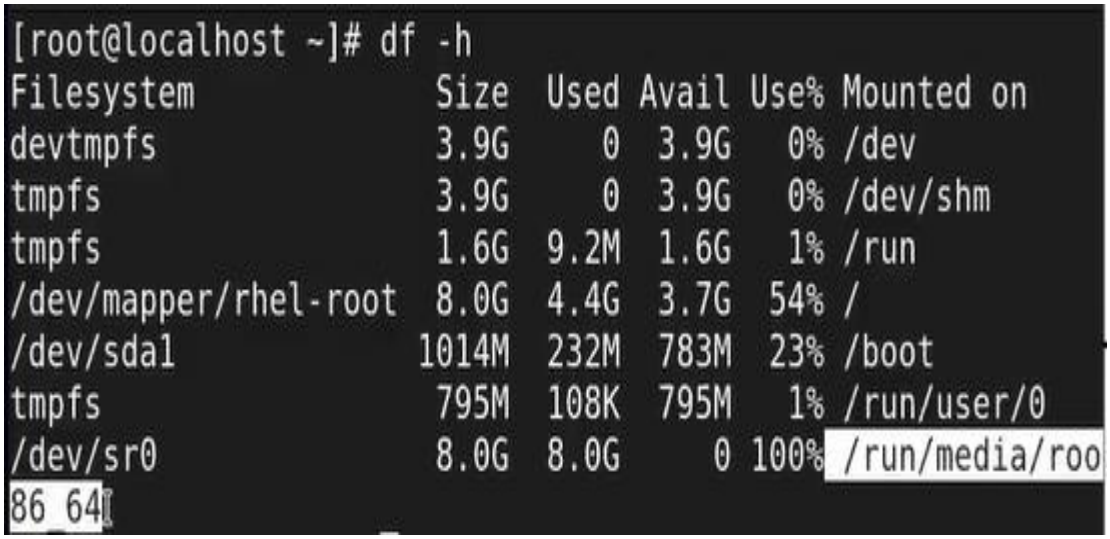
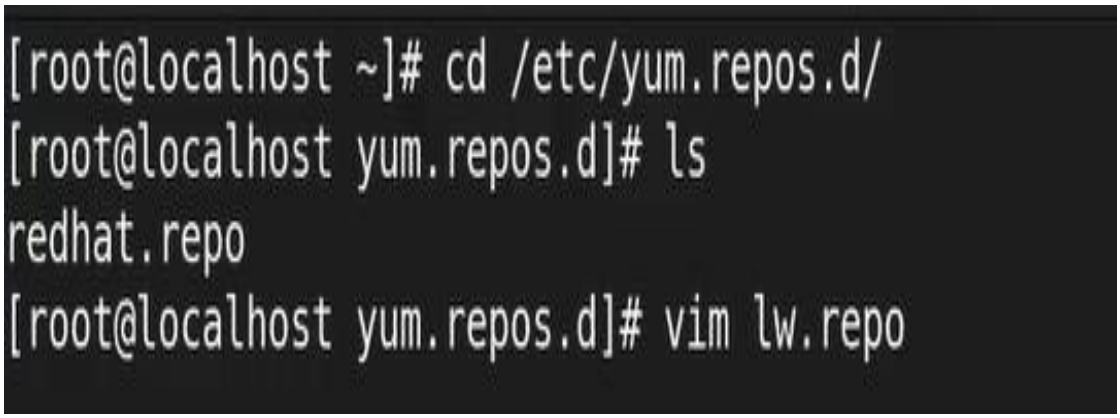
RHEL9

Session 3 – 15th October 2022 Summary

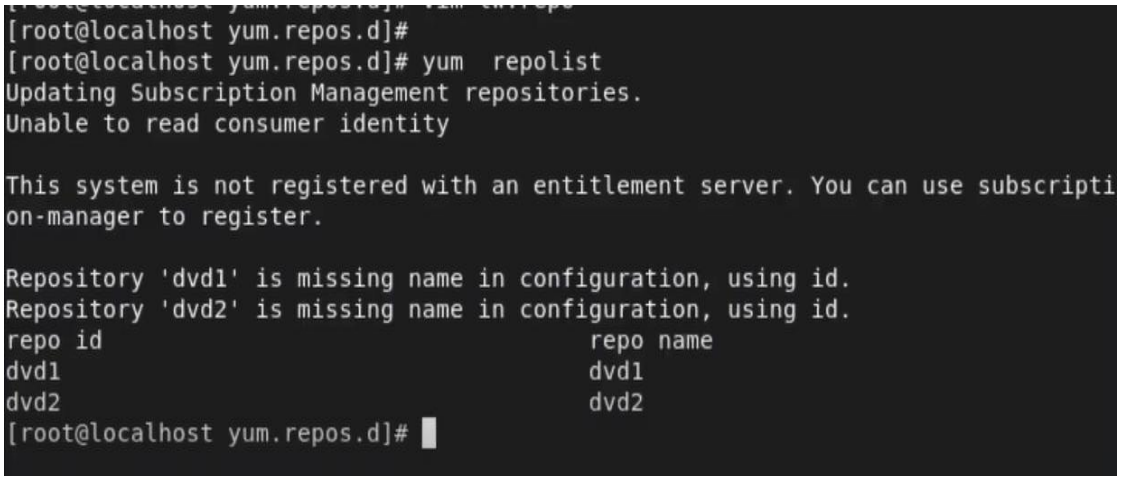
- Steps to configure yum – Copy the path of the software



