

- Node1.example.com:

Q1: Configure TCP/IP and “Hostname” as following.

Hostname: node1.domain.example.com

IP Address: 192.168.71.240

Netmask: 255.255.255.0

Gateway: 192.168.71.2

DNS: 192.168.71.2

```
[root@node1 ~]# nmcli device status
DEVICE  TYPE      STATE      CONNECTION
ens160  ethernet  connected  ens160
lo      loopback  connected (externally)  lo
[root@node1 ~]# nmcli connection modify ens160 \
ipv4.method manual \
ipv4.addresses 192.168.71.240/24 \
ipv4.gateway 192.168.71.2 \
ipv4.dns 192.168.71.2 \
connection.autoconnect yes
[root@node1 ~]# nmcli connection down ens160
Connection 'ens160' successfully deactivated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/3)
[root@node1 ~]# nmcli connection up ens160
Connection successfully activated (D-Bus active path: /org/freedesktop/NetworkManager/ActiveConnection/4)
[root@node1 ~]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens160: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:0c:29:f2:04:11 brd ff:ff:ff:ff:ff:ff
    altname enp3s0
    inet 192.168.71.240/24 brd 192.168.71.255 scope global noprefixroute ens160
        valid_lft forever preferred_lft forever
    inet6 fe80::20c:29ff:fef2:411/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[root@node1 ~]#
```

```
[root@node1 ~]# ip route
default via 192.168.71.2 dev ens160 proto static metric 100
192.168.71.0/24 dev ens160 proto kernel scope link src 192.168.71.240 metric 100
```

Q2: Configure your Red hat VM repository installed the packages distribution is

available via YUM:

1. BaseOS url= http://content.example.com/rhel9/x86_64/dvd/BaseOS

2. AppStream url=

http://content.example.com/rhel9/x86_64/dvd/AppStream

```
root@node1:~  
[BaseOS]  
name=BaseOS  
baseurl=http://content.example.com/rhel9/x86_64/dvd/BaseOS  
enabled=1  
gpgcheck=0  
  
[AppStream]  
name=AppStream  
baseurl=http://content.example.com/rhel9/x86_64/dvd/AppStream  
enabled=1  
gpgcheck=0  
~  
~  
~  
~
```

```
root@node1:~  
[root@node1 ~]# vi /etc/yum.repos.d/local.repo  
[root@node1 ~]# dnf clean all  
Updating Subscription Management repositories.  
Unable to read consumer identity  
  
This system is not registered with an entitlement server. You can use su  
bscription-manager to register.  
  
0 files removed  
[root@node1 ~]# dnf repolist  
Updating Subscription Management repositories.  
Unable to read consumer identity  
  
This system is not registered with an entitlement server. You can use su  
bscription-manager to register.  
  
repo id                repo name  
AppStream              AppStream  
BaseOS                 BaseOS  
[root@node1 ~]#
```

```
root@localhost ~]# dnf install httpd -y
Updating Subscription Management repositories.

This system is registered with an entitlement server, but is not receiving updates.
You can use subscription-manager to assign subscriptions.

baseOS                               91 MB/s | 1.7 MB     00:00
AppStream                             126 MB/s | 6.3 MB     00:00
Dependencies resolved.
=====
Package                               Arch           Version           Repository        Size
=====
Installing:
httpd                                  x86_64         2.4.53-11.el9_2.4 AppStream         54 k
Installing dependencies:
apr                                    x86_64         1.7.0-11.el9     AppStream         127 k
apr-util                               x86_64         1.6.1-20.el9     AppStream         98 k
apr-util-bdb                           x86_64         1.6.1-20.el9     AppStream         15 k
httpd-core                              x86_64         2.4.53-11.el9_2.4 AppStream         1.5 M
httpd-filesystem                       noarch         2.4.53-11.el9_2.4 AppStream         17 k
Verifying...
Installed products updated.

Installed:
apr-1.7.0-11.el9.x86_64                apr-util-1.6.1-20.el9.x86_64
apr-util-bdb-1.6.1-20.el9.x86_64      apr-util-openssl-1.6.1-20.el9.x86_64
httpd-2.4.53-11.el9_2.4.x86_64        httpd-core-2.4.53-11.el9_2.4.x86_64
httpd-filesystem-2.4.53-11.el9_2.4.noarch httpd-tools-2.4.53-11.el9_2.4.x86_64
mod_http2-1.15.19-4.el9_2.4.x86_64    mod_lua-2.4.53-11.el9_2.4.x86_64
redhat-logos-httpd-90.4-1.el9.noarch

Complete!
root@localhost ~]#
```

