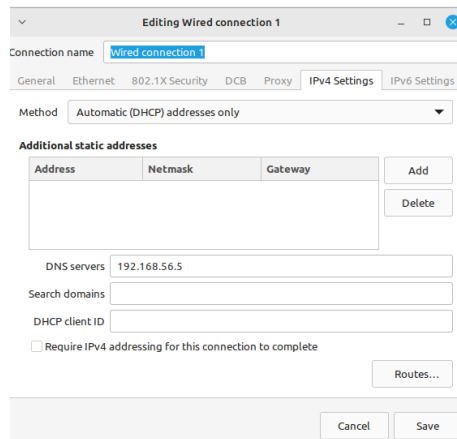
```
acl internal-network{
192.168.56.0/24;
};

options {
    directory "/var/cache/bind";

    allow-query { localhost; internal-network; };
    allow-transfer { localhost; };
    forwarders { 1.1.1.1; 8.8.8.8; };

    dnssec-validation auto;
    listen-on-v6 { any; };
};
```

5. Stop the system's DNS. *systemctl stop systemd -- resolved*
6. Disable the system's DNS on startup. *systemctl disable systemd -- resolved*
7. Add the DNS's IP to the network adapter.



8. Change the dns to your system's ip. `nano /etc/resolve.conf`

9. Now open `named.conf.local`. `nano named.conf.local`

10. Add forward zone for your website.

```
zone "fardin.home" IN{
                                type master;
                                file "/etc/bind/forward.fardin.home";
                                allow-update { any; };
                                };
```

11. Now create the forward file. `nano forward.fardin.home`

```
$TTL 604800
@      IN      SOA    www.fardin.home. mfardin.gmail.com. (
                                2024042400   ; Serial
                                604800        ; Refresh
                                86400         ; Retry
                                2419200      ; Expire
                                604800 )     ; Negative Cache TTL
;
@      IN      NS     www.fardin.home.
www.fardin.home.  IN      A      192.168.56.5
ns1.fardin.home.  IN      A      192.168.56.5
```

12. Now restart the named. `systemctl restart named`

13. Now check the status. If everything okay it should be active. `systemctl status named`

14. Now use `nslookup` tool to see if the DNS is working.

`nslookup www.fardin.home 192.168.56.5`

```
root@apache:/home/apache# nslookup www.fardin.home 192.168.56.5
Server:      192.168.56.5
Address:     192.168.56.5#53

Name:   www.fardin.home
Address: 192.168.56.5

root@apache:/home/apache#
```

Create Hierarchical CA Infrastructure:

1. Create a ca directory at your desired location. *mkdir ca*
2. Create file structure.
 - a. *mkdir -p {root-ca,sub-ca,server}/{private,certs,index,serial,pem,crl,csr}*
 - b. *mkdir generated*
3. Create index files
 - a. *touch root-ca/index/index*
 - b. *touch sub-ca/index/index*
4. Create serial files
 - a. *openssl rand -hex 16 > root-ca/serial/serial*
 - b. *openssl rand -hex 16 > sub-ca/serial/serial*
5. Create the conf files.
 - a. *Nano root-ca/root-ca.conf*

#root-ca.conf

[ca]

default_ca = CA_default

[CA_default]