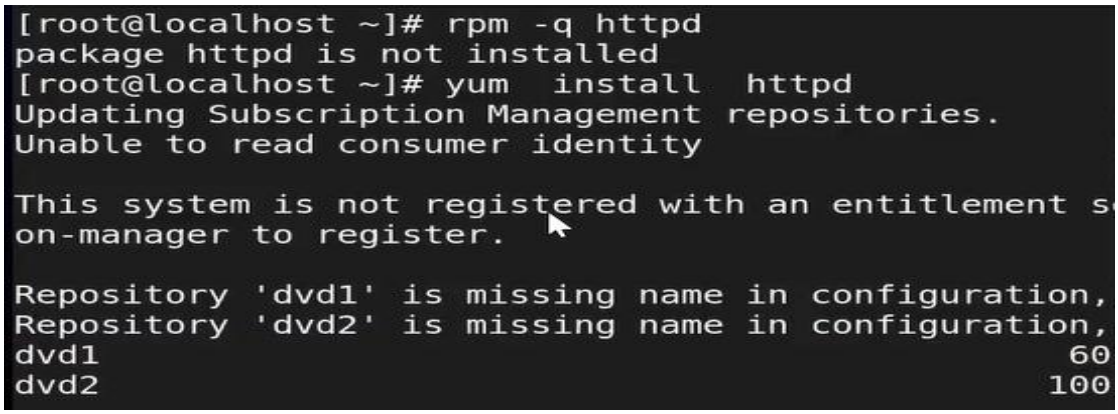
- The configuration file of yum – "/etc/yum.repos.d" – create a file with extension .repo

