The email server is dovecot and the webmail webapps is RoundCube.

**Fedora Server 21**

**\*\*\*\*\* NOTE \*\*\*\*\***

**The default Fedora Server terminal (command line) does not allow scrolling of the screen.**

In order to read more than one screen of information you will have to pipe the command to more ie:

netstat | more

Terminals in the desktop (GUI) do allow scrolling.

**\*\*\*\*\* GENERAL INFORMATION \*\*\*\*\***

**Repository** (where files are stored):

<https://archives.fedoraproject.org/pub/archive/fedora/linux/releases/21/Everything/x86_64/os/>

**Repository mirrors:**

<http://mirror.math.princeton.edu/pub/fedora-archive/fedora/linux/releases/21/Everything/x86_64/os/>

<http://pubmirror1.math.uh.edu/fedora-buffet/archive/fedora/linux/releases/21/Everything/x86_64/os/>

<https://pubmirror2.math.uh.edu/fedora-buffet/archive/fedora/linux/releases/21/Everything/x86_64/os/>

<http://mirrors.kernel.org/fedora-buffet/archive/fedora/linux/releases/21/Everything/x86_64/os/>

<http://dl.fedoraproject.org/pub/archive/fedora/linux/releases/21/Everything/x86_64/os/>

**Repository list file in Fedora Server 21**

/etc/yum.repos.d/

The files in /etc/yum.repos.d are:

fedora.repos, fedora-updates.repo and fedora-updates-testing.repo

For the contents of these files see the attached printouts at the end of this document.

**\*\*\*\*\*\*\*\*\* INITIAL ACTIONS \*\*\*\*\*\*\*\*\***

**Initial login:**

When you log in you will see the following if you type ls:

****

“dovecot” is the email server and “roundcubemail” is the web interface (webapp in the topology)

**Change root password if logged in as root:**

passwd

enter password when prompted

**To change a user password when logged in as root:**

passwd <user name>

enter password when prompted

**Determine if internet access is available:**

ping 8.8.8.8

**Determine if DNS services are available:**

ping google.com

**Add DNS server if needed:**

nano /etc/resolv.conf

Once open add a line “nameserver 8.8.8.8”. Additional lines with additional name servers

(DNS servers) can be added, such as 193.138.2128.74 (Mullvad VPN), 9.9.9.9 (Quad 9) and

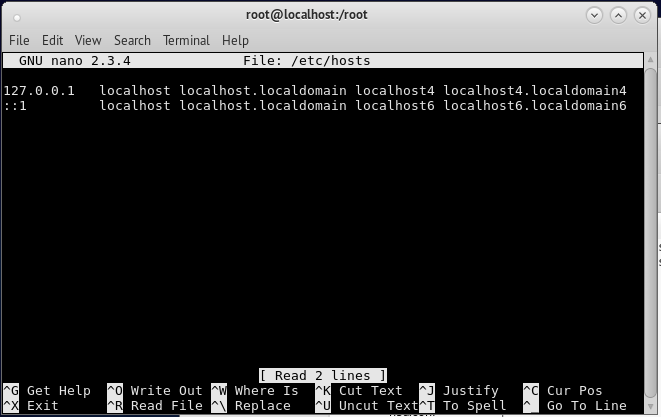
1.1.1.1 (Cloudflare). More DNS servers means a better chance of getting through.

<CTRL> + O will save the file. <CTRL> + <X> will exit nano and return to the command line.

**Check hosts file for redirects:**

nano /etc/hosts

It should look like this:



Additional entries should be treated with suspicion as they may be an attempt to redirect needed websites to different URLs – an example of this would to redirect repository entries to another site thereby preventing updating of software.

**Install clamav (anti-virus)**

<https://www.server-world.info/en/note?os=Fedora_21&p=clamav>

yum -y install clamav clamav-update

nano /etc/freshclam.conf

comment out line 8:

Example

nano /etc/sysconfig/freshclam

comment out last line:

FREESHCLAM\_DELAY=disabled-warn

Update detection files:

freshclam

Run virus scan:

clamscan --infected --remove --recursive /home (to test, fairly quick, no output until scan done)

clamscan --infected --remove --recursive / (runs on all directories / complete system and will take a while)

**Install desktop (GUI):**

**Note: MATE Desktop comes with Firefox, some others do not.**

To see the desktops available type:

yum group list | more (See image below for output of available groups)

To install MATE desktop type:

yum groupinstall “MATE Desktop” --skip-broken

Select the default (enter) at any pause in the installation process.

Once the install has completed type the following to make the desktop the default boot option:

systemctl set-default graphical.target

If there are errors then type:

sudo systemctl set-default graphical.target

**Note**: During testing “Basic Desktop” and “Xfce Desktop” were tested as well. Basic Desktop is VERY basic with a blank desktop, no icons or menus. In order to get a menu in Basic Desktop right click on the desktop and choose an option. Xfce does not come with a browser.

**Reference URLs for installing a desktop on Fedora Server 21:**

<https://ulyaoth.com/tips-tricks/how-to-install-a-graphical-desktop-on-fedora-server/>

**Note:**

There are no direct docs for version 21, but there are for version 13 and 20 and the process works on version 21.

<https://docs.fedoraproject.org/en-US/Fedora/13/html/Installation_Guide/sn-switching-to-gui-login.html>

<https://docs.fedoraproject.org/en-US/Fedora/20/html/Installation_Guide/sn-switching-to-gui-login.html>

See next page for output of groups list:

Group list output:



**\*\*\*\*\* firewalld \*\*\*\*\***

If there is no firewall installed (Palo Alto) firewalld is included with Fedora Server and can be installed and configured. Check with team captain.

See dovecot and roundcube for ports which need to be open for these email application. (dovecot is email server roundcube is webmail [webapp] interface)

**Reference URLs for firewalld:**

<https://fedoraproject.org/wiki/Firewalld?rd=FirewallD>

[http://www.firewalld.org](http://www.firewalld.org/)

<https://www.liquidweb.com/kb/an-introduction-to-firewalld/>

<https://www.tecmint.com/fix-firewall-cmd-command-not-found-error/>

**firewalld configuration file is located:**

/etc/firewalld/firewalld-server.conf

**Install firewalld:**

yum install firewalld

**Enable firewalld:**

systemctl enable firewalld

**Start firewalld:**

systemctl start firewalld

**Check status of firewalld:**

systemctl status firewalld

**\*\*\*\*\* dovecot \*\*\*\*\***

<https://www.server-world.info/en/note?os=Fedora_21&p=mail&f=2>

<https://www.variantweb.net/blog/set-up-a-virtual-mail-server-on-fedora-21-using-dovecot-postfix-opendkim-and-spamassassin/>

<https://wiki.dovecot.org/>

<https://www.tecmint.com/setting-up-email-services-smtp-and-restricting-access-to-smtp/>

ports to be open for dovecot:

25 (default SMTP)

143 (default IMAP)

993 (SSL/TLS IMAP)

995 (SSL/TLS POP3)

**\*\*\*\*\* roundcubemail \*\*\*\*\***

<https://github.com/roundcube/roundcubemail/wiki/Configuration>

<https://roundcube.net/>