dir = root-ca
certs = \$dir/certs
crl_dir = \$dir/crl
new_certs_dir = \$dir/pem
database = \$dir/index/index
serial = \$dir/serial/serial
RANDFILE = \$dir/private/.rand
private_key = \$dir/private/ca.key


```
certificate = $dir/certs/ca.crt
crlnumber = $dir/crlnumber
crl = $dir/crl/ca.crl
crl_extensions = crl_ext
default_crl_days = 30
default_md = sha256
```

```
name_opt = ca_default
cert_opt = ca_default
default_days = 365
preserve = no
policy = policy_strict
```

```
[ policy_strict ]
countryName = supplied
stateOrProvinceName = supplied
organizationName = match
organizationalUnitName = optional
commonName = supplied
emailAddress = optional
```

```
[ policy_loose }
countryName = optional
stateOrProvinceName = optional
localityName = optional
organizationName = optional
organizationalUnitName = optional
commonName = supplied
emailAddress = optional
```

```

[ req ]
# Options for the req tool, man req.
default_bits = 2048
distinguished_name = req_distinguished_name
string_mask = utf8only
default_md = sha256
# Extension to add when the -x509 option is used.
x509_extensions = v3_ca

[ req_distinguished_name ]
countryName          = Country Name (2 letter code)
stateOrProvinceName  = State or Province Name
localityName          = Locality Name
0.organizationName    = Organization Name
organizationalUnitName = Organizational Unit Name
commonName            = Common Name
emailAddress          = Email Address
countryName_default  = BD
stateOrProvinceName_default = DHK
localityName_default = RAMPURA
0.organizationName_default = ACME LTD
organizationalUnitName_default = ACME ROOT
commonName_default   = rootCA

[ v3_ca ]
# Extensions to apply when createing root ca
# Extensions for a typical CA, man x509v3_config
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
basicConstraints = critical, CA:true
keyUsage = critical, digitalSignature, cRLSign, keyCertSign

```

```
[ v3_intermediate_ca ]
# Extensions to apply when creating intermediate or sub-ca
# Extensions for a typical intermediate CA, same man as above
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
#pathlen:0 ensures no more sub-ca can be created below an intermediate
basicConstraints = critical, CA:true, pathlen:0
keyUsage = critical, digitalSignature, cRLSign, keyCertSign
```

```
[ server_cert ]
# Extensions for server certificates
basicConstraints = CA:FALSE
nsCertType = server
nsComment = "OpenSSL Generated Server Certificate"
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer:always
keyUsage = critical, digitalSignature, keyEncipherment
extendedKeyUsage = serverAuth
```

b. *Nano sub – ca/sub – ca.conf*

```
#sub-ca.conf

[ca]
default_ca = CA_default

[CA_default]
dir = sub-ca
```

```
certs    = $dir/certs
crl_dir  = $dir/crl
new_certs_dir = $dir/pem
database = $dir/index/index
serial   = $dir/serial/serial
RANDFILE = $dir/private/.rand
private_key = $dir/private/sub-ca.key
certificate = $dir/certs/sub-ca.crt
crlnumber = $dir/crlnumber
crl      = $dir/crl/ca.crl
crl_extensions = crl_ext
default_crl_days = 30
default_md = sha256
name_opt = ca_default
cert_opt = ca_default
default_days = 365
preserve = no
policy    = policy_loose
```

```
[ policy_strict ]
```

```
countryName = supplied
stateOrProvinceName = supplied
organizationName = match
organizationalUnitName = optional
commonName = supplied
emailAddress = optional
```

```
[ policy_loose ]
```

```
countryName = optional
stateOrProvinceName = optional
localityName = optional
```

organizationName = optional
organizationalUnitName = optional
commonName = supplied
emailAddress = optional

[req]

Options for the req tool, man req.

default_bits = 2048

distinguished_name = req_distinguished_name

string_mask = utf8only

default_md = sha256

Extension to add when the -x509 option is used.

x509_extensions = v3_ca

[req_distinguished_name]

countryName = Country Name (2 letter code)