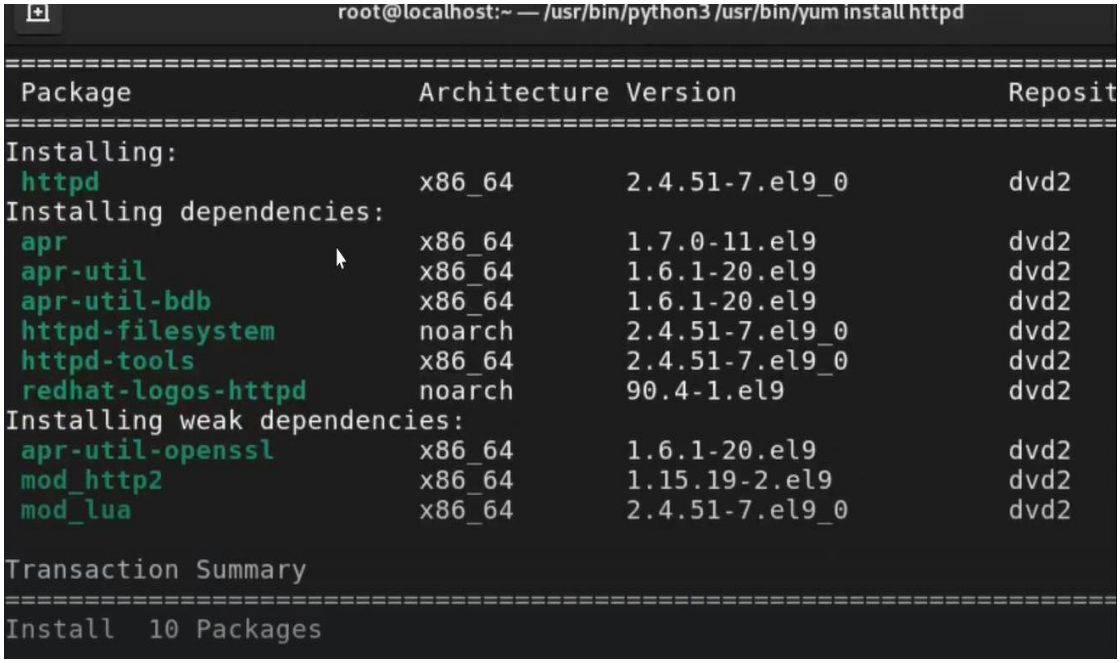


- Command to verify that yum has been configured

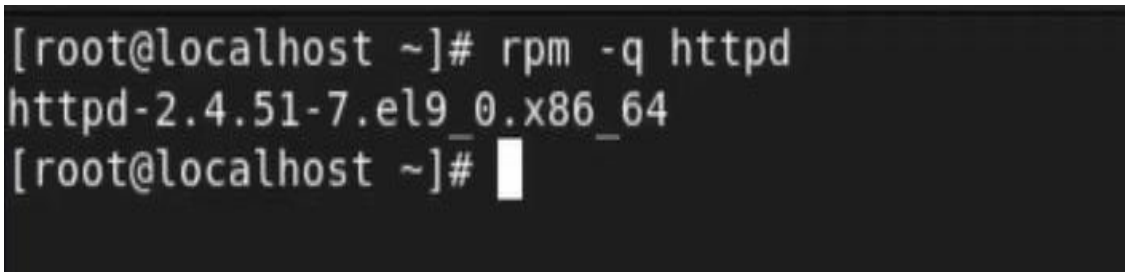


- Yum is one time set-up – now you can install any software

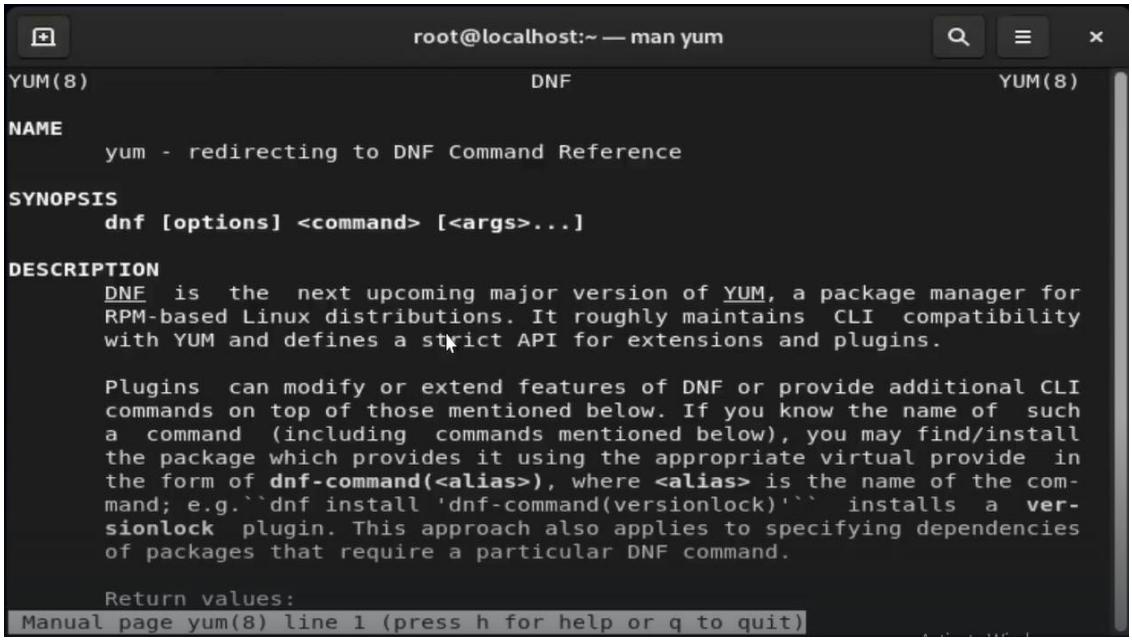




- Command to check software installed



- To refer the manual of yum



- Command to uninstall the software

```
[root@localhost ~]# yum  remove  httpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
```

```
[root@localhost ~]# rpm -q httpd
package httpd is not installed
[root@localhost ~]#
```

- In terms of performance –we can use dnf command

```
[root@localhost ~]# dnf   install  httpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscripti
on-manager to register.

Repository 'dvd1' is missing name in configuration, using id.
Repository 'dvd2' is missing name in configuration, using id.
Last metadata expiration check: 0:03:47 ago on Sat 15 Oct 2022 02:38:38 PM IST.
```

- Steps to configure any Server

```
setup / configure  web server:
------------------------------

step 1:
install software
# yum install httpd

step 2:
configure / setup : the way u want to use
# cd /var/www/html
# cat > vimal.html

step 3:
execute / run
start service
# systemctl start  httpd
```