Q3: Debug SELinux:

Web server running on non-standard port “82” is having issues serving content,

Debug and fix the issues. - -

The web server can serve all the existing HTML files from ‘/var/www/html’,

Don’t make any changes to these files.

Web service should automatically start at boot time.

```
root@node1:~  
[root@node1 ~]# vi /etc/yum.repos.d/local.repo  
[root@node1 ~]# dnf install httpd -y  
Updating Subscription Management repositories.  
Unable to read consumer identity  
  
This system is not registered with an entitlement server. You can use su  
bscription-manager to register.  
  
BaseOS                71 MB/s | 1.7 MB      00:00  
AppStream              96 MB/s | 6.3 MB      00:00  
Dependencies resolved.  
=====
```

Package	Arch	Version	Repository	Size
Installing:				
httpd	x86_64	2.4.53-11.el9_2.4	AppStream	54 k
Installing dependencies:				
apr	x86_64	1.7.0-11.el9	AppStream	127 k
apr-util	x86_64	1.6.1-20.el9	AppStream	98 k
apr-util-bdb	x86_64	1.6.1-20.el9	AppStream	15 k
httpd-core	x86_64	2.4.53-11.el9_2.4	AppStream	1.5 M
httpd-filesystem	noarch	2.4.53-11.el9_2.4	AppStream	17 k
httpd-tools	x86_64	2.4.53-11.el9_2.4	AppStream	88 k

```
root@node1:~  
[root@node1 ~]# systemctl enable --now httpd  
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.servic  
e → /usr/lib/systemd/system/httpd.service.  
systemctl status httpd  
^C  
[root@node1 ~]# systemctl status httpd  
● httpd.service - The Apache HTTP Server  
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; enabled; pr  
   Active: activating (start) since Wed 2026-02-25 03:52:11 EET; 18s >  
     Docs: man:httpd.service(8)  
  Main PID: 7654 (httpd)  
    Status: "Reading configuration..."  
   Tasks: 1 (limit: 10800)  
  Memory: 2.6M  
     CPU: 33ms  
   CGroup: /system.slice/httpd.service  
           └─7654 /usr/sbin/httpd -DFOREGROUND  
  
Feb 25 03:52:11 node1.domain.example.com systemd[1]: Starting The Apach  
lines 1-13/13 (END)
```

```

Feb 25 03:52:11 node1.domain.example.com systemd[1]: Starting The Apache
[root@node1 ~]# vi /etc/httpd/conf/httpd.conf
[root@node1 ~]# grep -R "Listen" /etc/httpd/
/etc/httpd/conf/httpd.conf:# Listen: Allows you to bind Apache to specif
ic IP addresses and/or
/etc/httpd/conf/httpd.conf:# Change this to Listen on a specific IP addr
ess, but note that if
/etc/httpd/conf/httpd.conf:#Listen 12.34.56.78:80
/etc/httpd/conf/httpd.conf:Listen 80
grep: /etc/httpd/modules/mod_heartmonitor.so: binary file matches
grep: /etc/httpd/modules/mod_mpm_event.so: binary file matches
grep: /etc/httpd/modules/mod_mpm_prefork.so: binary file matches
grep: /etc/httpd/modules/mod_mpm_worker.so: binary file matches
grep: /etc/httpd/run/cgisock.7654: No such device or address
[root@node1 ~]#

