Prerequisite Basic Configuration

Step-1: Time, Date and Time Zone Configuration:

#timedatectl set-timezone Asia/Dhaka

#timedatectl

Step-2: Set SELinux Off:

#vi /etc/selinux/config

SELINUX=disabled

:X

Step-2: Hostname Configuration:

#hostnamectl set-hostname ns1.atcomputer.net

logout

Login again to check the effect

#hostname

ns1.atcomputer.net

Step-4: Network Configuration:

#nmtui

#nmcli connection down enp0s3
#nmcli connection up enp0s3
ifconfig

Step-5: Update hosts file:

vim /etc/hosts

127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4

192.168.10.5 ns1.atcomputer.netns1

:X

To check the effect

[root@mail ~]# hostname

ns1.atcomputer.net

[root@mail ~]# hostname -d

atcomputer.net

[root@mail ~]# hostname -f

ns1.atcomputer.net

Step-6: SSH Server Configuration:

=>Create a new user for ssh secure login:

#adduser system #passwd system

=> Necessary Packages Install:

#dnf -y install openssh-clients openssh-server

=> Edit the SSH Configuration File:

#cd /etc/ssh/ #vi sshd config

Port 6622 Change ssh port

PermitRootLogin no Deny root login

AllowUsers system zimbra Permit SSH Users

:X

=> Allow ssh port into the Firewall:

#firewall-cmd -permanent -add-port=6622/tcp

#firewal-cmd --reload

#semanage port -a -t ssh port t -p tcp 6622

=> Restart SSH Service:

#systemctl status sshd

#systemctl restart sshd

Try to login remotely

#ssh system@192.168.10.5 -p 6622

DNS Server Configuration

=> Necessary Packages Installation: # dnf install –y bind bind-utils => Edit the DNS Configuration Files: # cd /etc/ # cp named.conf named.conf.ori # vim /etc/named.conf options { listen-on port 53 { 127.0.0.1; 192.168.10.5; }; Provide the DNS Server IP Address listen-on-v6 port 53 { ::1; }; Comments this line zone "atcomputer.net" IN { type master; file "forward.atcomputer.net"; **Provide Zone Information** allow-update { none; }; zone "10.168.192.in-addr.arpa" IN { type master; file "reverse.atcomputer.net"; allow-update { none; }; **}**; include "/etc/named.rfc1912.zones"; include "/etc/named.root.key"; :x => Create Forward and Reverse Zone File: # cd /var/named/ # ls -la -rw-r---. 1 root named 152 Jun 21 2007 named.localhost -rw-r----. 1 root named 168 Dec 15 2009 named.loopback

cp named.localhost forward.atcomputer.net

[root@ns1 named]# vim forward.atcomputer.net

1D

1H

1W

IN SOA mail.atcomputer.net. root.atcomputer.net. (0 ; serial

; refresh

; expire

; retry

```
3H); minimum
    NS
           mail.atcomputer.net.
    A
          192.168.10.5
            NS
                  mail.atcomputer.net.
(a)
      IN
      ΙN
            MX
                   0 mail.atcomputer.net.
(a)
                  192.168.10.5
ns1
      IN
            A
mail
     IN
            Α
                  192.168.10.5
:x
# cp named.loopback reverse.atcomputer.net
# vim reverse.atcomputer.net
$TTL 1D
      IN SOA ns1.atcomputer.net. root.atcomputer.net. (
                       0
                            ; serial
                       1D
                             ; refresh
                       1H
                             ; retry
                       1W
                              ; expire
                       3H); minimum
    NS
           ns1.atcomputer.net.
          192.168.10.5
    A
4
     IN
           PTR
                   ns1.atcomputer.net.
:x
# chgrp named forward.atcomputer.net.
# chgrp named reverse.atcomputer.net.
#service named restart
=> Check DNS configuration:
# named-checkzone zone forward.atcomputer.net
zone zone/IN: loaded serial 0
OK
# named-checkzone zone reverse.atcomputer.net
zone zone/IN: loaded serial 0
OK
# named-checkconf -z /etc/named.conf
zone localhost.localdomain/IN: loaded serial 0
zone localhost/IN: loaded serial 0
zone keya-bd.com/IN: loaded serial 0
zone 1.0.0.127.in-addr.arpa/IN: loaded serial 0
zone 10.168.192.in-addr.arpa/IN: loaded serial 0
```

=> Restart DNS Service

systemctl restart named

systemctl enable named

ln -s '/usr/lib/systemd/system/named.service' '/etc/systemd/system/multi-user.target.wants/named.service'

=> Configure the resolve file:

vim /ete/reslov.conf

nameserver current mail server IP nameserver google public dns 8.8.8.8

:x

=> Firewall Configure for DNS Service:

```
#firewall-cmd -add-service=dns --permanent
#firewall-cmd --permanent --add-port=53/tcp
#firewall-cmd --permanent --add-port=53/udp
```

=> Check The DNS Service:

nslookup -type=ns atcomputer.net

nslookup -type=mx atcomputer.net

#nslookup mail.atcomputer.net

nslookup

> atcomputer.net

Server: 192.168.10.5 Address: 192.168.10.5#53

Non-authoritative answer: Name: atcomputer.net Address: 72.9.148.171

> exit

#dig atcomputer.net mx

#dig -t A mail.atcomputer.net

dig -t MX atcomputer.net