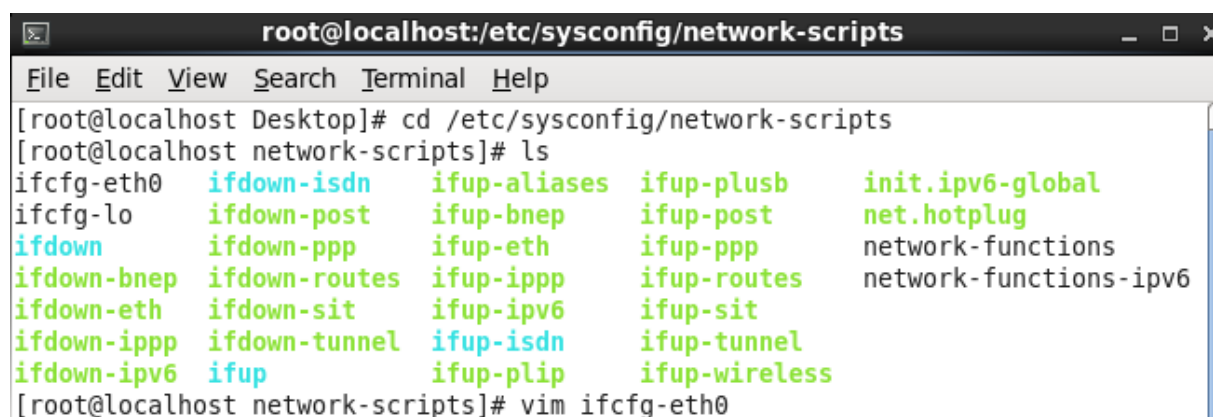


DNS

```
[root@www Desktop]# ifconfig
eth0      Link encap:Ethernet  HWaddr 00:0C:29:98:67:05
          inet addr:192.168.1.1  Bcast:192.168.1.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe98:6705/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:1031 errors:0 dropped:0 overruns:0 frame:0
          TX packets:209 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:109582 (107.0 KiB)  TX bytes:34187 (33.3 KiB)
          Interrupt:19 Base address:0x2000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:920 errors:0 dropped:0 overruns:0 frame:0
          TX packets:920 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:81112 (79.2 KiB)  TX bytes:81112 (79.2 KiB)

[root@www Desktop]#
```



The screenshot shows a terminal window titled "root@localhost:/etc/sysconfig/network-scripts". The terminal output shows the command "cd /etc/sysconfig/network-scripts" followed by "ls", which lists various network configuration scripts. The files are listed in a grid-like format with some color coding (blue for 'ifdown' and 'ifup' prefixes, green for others). The list includes: ifcfg-eth0, ifdown-isdn, ifup-aliases, ifup-plusb, init.ipv6-global, ifcfg-lo, ifdown-post, ifup-bnep, ifup-post, net.hotplug, ifdown, ifdown-ppp, ifup-eth, ifup-ppp, network-functions, ifdown-bnep, ifdown-routes, ifup-ipp, ifup-routes, network-functions-ipv6, ifdown-eth, ifdown-sit, ifup-ipv6, ifup-sit, ifdown-ipp, ifdown-tunnel, ifup-isdn, ifup-tunnel, ifdown-ipv6, ifup, ifup-plip, and ifup-wireless. The prompt then changes to "[root@localhost network-scripts]# vim ifcfg-eth0".

```
root@localhost:/etc/sysconfig/network-scripts
File Edit View Search Terminal Help
[root@localhost Desktop]# cd /etc/sysconfig/network-scripts
[root@localhost network-scripts]# ls
ifcfg-eth0  ifdown-isdn  ifup-aliases  ifup-plusb  init.ipv6-global
ifcfg-lo    ifdown-post  ifup-bnep     ifup-post   net.hotplug
ifdown      ifdown-ppp   ifup-eth      ifup-ppp    network-functions
ifdown-bnep ifdown-routes ifup-ipp      ifup-routes network-functions-ipv6
ifdown-eth  ifdown-sit   ifup-ipv6     ifup-sit
ifdown-ipp  ifdown-tunnel ifup-isdn     ifup-tunnel
ifdown-ipv6 ifup          ifup-plip     ifup-wireless
[root@localhost network-scripts]# vim ifcfg-eth0
```

```
root@localhost:/etc/sysconfig/network-scripts
File Edit View Search Terminal Help
DEVICE="eth0"
BOOTPROTO=none
NM_CONTROLLED="yes"
ONBOOT="yes"
HWADDR=00:0C:29:98:67:05
MTU=1500
TYPE=Ethernet
IPADDR=192.168.1.1
PREFIX=24
DEFROUTE=yes
IPV4_FAILURE_FATAL=yes
IPV6INIT=no
NAME="System eth0"
UUID=5fb06bd0-0bb0-7ffb-45f1-d6edd65f3e03
DNS1=192.168.1.1
~
~
~
~
~
~
~
~
"ifcfg-eth0" [readonly] 15L, 265C 15,1 All
```

```
root@localhost:/etc/sysconfig/network-scripts
File Edit View Search Terminal Help
[root@localhost network-scripts]# vim /etc/hosts
[root@localhost network-scripts]# S
```

```
root@localhost:/etc/sysconfig/network-scripts
File Edit View Search Terminal Help
127.0.0.1 localhost.localdomain localhost
::1 localhost6.localdomain6 localhost6
192.168.1.1 www.rizvi.com
~
```

```
root@localhost:~/Desktop
File Edit View Search Terminal Help
[root@localhost Desktop]# vim /etc/sysconfig/network
```