```

```

# Change this to Listen on a specific IP address, but note that if
# httpd.service is enabled to run at boot time, the address may not be
# available when the service starts. See the httpd.service(8) man
# page for more information.
#
#Listen 12.34.56.78:80
Listen 82
#

```

```

[root@node1 ~]# curl http://localhost:82
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN" "http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd"
">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en">
  <head>
    <title>Test Page for the HTTP Server on Red Hat Enterprise Linux</title>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <style type="text/css">
      /**]
      body {
        background-color: #fff;
        color: #000;
        font-size: 1.1em;
        font-family: "Red Hat Text" Helvetica, Tahoma, sans-serif;
</pre>
</div>
<div data-bbox="111 769 836 790" data-label="Text">
<p><b>Q4: Create the following users, groups, and group membership: - - - - -</b></p>
</div>
<div data-bbox="111 804 392 825" data-label="Text">
<p><b>A group named adminuser</b></p>
</div>
<div data-bbox="111 839 773 860" data-label="Text">
<p><b>A user “harry” who belongs to adminuser as a secondary group.</b></p>
</div>
<div data-bbox="111 875 803 895" data-label="Text">
<p><b>A user “natasha” who belongs to adminuser as a secondary group.</b></p>
</div>
```

A user “sarah” who doesn’t have access to an interactive shell and who is not a member of adminuser group.

All users should have the pass

```
root@node1:~  
[root@node1 ~]# groupadd adminuser  
[root@node1 ~]# useradd -G adminuser harry  
[root@node1 ~]# echo "centtered" | passwd --stdin harry  
Changing password for user harry.  
passwd: all authentication tokens updated successfully.  
[root@node1 ~]# useradd -G adminuser natasha  
[root@node1 ~]# echo "centtered" | passwd --stdin natasha  
Changing password for user natasha.  
passwd: all authentication tokens updated successfully.  
[root@node1 ~]# useradd -s /sbin/nologin sarah  
[root@node1 ~]# useradd -s /sbin/nologin sarah  
useradd: user 'sarah' already exists  
[root@node1 ~]# id harry  
uid=1001(harry) gid=1002(harry) groups=1002(harry),1001(adminuser)  
[root@node1 ~]# id natasha  
uid=1002(natasha) gid=1003(natasha) groups=1003(natasha),1001(adminuser)  
[root@node1 ~]# id sarah  
uid=1003(sarah) gid=1004(sarah) groups=1004(sarah)  
[root@node1 ~]#
```

word of “centtered”.

Q5: Cron job --

Configure a cron job for the user “natasha” that runs daily every 14:23 minute local time executes “Ex200 is processing” with logger.

Configure a cron job for the user “natasha” that runs daily every 1-minute local time executes “Ex200 is processing” with logger.

```
23 14 * * * logger 'Ex200 is processing'
* * * * * logger 'Ex200 is processing'
~
~
~
```

Q6: Create a collaborative directory. - - - -

Create a directory `/home/admin` with the following characteristics.

Group ownership of `/home/admin` is `adminuser`.

The directory should be readable, writable, and accessible to member of `adminuser`, but not any other user.

Files created in `/home/admin` automatically have group ownership set to the `adminuser` group.

```
root@node1:~
[root@node1 ~]# mkdir /home/admin
[root@node1 ~]# chgrp adminuser /home/admin
[root@node1 ~]# chmod 2770 /home/admin
[root@node1 ~]# ls -ld /home/admin
drwxrws---. 2 root adminuser 6 Feb 25 04:05 /home/admin
[root@node1 ~]#
```

Q7: Create user 'alex' with 3456 uid and set password to "centered".

```
root@node1:~  
[root@node1 ~]# useradd -u 3456 alex  
[root@node1 ~]# echo "centtered" | passwd --stdin alex  
Changing password for user alex.  
passwd: all authentication tokens updated successfully.  
[root@node1 ~]# id alex  
uid=3456(alex) gid=3456(alex) groups=3456(alex)  
[root@node1 ~]#
```