stateOrProvinceName = State or Province Name

localityName = Locality Name

0.organizationName = Organization Name

organizationalUnitName = Organizational Unit Name

commonName = Common Name

emailAddress = Email Address

countryName_default = BD

stateOrProvinceName_default = DHK

localityName_default = RAMPURA

0.organizationName_default = ACME LTD

organizationalUnitName_default = ACME SubCA A

commonName_default = SubCA A

[v3_ca]

```

# Extensions to apply when createing root ca
# Extensions for a typical CA, man x509v3_config
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
basicConstraints = critical, CA:true
keyUsage = critical, digitalSignature, cRLSign, keyCertSign

[ v3_intermediate_ca ]
# Extensions to apply when creating intermediate or sub-ca
# Extensions for a typical intermediate CA, same man as above
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid:always,issuer
#pathlen:0 ensures no more sub-ca can be created below an intermediate
basicConstraints = critical, CA:true, pathlen:0
keyUsage = critical, digitalSignature, cRLSign, keyCertSign

[ server_cert ]
# Extensions for server certificates
basicConstraints = CA:FALSE
nsCertType = server
nsComment = "OpenSSL Generated Server Certificate"
subjectKeyIdentifier = hash
authorityKeyIdentifier = keyid,issuer:always
keyUsage = critical, digitalSignature, keyEncipherment
extendedKeyUsage = serverAuth
subjectAltName = @alt_names

[alt_names]
DNS.1 = www.fardin.home
DNS.2 = *.fardin.home
DNS.3 = localhost

```

IP.1 = 127.0.0.1

IP.2 = ::1

#besure to change the alt_names

c. *Nano openssl – san. ssl*

```
[ req ]
```

```
default_bits      = 2048
```

```
distinguished_name = req_distinguished_name
```

```
req_extensions     = req_ext
```

```
[ req_distinguished_name ]
```

```
countryName       = Country Name (2 letter code)
```

```
stateOrProvinceName = State or Province Name (full name)
```

```
localityName      = Locality Name (eg, city)
```

```
organizationName  = Organization Name (eg, company)
```

```
commonName        = Common Name (e.g. server FQDN or YOUR name)
```

```
# Optionally, specify some defaults.
```

```
countryName_default = BD
```

```
stateOrProvinceName_default = DHK
```

```
localityName_default = Agargaon
```

```
0.organizationName_default = Example Limited
```

```
organizationalUnitName_default = IT
```

```
emailAddress_default = reshma@gmail.com
```

```
[ req_ext ]
```

```
subjectAltName = @alt_names
```

```
[alt_names]
DNS.1 = www.fardin.home
DNS.2 = *.fardin.home
DNS.3 = localhost
IP.1 = 127.0.0.1
IP.2 = ::1
#besure to change the alt_names
```

6. Create keys for ca. For a and b you will have to enter a confidential phrase of your choosing.

- a. *openssl genrsa -aes256 -out root-ca/private/ca.key 2048*
- b. *openssl genrsa -aes256 -out sub-ca/private/sub-ca.key 2048*
- c. *openssl genrsa -out server/private/server.key 2048*

7. Create root certificate. Here you can change anything you want like organization name, unite name etc.

```
openssl req -config root-ca/root-ca.conf -key root
             -ca/private/ca.key -new -x509 -days 7305 -sha256
             -extensions v3_ca -out root-ca/certs/ca.crt
```

8. Request for sub-ca certificate. Repeat this step **if Multiple CA**. Organization name should match with root ca. Other then that you can change anything you like.

```
openssl req -config sub-ca/sub-ca.conf -new -key sub
             -ca/private/sub-ca.key -sha256 -out sub-ca/csr/sub
             -ca.csr
```


9. Sign the sub-ca.csr using rootca

```
openssl ca -config root - ca/root - ca.conf  
          - extensions v3_intermediate_ca - days 365 - notext  
          - in sub - ca/csr/sub - ca.csr - out sub - ca/certs/sub  
          - ca.crt
```

10. Generating the server certificate signing request. Be sure to change the openssl-san.cnf file. Or do it from terminal prompt.

```
openssl req -key server/private/server.key -new -sha256  
          - out server/csr/server.csr - config ./openssl - san.cnf
```

11. Sign the server.csr using the sub-ca.

```
openssl ca -config sub - ca/sub - ca.conf - extensions server_cert  
          - days 365 - notext - in server/csr/server.csr  
          - out server/certs/server.crt
```

12. Create the chained crt.

```
cat server/certs/server.crt sub - ca/certs/sub - ca.crt root  
    - ca/certs/ca.crt > ./generated/chained.crt
```

13. Now you need to add three lines in the /etc/apache/sites-available/fardin.home.conf which will point to the certificate file and certificate key of the website.