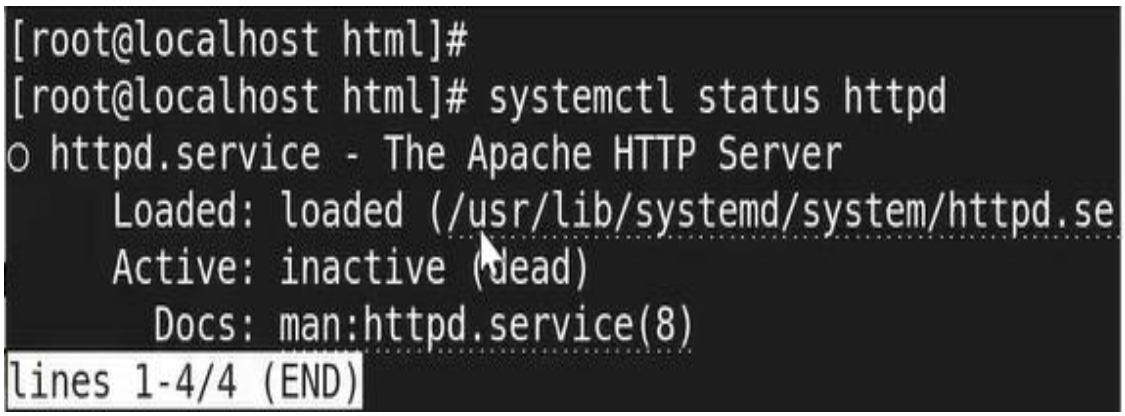
- The steps to configure Apache HTTPD Webserver – Install the software

```
[root@localhost ~]# yum  install  httpd
```

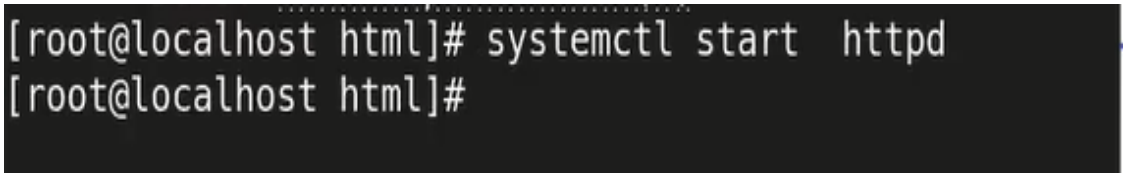
- Configure the Server-

```
[root@localhost ~]# cd /var/www/html/
[root@localhost html]# ls
[root@localhost html]# ls
[root@localhost html]# ls
[root@localhost html]# cat > vimal.html
i m vimal
welcome to my website
[root@localhost html]# ls
vimal.html
[root@localhost html]# cat vimal.html
i m vimal
welcome to my website
[root@localhost html]#
```

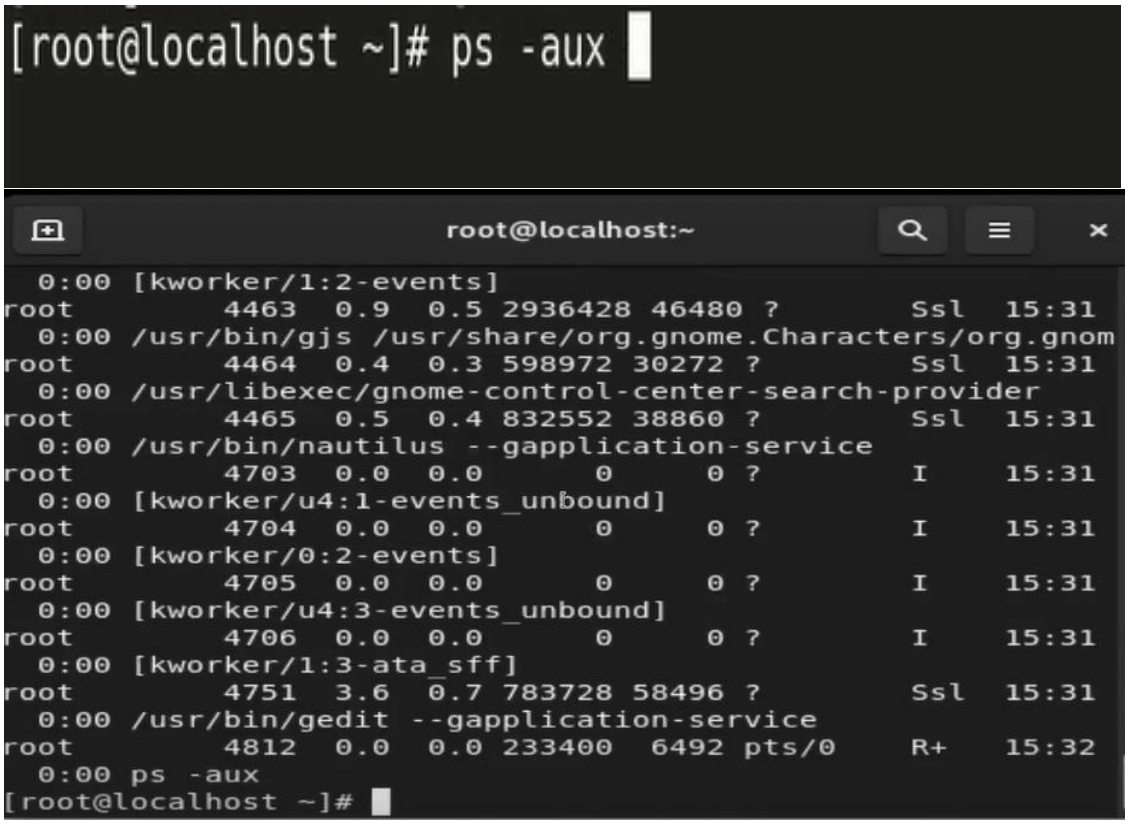
- Command to check the status of the service