Q8: Locate all the files owned by user “natasha” and copy them under /root/locatedfiles.

```
root@node1:~  
[root@node1 ~]# mkdir -p /root/locatedfiles  
[root@node1 ~]# find / -user natasha -type f -exec cp --parents {} /root/locatedfiles \  
find: '/proc/8475/task/8475/fdinfo/5': No such file or directory  
find: '/proc/8475/fdinfo/6': No such file or directory  
find: '/run/user/1000/gvfs': Permission denied  
[root@node1 ~]# ls -R /root/locatedfiles  
/root/locatedfiles:  
home var  
  
/root/locatedfiles/home:  
natasha  
  
/root/locatedfiles/home/natasha:  
  
/root/locatedfiles/var:  
spool  
  
/root/locatedfiles/var/spool:  
mail  
  
/root/locatedfiles/var/spool/mail:  
natasha  
[root@node1 ~]#
```

Q9: Find a string 'strato' from /usr/share/dict/words and put it into /root/lines file.

```
root@node1:~  
[root@node1 ~]# grep "strato" /usr/share/dict/words > /root/lines  
[root@node1 ~]# cat /root/lines  
administrator  
administrators  
administratorship  
bistratose  
Canestrato  
castrato  
castrator  
castrators  
castratory  
cirro-stratous  
coadministrator  
counterdemonstrator  
counterdemonstrators  
demonstrator  
demonstrators  
demonstratorship  
demonstratory  
fenestrato  
frustratory  
humistratous  
illustrator  
illustrators
```

Q10: Configure AutoFS

Configure autofs to automount the home directories of remote users. NFS export

/home on your system. In system have preconfigured for remoteuser20

Note: the following requirements automount remoteuser20 home directory: -

remoteuser20 is exported on

classroom.example.com(192.168.71.254):/home/remoteuser20 - -

remoteuser20 home directory should be automounted locally beneath

/home as /home/remoteuser20.

home directories must be writable by their users.

```
[root@node1 ~]# dnf install autofs -y
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to r
egister.

Last metadata expiration check: 0:19:10 ago on Wed 25 Feb 2026 03:50:32 AM EET.
Package autofs-1:5.1.7-36.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@node1 ~]# vi /etc/auto.remoteuser
[root@node1 ~]# vi /etc/auto.master
[root@node1 ~]# systemctl enable --now autofs
Created symlink /etc/systemd/system/multi-user.target.wants/autofs.service → /usr/lib/systemd/s
ystem/autofs.service.
[root@node1 ~]# ls /home/remoteuser20
```

Q11: Create an archive.

a. Create an archive ‘/root/backup.tar.bz2’ of /usr/local directory and compress it with

```
[root@node1 ~]# tar -cjf /root/backup.tar.bz2 /usr/local
tar: Removing leading `/' from member names
[root@node1 ~]# ls -lh /root/backup.tar.bz2
-rw-r--r--. 1 root root 489 Feb 25 04:12 /root/backup.tar.bz2
[root@node1 ~]# █
```

bzip2.

Q12: Create a container for alth user

- Use this link: <http://domain.exam.com/rhel9/Containerfile> build image named monitor.
- Don't change anything in Container file.

```

[root@node1 containerlab]# podman build -t monitor .
STEP 1/3: FROM registry.access.redhat.com/ubi9/ubi
Trying to pull registry.access.redhat.com/ubi9/ubi:latest...
Getting image source signatures
Checking if image destination supports signatures
Copying blob 56b2ec53eb90 done
Copying config 0b32f0d6c0 done
Writing manifest to image destination
Storing signatures
STEP 2/3: RUN dnf install -y asciidoc && dnf clean all
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use subscription-manager to regi
ster.

Red Hat Universal Base Image 9 (RPMs) - BaseOS 40 kB/s | 533 kB 00:13
Red Hat Universal Base Image 9 (RPMs) - AppStre 138 kB/s | 2.6 MB 00:19
Red Hat Universal Base Image 9 (RPMs) - CodeRea 23 kB/s | 288 kB 00:12
No match for argument: asciidoc
Error: Unable to find a match: asciidoc