SSLEngine on

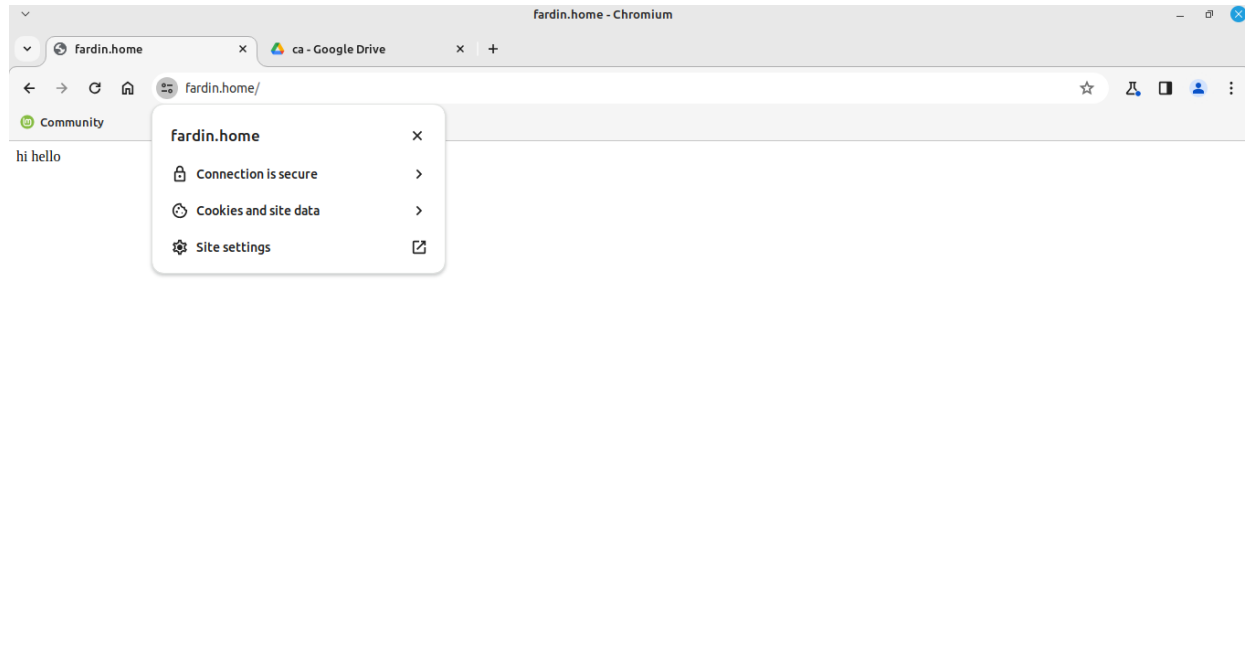
SSLCertificateFile "/var/www/fardin.home/generated/chained.crt"

SSLCertificateKeyFile "/var/www/fardin.home/generated/server.key"