- Command to start the service



- Command to list all the process in the system – gedit cannot be interacted from outside world

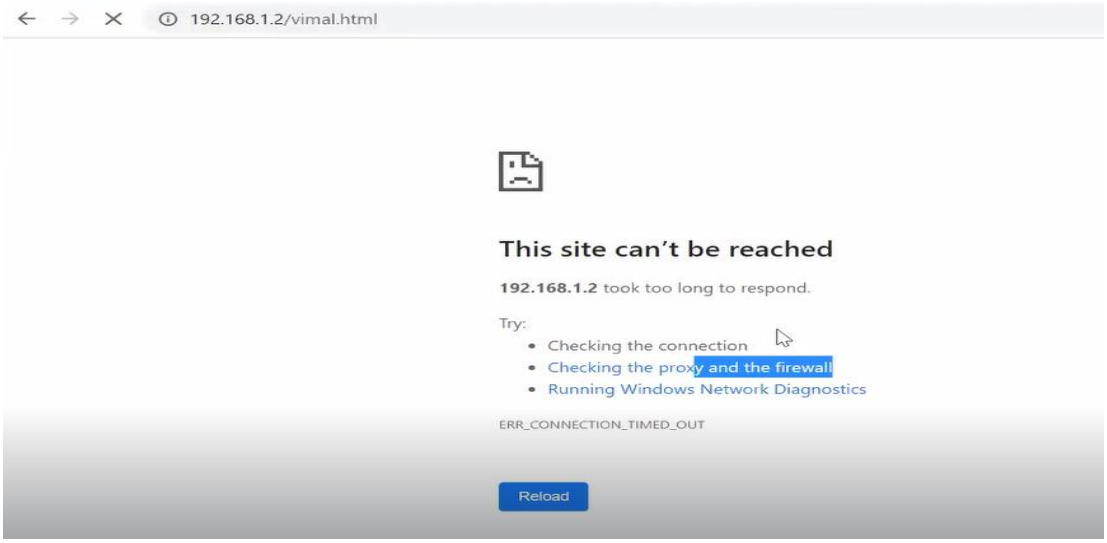


- Command to check the port number

```
[root@localhost ~]# netstat  -tnlp
Active Internet connections (only servers)
Proto Recv-Q Send-Q Local Address           Foreign Address
       State       PID/Program name
tcp        0      0 0.0.0.0:111             0.0.0.0:*
       LISTEN      1/systemd
tcp        0      0 0.0.0.0:22              0.0.0.0:*
       LISTEN      894/sshd: /usr/sbin
tcp        0      0 127.0.0.1:631           0.0.0.0:*
       LISTEN      891/cupsd
tcp6       0      0 :::111                  :::*
       LISTEN      1/systemd
tcp6       0      0 :::80                   :::*
       LISTEN      4184/httpd
tcp6       0      0 :::22                   :::*
       LISTEN      894/sshd: /usr/sbin
tcp6       0      0 ::1:631                 :::*
       LISTEN      891/cupsd
[root@localhost ~]#
```

- The steps to configure the client

```
setup client:
-------------

step 1:
install software : web client
# chrome

step 2:
connect : server :  ip
URL: http://ip:port/page
```