```

```

root@node1:~/containerlab
[root@node1 html]# mkdir -p /root/containerlab
[root@node1 html]# mkdir -p /root/containerlab
[root@node1 html]# cd /root/containerlab
[root@node1 containerlab]# curl -o Containerfile http://domain.exam.com/rhel9/Containerfile
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 104 100 104 0 0 52000 0 --:--:-- --:--:-- --:--:-- 52000
[root@node1 containerlab]# cat Containerfile
FROM registry.access.redhat.com/ubi9/ubi
RUN dnf install -y asciidoc && dnf clean all
CMD ["/bin/bash"]
[root@node1 containerlab]# podman build -t monitor .
STEP 1/3: FROM registry.access.redhat.com/ubi9/ubi
Trying to pull registry.access.redhat.com/ubi9/ubi:latest...
Getting image source signatures
Checking if image destination supports signatures
Copying blob 56b2ec53eb90 done
Copying config 0b32f0d6c0 done
Writing manifest to image destination
Storing signatures
STEP 2/3: RUN dnf install -y asciidoc && dnf clean all
Updating Subscription Management repositories.
Unable to read consumer identity

```

Q13: Create a rootless container.

- Create a container name asciipdf
- Use monitor image for asciipdf which you previously created.
- Create a system service named container-asciipdf for alth user only.
- Servie will automatically started across reboot.

- Local directory `/opt/files` attached to container directory `/opt/incoming`.
- Local directory `/opt/processed` attached to container directory `/opt/outgoing`.
- If the service work properly, when you place any plain text file in `/opt/file`, then this file automatically converted into pdf and also placed under `/opt/processed`.

```

[alth@localhost ~]# mkdir -p /home/alth
[alth@localhost ~]# mkdir -p /home/alth
[alth@localhost ~]# mkdir -p /opt/alth_home
[alth@localhost ~]# useradd -M -d /opt/alth_home alth
[alth@localhost ~]# echo "centtered" | passwd --stdin alth
Changing password for user alth.
passwd: all authentication tokens updated successfully.
[alth@localhost ~]# chown -R alth:alth /opt/alth_home
[alth@localhost ~]# chmod 700 /opt/alth_home
[alth@localhost ~]# mkdir -p /opt/files /opt/processed
[alth@localhost ~]# chown alth:alth /opt/files /opt/processed
[alth@localhost ~]# chmod 700 /opt/files /opt/processed
[alth@localhost ~]# sudo -u alth podman build -t monitor /home/alth
cannot chdir to /root: Permission denied
Error: setting up the process
[alth@localhost ~]# vi /opt/alth_home/Containerfile
[alth@localhost ~]# sudo -u alth podman build -t monitor /opt/alth_home
cannot chdir to /root: Permission denied
Error: setting up the process
[alth@localhost ~]# su - alth
[alth@localhost ~]$ cd
[alth@localhost ~]$ ls -l Containerfile
-rw-r--r--. 1 root root 477 Feb 25 04:28 Containerfile
[alth@localhost ~]$ podman build -t monitor .
WARN[0000] The cgroupv2 manager is set to systemd but there is no systemd user session available
WARN[0000] For using systemd, you may need to login using an user session
WARN[0000] Alternatively, you can enable lingering with: `loginctl enable-linger 1004` (possibly
ve the mouse pointer inside or press Ctrl+G.

```

Q14: Make a simple script. <To be Checked> - - - -

Create myscript file to locate all files under `/usr/` of less than 10MB with permissions user identifier (SGID).

Save all these files in list `/root/script`.

Copy script file in /usr/local/bin.