14. Now we have to restart the apache2 *systemctl restart apache2*

15. Go to your browser and import the ~/ca/root-ca/certs/ca.crt

16. Now if we go to <https://www.fardin.home> we should see that it has a padlock icon.

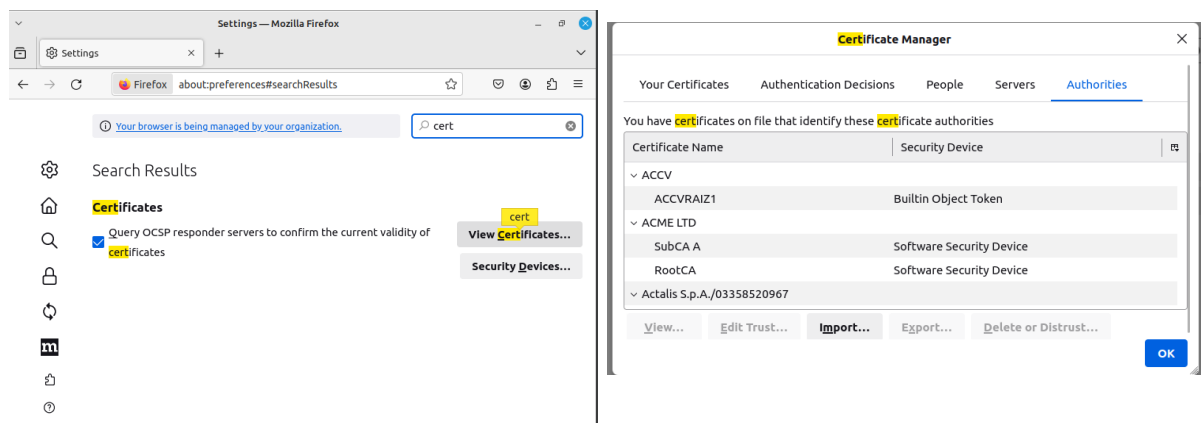


Client Configuration:

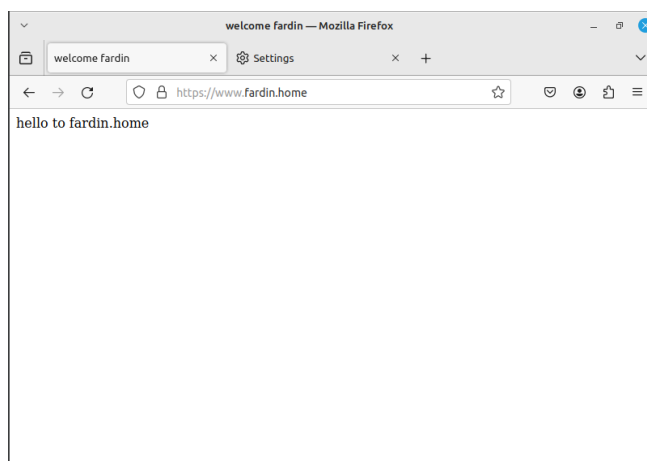
1. Turn host-only network in Virtual Machine's network settings.
2. Change the DNS from settings page inside the installed distribution's settings.
3. Change to superuser or root
4. Edit resolve.conf. change the IP address to DNS's IP address. Ex. 192.168.56.5.

```
nano /etc/resolve.conf
```

5. Import the root-ca.crt form ca server.
6. Install it using browser's settings page



7. Enable https only from browser's settings page
8. Now if you visit <https://www.fardin.home> you will have a secure connection.



Configure OpenSSH:

1. Depending on the flavor of Linux you may already have SSH server installed. Check using `systemctl status ssh`
2. Now we have to change the port number on which openSSH will run. `nano /etc/ssh/sshd_config`
3. Find commented out Port 22. Remove the comment and replace it with your choice. Ex Port 3000.
4. Allow the port on UFW (if enable). `sudo ufw allow 3000`
5. Restart OpenSSH. `sudo systemctl restart ssh`
6. Now go to a client pc's terminal. `ssh apache@www.fardin.home -p 3000`

```
client1@client1:~$ ssh apache@www.fardin.home -p 3000
apache@www.fardin.home's password:

Last login: Sat May  4 22:04:50 2024 from 192.168.56.6
apache@apache:~$ whoami
apache
apache@apache:~$
```

Configure UFW:

1. Change user to root. *sudo su*
2. Enable UFW. *ufw enable*
3. Deny all ports. *sudo ufw default deny*
4. Allow all the necessary ports ex. 22, 53, 80, 443, 3000. *ufw allow 22*