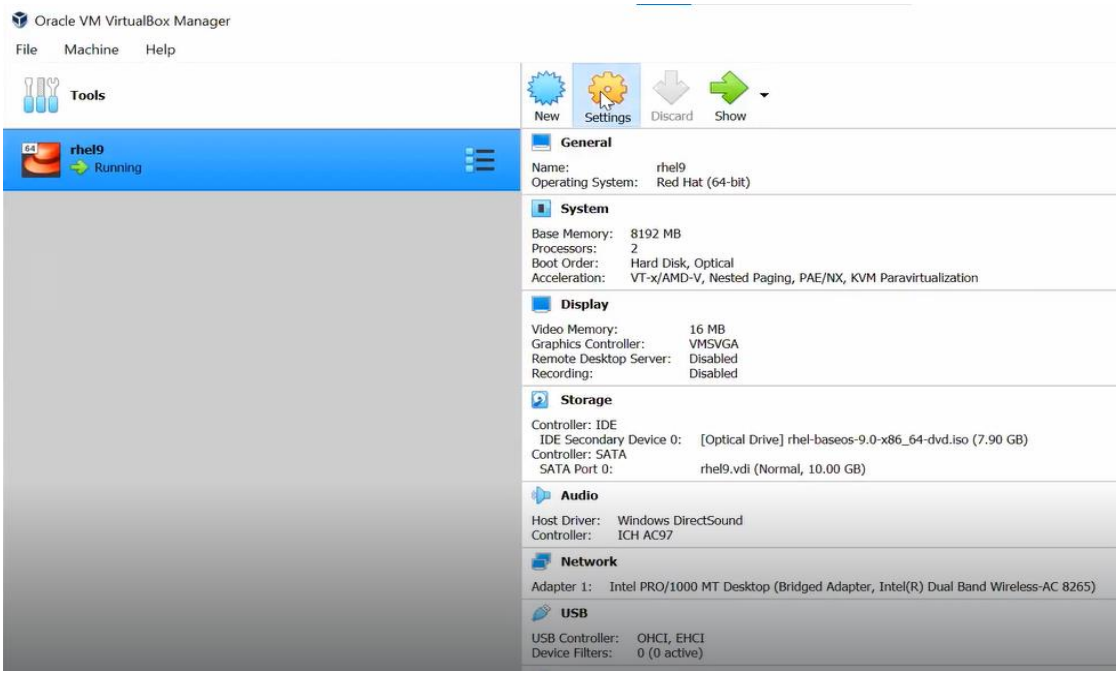
- Command to check the status of firewall

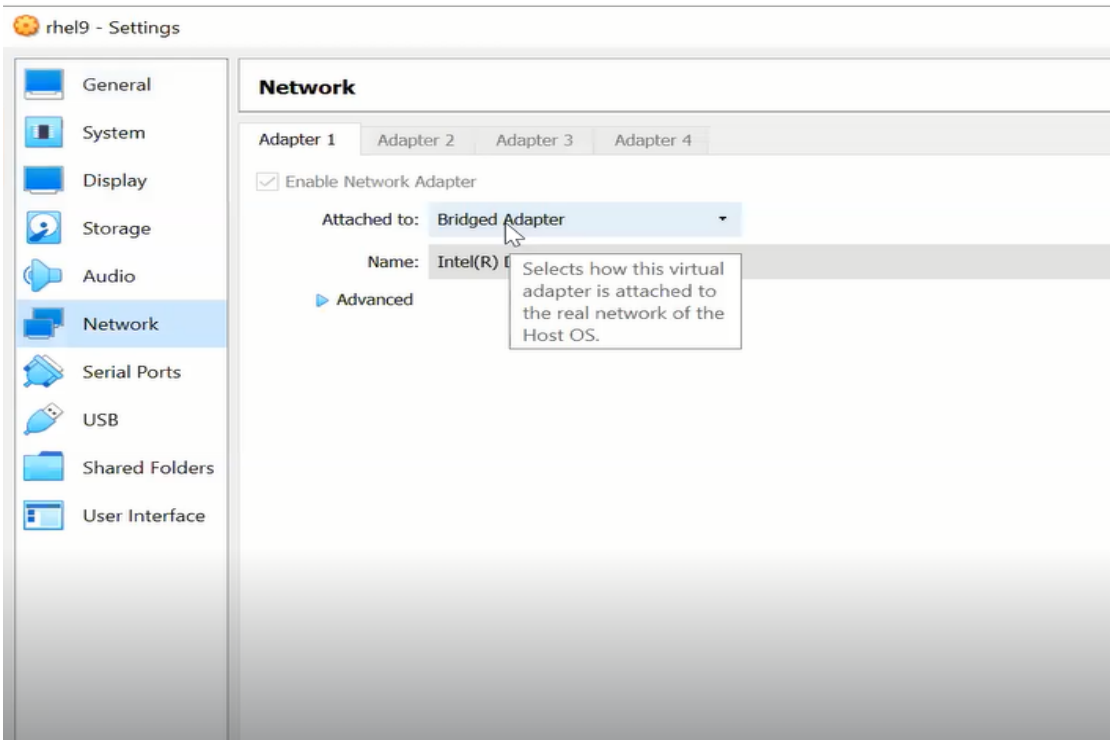
```
[root@localhost ~]# systemctl status firewalld
● firewalld.service - firewalld - dynamic firewall daemon
     Loaded: loaded (/usr/lib/systemd/system/firewalld.serv
     Active: active (running) since Sat 2022-10-15 14:12:24
       Docs: man:firewalld(1)
   Main PID: 814 (firewalld)
      Tasks: 2 (limit: 50436)
     Memory: 42.9M
        CPU: 2.722s
     CGroup: /system.slice/firewalld.service
             └─814 /usr/bin/python3 -s /usr/sbin/firewalld

Oct 15 14:12:22 localhost systemd[1]: Starting firewalld -
Oct 15 14:12:24 localhost systemd[1]: Started firewalld - d
[root@localhost ~]# systemctl stop firewalld
```