Make sure that the script run at any location.

```
root@node1:/  
[root@node1 /]# vim /root/myscript  
[root@node1 /]# chmod +x /root/myscript  
[root@node1 /]# cp /root/myscript /usr/local/bin/myscript  
[root@node1 /]# myscrip  
[root@node1 /]# cat /root/script  
/usr/bin/write  
/usr/bin/locate  
/usr/sbin/lockdev  
/usr/libexec/utempter/utempter  
/usr/libexec/openssh/ssh-keysign  
[root@node1 /]# █
```

```
root@node1:/  
#!/bin/bash  
find /usr -type f -size -10485760c -perm -2000 > /root/script  
~  
~  
~  
~  
~  
~  
~
```

Q15: Set the permissions:

a. All the new creating files for user “natasha” as -r-- --- --- as default permission.

b. All the new creating directories for user “natasha” as dr-x --- --- as default

permission.

c. Set the password expire date: The password for all new users in 1st server

should expires after 20 days.

d. Assign sudo Privilege: Assign the sudo Privilege for Group “adminuser” and

Group members can administrate without any password.

```
[root@node1 ~]# setfacl -R -m u:natasha:r-- /home/natasha
[root@node1 ~]# setfacl -R -d -m u:natasha:r-- /home/natasha
```

```
[root@node1 ~]# setfacl -m u:natasha:r-x /home/natasha
[root@node1 ~]# setfacl -d -m u:natasha:r-x /home/natasha
```

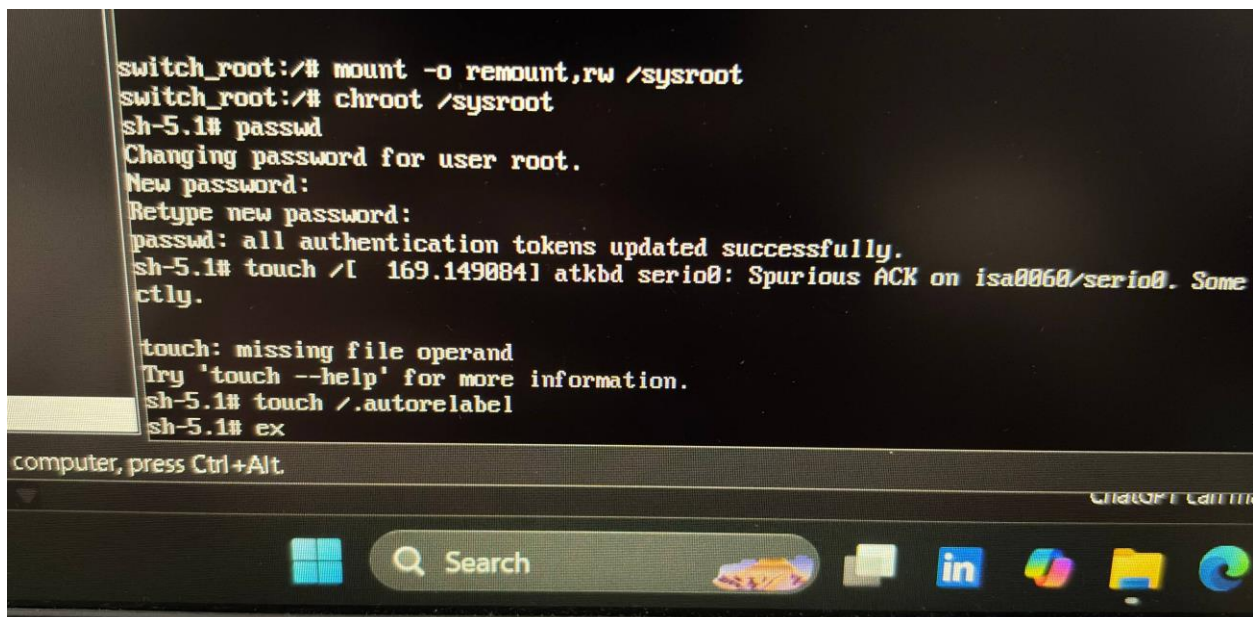
```
PASS_MAX_DAYS      20
PASS_MIN_DAYS      0
PASS_WARN_AGE      7
```

```
## Allow root to run any commands anywhere
root    ALL=(ALL)    ALL
samy    ALL=(ALL)    ALL
it1     ALL=(ALL)    ALL
Joel    ALL=(ALL)    ALL
%adminuser ALL=(ALL) NOPASSWD: ALL
```