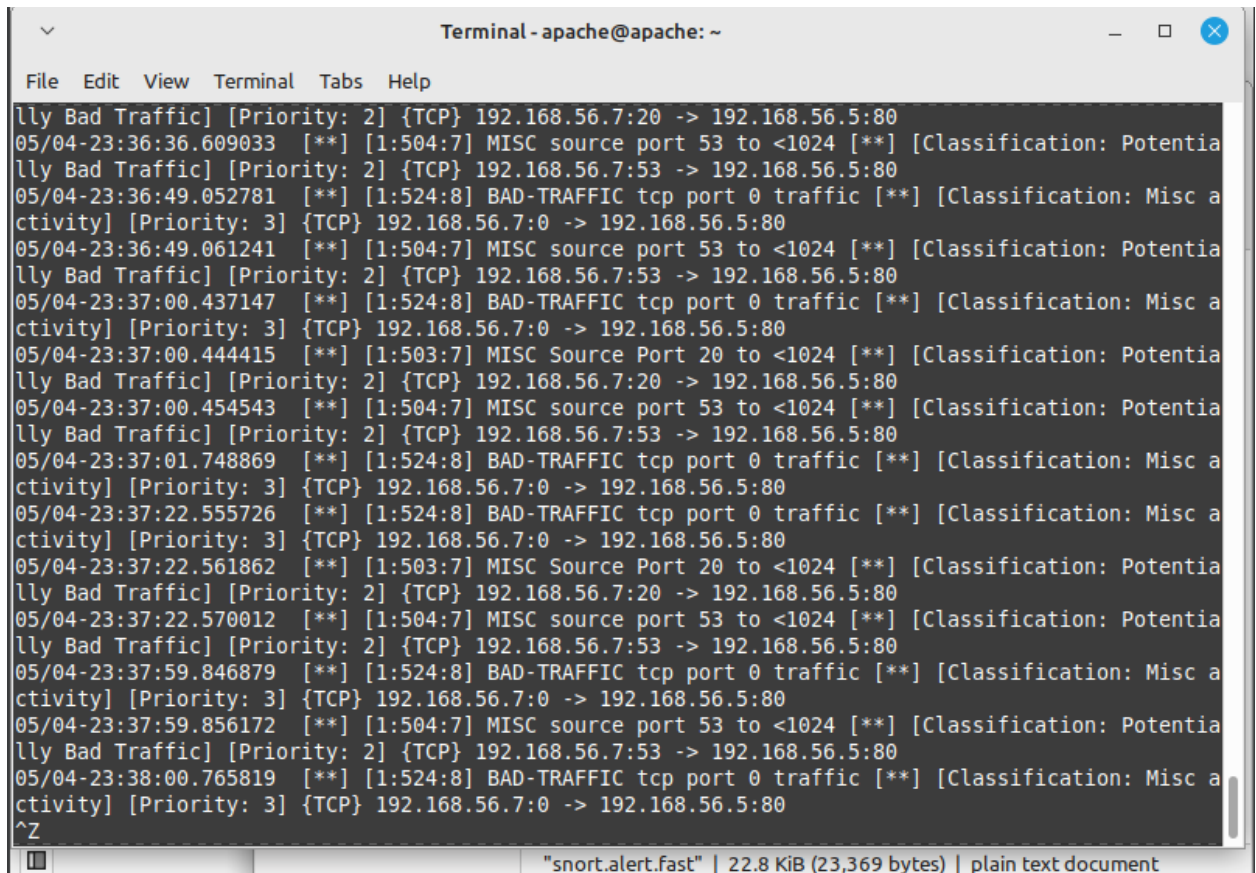
```
File Edit View Terminal Tabs Help
apache@apache:~$ ufw status
ERROR: You need to be root to run this script
apache@apache:~$ sudo !!
sudo ufw status
Status: active

To Action From
--
Apache ALLOW Anywhere
Apache Full ALLOW Anywhere
Bind9 ALLOW Anywhere
22/tcp ALLOW Anywhere
OpenSSH DENY Anywhere
3000 ALLOW Anywhere
Apache (v6) ALLOW Anywhere (v6)
Apache Full (v6) ALLOW Anywhere (v6)
Bind9 (v6) ALLOW Anywhere (v6)
22/tcp (v6) ALLOW Anywhere (v6)
OpenSSH (v6) DENY Anywhere (v6)
3000 (v6) ALLOW Anywhere (v6)

apache@apache:~$
```