[illegible]

```
root@localhost:/var/named
```

File Edit View Search Terminal Help

```
[root@localhost named]# vim forward.zone
[root@localhost named]#
```

```
root@localhost:/var/named
File Edit View Search Terminal Help
$TTL 1D
@      IN SOA  www.rizvi.com. root.rizvi.com. (
                                0      ; serial
                                1D      ; refresh
                                1H      ; retry
                                1W      ; expire
                                3H )    ; minimum

www    IN NS   www.rizvi.com.
       IN A    192.168.1.1
```

```
root@localhost:/var/named
File Edit View Search Terminal Help
[root@localhost named]# vim reverse.zone
```

```
root@localhost:/var/named
File Edit View Search Terminal Help
$TTL 1D
@      IN SOA  www.rizvi.com. root.www.rizvi.com. (
                                0      ; serial
                                1D      ; refresh
                                1H      ; retry
                                1W      ; expire
                                3H )    ; minimum

1      IN NS   www.rizvi.com.
       IN PTR  www.rizvi.com.
```

The 1 is the IP Address Last digit 192.16.1.1

```
root@localhost:/var/named
File Edit View Search Terminal Help
[root@localhost ~]# cd /var/named
[root@localhost named]# ls
chroot  dynamic  named.ca      named.localhost  reverse.zone
data    forward.zone  named.empty  named.loopback   slaves
[root@localhost named]# vim reverse.zone
[root@localhost named]# chgrp named forward.zone
[root@localhost named]# chgrp named reverse.zone
[root@localhost named]#
```

```
[root@localhost named]# dig www.rizvi.com
```

```
; <<> DiG 9.7.0-P2-RedHat-9.7.0-5.P2.el6 <<> www.rizvi.com
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 51925
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 0

;; QUESTION SECTION:
;www.rizvi.com.                IN      A

;; ANSWER SECTION:
www.rizvi.com.                86400   IN      A      192.168.1.1

;; AUTHORITY SECTION:
rizvi.com.                    86400   IN      NS      www.rizvi.com.

;; Query time: 1 msec
;; SERVER: 192.168.1.1#53(192.168.1.1)
;; WHEN: Fri Sep 19 18:16:32 2025
;; MSG SIZE rcvd: 61
```

```
[root@localhost named]# dig -x 192.168.1.1
```

```
; <<> DiG 9.7.0-P2-RedHat-9.7.0-5.P2.el6 <<> -x 192.168.1.1
;; global options: +cmd
;; Got answer:
;; ->HEADER<- opcode: QUERY, status: NOERROR, id: 22811
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 1

;; QUESTION SECTION:
;1.1.168.192.in-addr.arpa.    IN      PTR

;; ANSWER SECTION:
1.1.168.192.in-addr.arpa. 86400   IN      PTR      www.rizvi.com.

;; AUTHORITY SECTION:
1.168.192.in-addr.arpa. 86400   IN      NS      www.rizvi.com.

;; ADDITIONAL SECTION:
www.rizvi.com.            86400   IN      A      192.168.1.1

;; Query time: 1 msec
;; SERVER: 192.168.1.1#53(192.168.1.1)
;; WHEN: Fri Sep 19 18:16:58 2025
;; MSG SIZE rcvd: 99
```

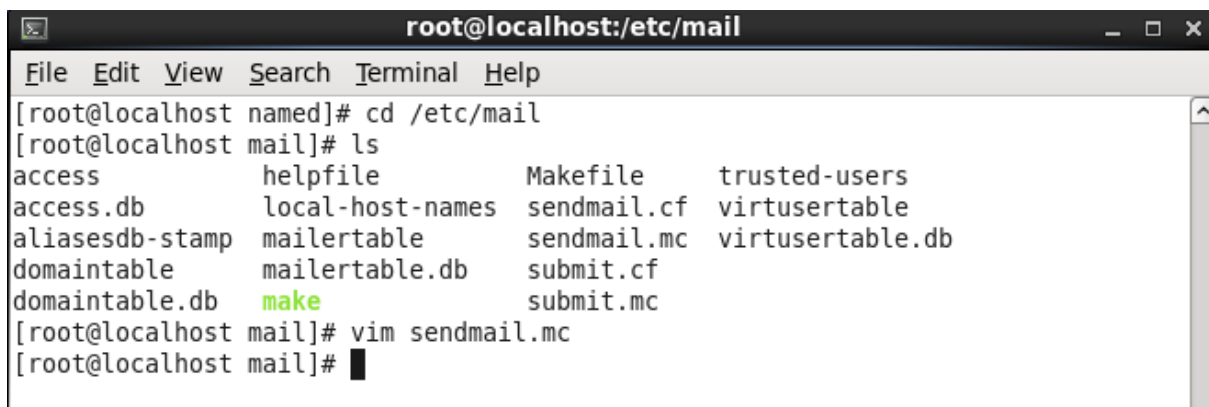
```
[root@localhost named]# nslookup
> www.rizvi.com
Server:          192.168.1.1
Address:         192.168.1.1#53

Name:   www.rizvi.com
Address: 192.168.1.1
> 192.168.1.1
Server:          192.168.1.1
Address:         192.168.1.1#53

1.1.168.192.in-addr.arpa      name = www.rizvi.com.
> █
```