- Node2.example.com:

Q1: Reset root password and make it “centered”. <You should take care to

enter the GRUB mode of the Rescue part and not from the default part>



```
switch_root:/# mount -o remount,rw /sysroot
switch_root:/# chroot /sysroot
sh-5.1# passwd
Changing password for user root.
New password:
Retype new password:
passwd: all authentication tokens updated successfully.
sh-5.1# touch /[ 169.149084] atkbd serio0: Spurious ACK on isa0060/serio0. Some
tly.
touch: missing file operand
Try 'touch --help' for more information.
sh-5.1# touch /.autorelabel
sh-5.1# ex
```

Q2: Configure your Red hat VM repository installed the packages distribution is

available via YUM:

1. BaseOS url= http://domain10.example.com/rhel9/x86_64/dvd/BaseOS

2. AppStream url=

http://domain10.example.com/rhel9/x86_64/dvd/AppStream

Q3: Resize the logical volume name lv to 300 MB. Make sure in lv volume have

some data, data should not be affected by resizing. Do not remove or modify

/etc/fstab

```
root@node1:~
[root@node1 ~]# lvcreate -L 300M -n docs test0
  Volume group "test0" has insufficient free space (39 extents): 75 required.
[root@node1 ~]# lvcreate -L 150M -n docs test0
mkfs.ext4 /dev/test0/docs
mkdir -p /mnt/docs
mount /dev/test0/docs /mnt/docs
  Rounding up size to full physical extent 152.00 MiB
WARNING: xfs signature detected on /dev/test0/docs at offset 0. Wipe it? [y/n]
y
  Wiping xfs signature on /dev/test0/docs.
  Logical volume "docs" created.
mke2fs 1.46.5 (30-Dec-2021)
Creating filesystem with 155648 1k blocks and 38912 inodes
Filesystem UUID: 8fc368db-c51d-4348-aae5-bffc19021ce2
Superblock backups stored on blocks:
    8193, 24577, 40961, 57345, 73729

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

```

mount: /mnt/docs: /dev/mapper/test0-docs already mounted.
[root@node1 ~]# cat /etc/fstab
#
# /etc/fstab
# Created by anaconda on Fri Feb 20 09:52:02 2026
#
# Accessible filesystems, by reference, are maintained u
# See man pages fstab(5), findfs(8), mount(8) and/or blk
#
# After editing this file, run 'systemctl daemon-reload'
# units generated from this file.
#
/dev/mapper/rhel-root / xfs
UUID=1fc57959-1b58-443e-bee3-c4392edaffb2 /boot
ts 0 0
UUID=EBF0-9359 /boot/efi vfat
nt 0 2
/dev/mapper/rhel-swap none swap
LABEL=data /data ext4 defaults 0 0
/swapfile swap swap defaults 0 0
/dev/test0/data /mnt/data xfs defaults 0 0
/dev/test0/docs /mnt/docs ext4 defaults 0 0
[root@node1 ~]#

```

Q4: Add a swap partition of 715MB and mount it permanently.