Configuring Snort:

1. `sudo apt install snort`
2. Change to root user. `sudo su`
3. Go to snort config directory. `cd /etc/snort/`
4. Open snort.conf. `nano snort.conf`
5. Change the home net to your subnet. Ex. `ipvar HOME_NET 192.168.56/24`
6. Run this command `snort -A console -c /etc/snort/snort.conf`
7. If any intrusion is detected it will log the data in `/var/log/snort/snort.alert.fast`

A terminal window titled "Terminal - apache@apache: ~" showing the output of the Snort command. The output consists of multiple lines of log entries. Each line starts with a timestamp (e.g., 05/04-23:36:36.609033), followed by priority and protocol information in brackets (e.g., [**] [1:504:7]), and then a description of the detected activity (e.g., MISC source port 53 to <1024). The descriptions include classifications like "Potential Bad Traffic" or "BAD-TRAFFIC tcp port 0 traffic". The terminal also shows a menu bar with "File Edit View Terminal Tabs Help" and a status bar at the bottom indicating the file "snort.alert.fast" is 22.8 KiB (23,369 bytes) and is a plain text document.

```
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:20 -> 192.168.56.5:80
05/04-23:36:36.609033  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:36:49.052781  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:36:49.061241  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:37:00.437147  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:00.444415  [**] [1:503:7] MISC Source Port 20 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:20 -> 192.168.56.5:80
05/04-23:37:00.454543  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:37:01.748869  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:22.555726  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:22.561862  [**] [1:503:7] MISC Source Port 20 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:20 -> 192.168.56.5:80
05/04-23:37:22.570012  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:37:59.846879  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:59.856172  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentia
lly Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:38:00.765819  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc a
ctivity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
^Z
"snort.alert.fast" | 22.8 KiB (23,369 bytes) | plain text document
```

```
05/04-23:37:00.444415  [**] [1:503:7] MISC Source Port 20 to <1024 [**] [Classification: Potentially Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:20 -> 192.168.56.5:80
05/04-23:37:00.454543  [**] [1:504:7] MISC source port 53 to <1024 [**] [Classification: Potentially Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:53 -> 192.168.56.5:80
05/04-23:37:01.748870  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc activity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:22.555727  [**] [1:524:8] BAD-TRAFFIC tcp port 0 traffic [**] [Classification: Misc activity] [Priority: 3] {TCP} 192.168.56.7:0 -> 192.168.56.5:80
05/04-23:37:22.561862  [**] [1:503:7] MISC Source Port 20 to <1024 [**] [Classification: Potentially Bad Traffic] [Priority: 2] {TCP} 192.168.56.7:20 -> 192.168.56.5:80
```

Here 192.168.56.5 is our server. And 192.168.56.7 is the attacker.

Configure Hping3:

1. Install Hping3. *sudo apt install hping3*
2. Run command for SYN Flood attack

sudo hping3 -S --flood -V -p 80 192.168.56.5

```
client1@client1:~$ sudo hping3 -S --flood -V -p 80 192.168.56.5
using enp0s17, addr: 192.168.56.7, MTU: 1500
HPING 192.168.56.5 (enp0s17 192.168.56.5): S set, 40 headers + 0 data bytes
hping in flood mode, no replies will be shown
81:
82:
^C
--- 192.168.56.5 hping statistic ---
2051859 packets transmitted, 0 packets received, 100% packet loss
round-trip min/avg/max = 0.0/0.0/0.0 ms
client1@client1:~$
```