Sendmail

Install packages : Desktop > CD > Packages > sendmail*



```
root@localhost:/etc/mail
File Edit View Search Terminal Help
[root@localhost named]# cd /etc/mail
[root@localhost mail]# ls
access          helpfile          Makefile          trusted-users
access.db        local-host-names  sendmail.cf       virtusertable
aliasesdb-stamp mailertable        sendmail.mc       virtusertable.db
domaintable      mailertable.db    submit.cf
domaintable.db   make              submit.mc
[root@localhost mail]# vim sendmail.mc
[root@localhost mail]# █
```

Comment down this line DAEMON_OPTIONS ('Port = smtp , Addr =192.168.1.1, Name='MTA') using
dn1 # DAEMON_OPTIONS ('Port = smtp , Addr =192.168.1.1, Name='MTA')

```
[root@localhost mail]# m4 sendmail.mc > sendmail.cf
```

Check if DNS configured properly

```
[root@localhost named]# dig www.rizvi.com

; <<>> DiG 9.7.0-P2-RedHat-9.7.0-5.P2.el6 <<>> www.rizvi.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51925
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 0

;; QUESTION SECTION:
;www.rizvi.com.                IN      A

;; ANSWER SECTION:
www.rizvi.com.                86400   IN      A      192.168.1.1

;; AUTHORITY SECTION:
rizvi.com.                    86400   IN      NS      www.rizvi.com.

;; Query time: 1 msec
;; SERVER: 192.168.1.1#53(192.168.1.1)
;; WHEN: Fri Sep 19 18:16:32 2025
;; MSG SIZE rcvd: 61
```

```
[root@localhost named]# dig www.rizvi.com

; <<>> DiG 9.7.0-P2-RedHat-9.7.0-5.P2.el6 <<>> www.rizvi.com
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 51925
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 1, AUTHORITY: 1, ADDITIONAL: 0

;; QUESTION SECTION:
;www.rizvi.com.                IN      A

;; ANSWER SECTION:
www.rizvi.com.                86400   IN      A      192.168.1.1

;; AUTHORITY SECTION:
rizvi.com.                    86400   IN      NS      www.rizvi.com.

;; Query time: 1 msec
;; SERVER: 192.168.1.1#53(192.168.1.1)
;; WHEN: Fri Sep 19 18:16:32 2025
;; MSG SIZE rcvd: 61
```

```
root@localhost:/etc/mail
File Edit View Search Terminal Help
[root@localhost mail]# vi /var/named/forward.zone
```



```

$TTL 1D
@      IN SOA  www.rizvi.com. root.rizvi.com. (
                                0      ; serial
                                1D     ; refresh
                                1H     ; retry
                                1W     ; expire
                                3H )   ; minimum

      NS      www.rizvi.com.
www    A      192.168.1.1
      IN      MX      192.168.1.1
~
~

```

```

root@localhost:/etc/mail
File Edit View Search Terminal Help
[root@localhost mail]# service sendmail restart
Shutting down sm-client: [ OK ]
Shutting down sendmail: [ OK ]
Starting sendmail: [ OK ]
Starting sm-client: [ OK ]
[root@localhost mail]#

```

```

[root@localhost ~]# useradd person
[root@localhost ~]# passwd person
Changing password for user person.
New password:
BAD PASSWORD: it is based on a dictionary word
BAD PASSWORD: is too simple
Retype new password:
passwd: all authentication tokens updated successfully.
[root@localhost ~]#

```

```

root@www:~ (on localhost.localdomain)
File Edit View Search Terminal Help
[root@localhost ~]# hostname www.rizvi.com
[root@localhost ~]# hostname
www.rizvi.com
[root@localhost ~]# su - root
[root@www ~]#

```

```

[root@www ~]# mail person@www.rizvi.com
Subject: Testing
first mail
EOT

```

```
person@www:~ (on localhost.localdomain)
File Edit View Search Terminal Help
[root@www ~]# su - person
[person@www ~]$ mail
Heirloom Mail version 12.4 7/29/08. Type ? for help.
"/var/spool/mail/person": 1 message 1 new
>N 1 root          Fri Sep 19 18:33 23/805  "Testing"
& █
```