```

root@node1:~
[~]# lvcreate -L 4M -n swap test0
Logical volume "swap" created.
[~]# mkswap /dev/test0/swap
Setting up swapspace version 1, size = 4 MiB (4190208 bytes)
no label, UUID=d80a09ec-5967-429f-956c-279442024e95
[~]# swapon /dev/test0/swap
[~]#

```

Q5: Create a Logical Volume - - -

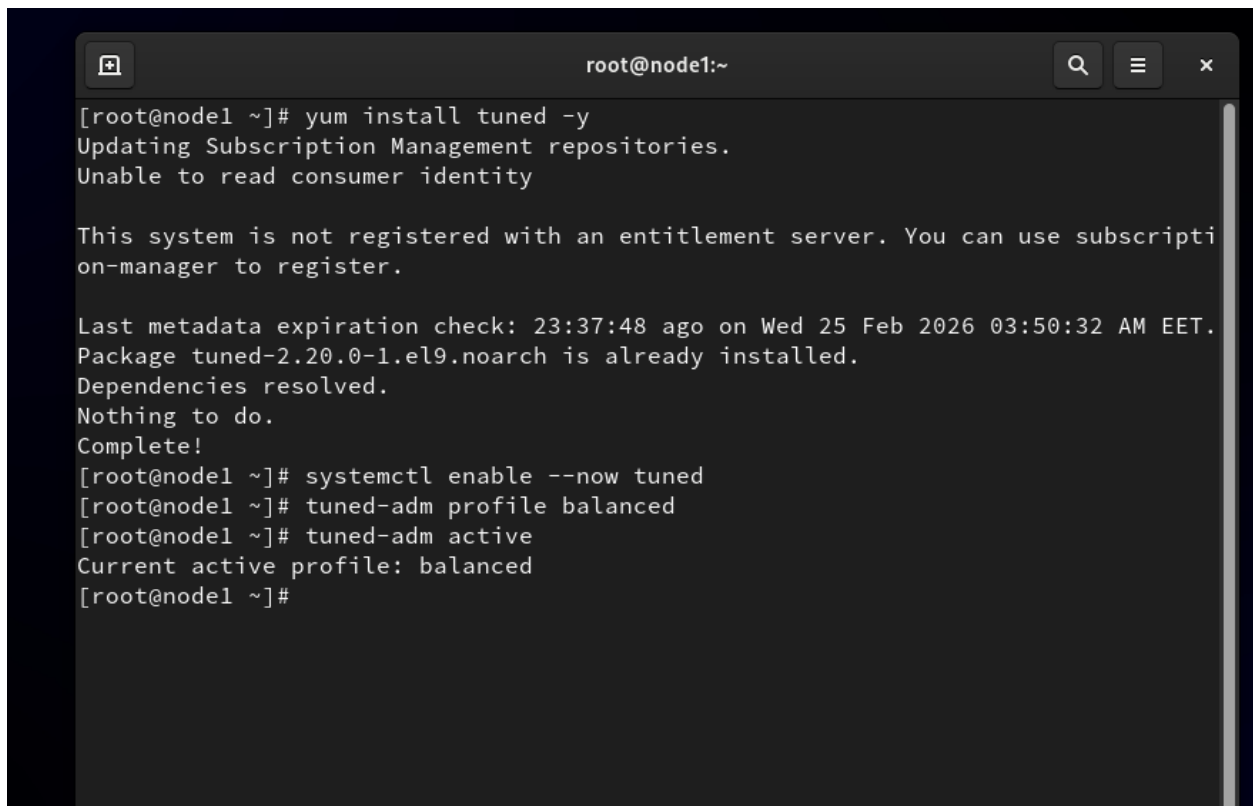
Create a logical volume “database” by using 50 PEs from the volume group

“datastore”.

Consider that each PE size of volume group as “16MB”.

Format with ext3 filesystem and mount permanently under
/mnt/database

Q6: Configure recommended tuned profile.



```
root@node1:~  
[root@node1 ~]# yum install tuned -y  
Updating Subscription Management repositories.  
Unable to read consumer identity  
  
This system is not registered with an entitlement server. You can use subscrip  
tion-manager to register.  
  
Last metadata expiration check: 23:37:48 ago on Wed 25 Feb 2026 03:50:32 AM EET.  
Package tuned-2.20.0-1.el9.noarch is already installed.  
Dependencies resolved.  
Nothing to do.  
Complete!  
[root@node1 ~]# systemctl enable --now tuned  
[root@node1 ~]# tuned-adm profile balanced  
[root@node1 ~]# tuned-adm active  
Current active profile: balanced  
[root@node1 ~]#
```