- Command to stop the firewall

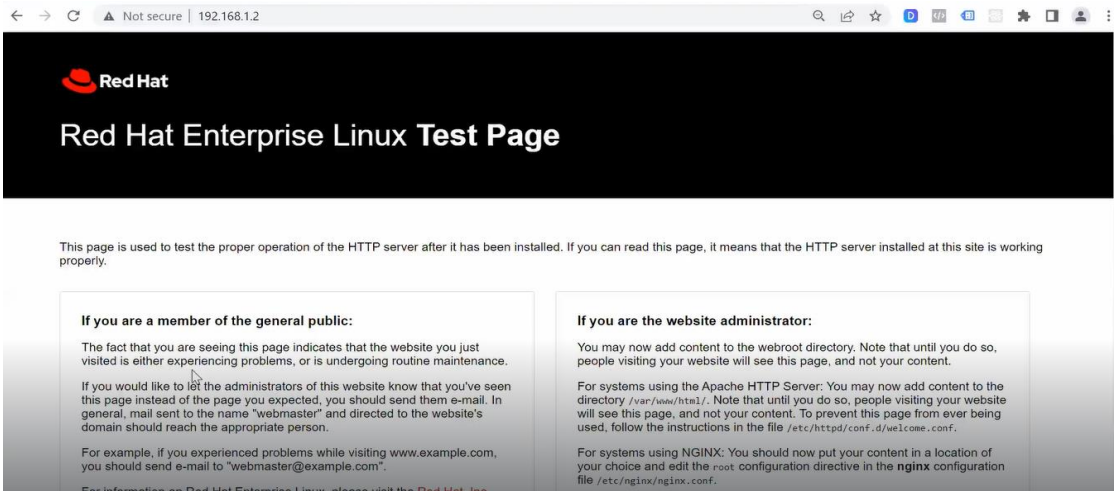
```
[root@localhost ~]# systemctl stop  firewalld
[root@localhost ~]# systemctl status firewalld
○ firewalld.service - firewalld - dynamic firewall daemon
     Loaded: loaded (/usr/lib/systemd/system/firewalld.serv
     Active: inactive (dead) since Sat 2022-10-15 15:48:07
       Docs: man:firewalld(1)
    Process: 814 ExecStart=/usr/sbin/firewalld --nofork --n
   Main PID: 814 (code=exited, status=0/SUCCESS)
        CPU: 2.845s

Oct 15 14:12:22 localhost systemd[1]: Starting firewalld -
Oct 15 14:12:24 localhost systemd[1]: Started firewalld - d
Oct 15 15:48:07 localhost.localdomain systemd[1]: Stopping
Oct 15 15:48:07 localhost.localdomain systemd[1]: firewalld
Oct 15 15:48:07 localhost.localdomain systemd[1]: Stopped f
Oct 15 15:48:07 localhost.localdomain systemd[1]: firewalld
[root@localhost ~]#
```

- For the base machine to connect to virtual machine –





- If we do not specify the page in the URL –the home page is displayed



- In the document root – there is index.html

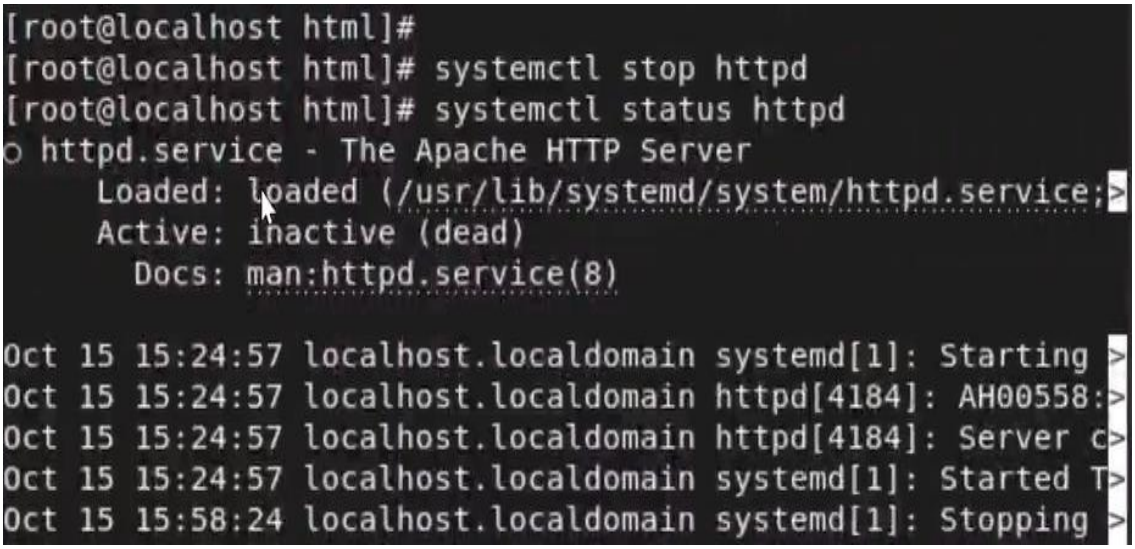
```
[root@localhost html]# pwd
/var/www/html
[root@localhost html]# ls
lw.html  pop.html  vimal.html
[root@localhost html]# vim index.html
```

