

**Important Configuration:-**

You have to configure servera.lab.example.com and serverb.lab.example.com with the following requirements.

Your Domain name:- lab.example.com

Your Network:- 172.25.250.0/255.255.255.0

Hostname:- servera.lab.example.com and serverb.lab.example.com

Your root user password for serverb.lab.example.com is redhat

servera.lab.example.com ip address is 172.25.250.10

**serverb.lab.example.com should be contain this following details****1. Configure the network****a) Assign Hostname and Ip address for your virtual machine.**

Hostname serverb.lab.example.com

IP Address 172.25.250.11

Netmask 255.255.255.0

Gateway 172.25.250.254

Nameserver 172.25.250.254

**2. Create a repository**

[http://content/rhel9.0/x86\\_64/dvd/AppStream](http://content/rhel9.0/x86_64/dvd/AppStream)

[http://content/rhel9.0/x86\\_64/dvd/BaseOS](http://content/rhel9.0/x86_64/dvd/BaseOS)

**3. Configure the Selinux****a) Your webcontent has been configured in port 82 at the /var/www/html directory**

(Don't alter or remove any files in this directory) Make the content accessible.

**4. Create the following users, groups and group memberships:****a) A group named admin.**

- b) A user harry who belongs to admin as a secondary group.
- c) A user natasha who belongs to admin as a secondary group.
- d) A user sarah who does not have access to an interactive shell on the system and who is not member of admin.
- e) The users harry,natasha,sarah should all have password of password.

5. Create a collaborative directory /common/admin with the following characteristics:

- a) Group ownership of /common/admin is admin.
- b) The directory should be readable,writable and accessible to members of admin, but not to any other user.

(It is understood that root has access to all files and directories on the system.)

- c) Files created in /common/admin automatically have group ownership set to the admin group.

6. Configure autofs to automount the home directories of production5 domain users. Note the following:

- a) servera.lab.example.com (172.25.250.10) NFS -exports /user-homes to your system.
- b) production5 home directory is servera.lab.example.com:/user-homes/production5
- c) production5 home directory should be automounted locally mapped to /localhome in your system
- d) home directories must be writable by their users.
- e) While you are able to log in as any of the users production1 through production30, the only home directory that is accessible from your system is production5.

7. Set a Cron job for harry on 12.30 at noon print /bin/echo on "hello".

8. Configure the NTP

- a) Configure your system so that it is an NTP client of classroom.example.com

9. Locate the Files

- a) Find the owner of the file sarah and copy the file to given path of /root/find.user

10. Find the string

- a) Find a string "home" in /etc/passwd and searching string as been stored in /root/search.txt

#### 11. Create a user account

- a) Create a new user with UID 1326 and user name as alies.

#### 12. Create an archive file

- a) Backup the /var/tmp as /root/test.tar.gz

#### 13. Build a container as user student

- a) Using the URL to build the container image with name monitor.
- b) Do not modify the container file

#### 14. Configure the container as a system start-up service and mount volumes persistently

- a) Create the container name as ascii2pdf as student user
- b) Run the container by using image monitor which one was already done in previous
- c) Create the container as a system start-up service, While reboot it will automatically start the service without any human intervention.
- d) The system service should be container-ascii2pdf.
- e) The local directory /opt/files should be persistently mount on container's /opt/incoming directory.
- f) The local directory /opt/processed should be persistently mount on container's /opt/outcoming directory.

In working of service starts, any file create/store under the /opt/files automatically creates into pdf on /opt/outcoming directory.

#### 15.1 Set the Permission

- a) All new creating files for user natasha as -r----- as default permission.
- b) All new creating directories for user natasha as dr-x----- as default permission.

#### 15.2 Set the Password expire date

- a) The password for all new users in serverb.lab.example.com should expires after 20 days.

#### 15.3 Assign Sudo Privilege

Assign the Sudo Privilege for Group "admin" and Group members can administrate without any password.

15.4 Configure the application RHCSA as an alies user, When login it will show the message

"Welcome to Advantage Pro"

15.5 Create the script file

a) Create a mysearch script to locate file under /usr/share having size less than 1M.

b) After executing the mysearch script file and listed(searched) files has to be copied under /root/myfiles.

**servera.lab.example.com should be contain this following details**

1. Assign root user password as northate.

2. Create a repository file

[http://content/rhel9.0/x86\\_64/dvd/AppStream](http://content/rhel9.0/x86_64/dvd/AppStream)

[http://content/rhel9.0/x86\\_64/dvd/BaseOS](http://content/rhel9.0/x86_64/dvd/BaseOS)

3. Create a swap partition 512MB size.

4. Create one logical volume named database and it should be on datastore volume group with size 50 extent and assign the filesystem as ext3.

(i) the datastore volume group extend should be 8MiB. (ii) mount the logical volume under mount point /mnt/database.

5. Resize the logical volume size of 100 extent on /mnt/database directory.

6. Set the recommend tuned profile for your system.