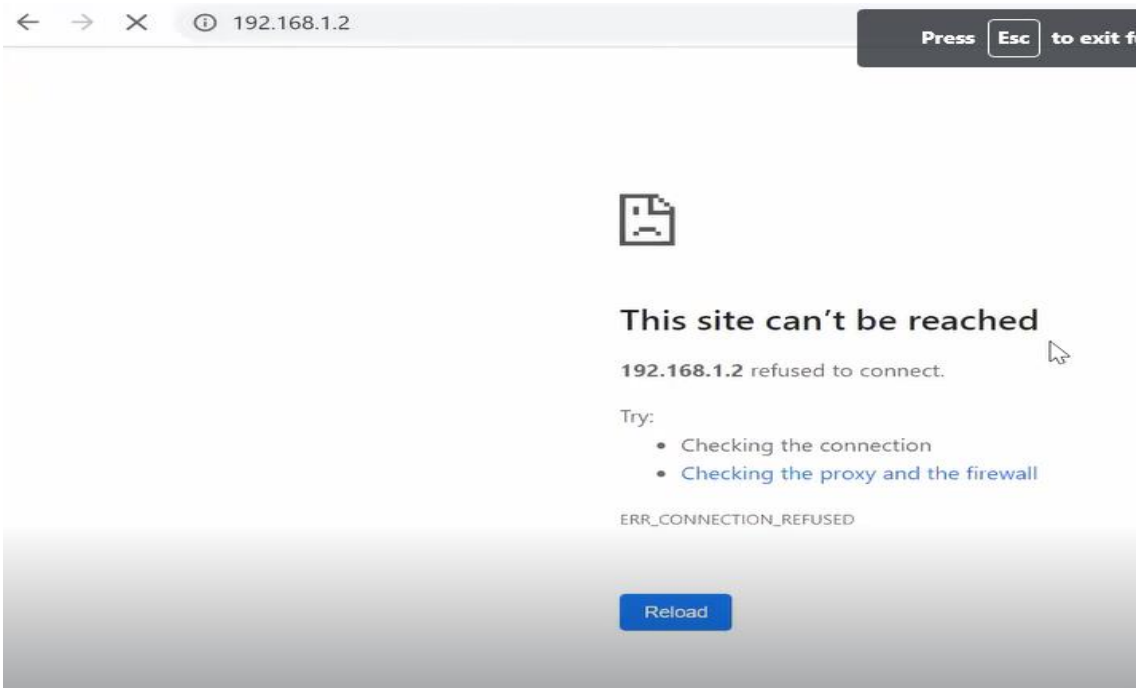
```
root@localhost:/var/www/html — vim index.html
<h2>my home page</h2>
~
~
```

```
[root@localhost html]# pwd
/var/www/html
[root@localhost html]# ls
index.html  lw.html  pop.html  vimal.html
[root@localhost html]#
```

- By using the web client “curl” –we can access the webpage

- If the httpd service is stopped – we cannot access the webpage





- Command to shut down the OS “init 0”
- After your start the system – service is not started automatically

```
[root@localhost ~]# systemctl status httpd
○ httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.
     Active: inactive (dead)
       Docs: man:httpd.service(8)
lines 1-4/4 (END)
```

- To start the service at boot time – service persistent

```
[root@localhost ~]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.serv
/lib/systemd/system/httpd.service.
[root@localhost ~]#
```

```
[root@localhost ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
     Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; v
     Active: active (running) since Sat 2022-10-15 16:02:08 IST; 2min
       Docs: man:httpd.service(8)
   Main PID: 2186 (httpd)
     Status: "Total requests: 1; Idle/Busy workers 100/0;Requests/sec:
      Tasks: 213 (limit: 50436)
     Memory: 33.4M
        CPU: 196ms
     CGroup: /system.slice/httpd.service
             ├─2186 /usr/sbin/httpd -DFOREGROUND
             ├─2187 /usr/sbin/httpd -DFOREGROUND
             ├─2188 /usr/sbin/httpd -DFOREGROUND
             ├─2189 /usr/sbin/httpd -DFOREGROUND
             └─2191 /usr/sbin/httpd -DFOREGROUND
```