FINAL TEAM PROJECT

RHCSA V9 EX200 Exam Sample

-------------------------------- **Perform task on ServerA machine** -----------------------------------

Question-1:

Configure the network.

Assign hostname and ip address for your virtual machine.

> IP ADDRESS = 192.168.1.253
> NETMASK = 255.255.255.0
> GATEWAY = 192.168.1.3
> DNS = 192.168.1.1
> Hostname = serverA.example.com

> **SUBMIT:** A screenshot of the network configuration displayed by **nmtui**

Question-2:

Create a repository in serverA named local.repo using the configuration below.

BaseOS url = http://content.example.com/rhel8.0/x86_64/dvd/BaseOs
AppStream url= http://content.example.com/rhel8.0/x86_64/dvd/Appstream

SUBMIT : A screenshot of **cat /etc/yum.repos.d/local.repo**
Note: Delete the repo file after the screenshot is taken.

Question-3:

Create the following users, groups, and group membership:

- A group named sysadm.
- A user "harry" who belongs to sysadm as a secondary group.
- A user "natasha" who belongs to sysadm as a secondary group.
- A user "sarah" who does not have access to an interactive shell and is not a member of the
  sysadm group.
  - "harry", "natasha", and "sarah" should all have the password of janclass.
  - "sysadm" group has access to add user in the server
  - User "harry" has access to set password for users without asking sudo password

SUBMIT: A screenshot of
  *Only the last five lines of /etc/passwd
  *Only the last five lines of /etc/shadow
  * Only the last line of /etc/group
~ The screenshot should also show the command used.

Question-4:

Create a collaborative directory /shared/sysadm with the following characteristics:

- Group ownership of /shared/sysadm is sysadm.
- The directory should be readable, writable, and accessible to members of sysadm, but not to any other user.

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

- Files created in /shared/sysadm automatically have group ownership set to the sysadm group.

SUBMIT: Screenshot of "ls -l /shared/sysadm"

Question-5:

Set The Cron Job for the user "natasha" that should run daily every 1 minute local time and executes "Ex200 Testing" with logger.

SUBMIT: A screenshot of all jobs scheduled by natasha

Question-6:

Create 3 compress files of /etc/hosts file called hosts.tar.gzip, hosts.tar.bzip2 and hosts.tar.xz under /mnt

SUBMIT: A screenshot of "ls -l /mnt"

Question-7:

Copy the file /etc/fstab to /var/tmp. Configure the permissions of /var/tmp/fstab so that:

- the file /var/tmp/fstab is owned by the root user
- the file /var/tmp/fstab belong to the group root
- the file /var/tmp/fstab should not be executable by anyone
- the user "natasha" is able to read and write /var/tmp/fstab
- the user "harry" can neither write nor read /var/tmp/fstab
- all other users (current or future) have the ability to read /var/tmp/fstab

SUBMIT: A screenshot of

 * ls -l /var/tmp/fstab   * getfacl /var/tmp/fstab

Question-8:

Find all files and directories created by user "harry" on the system and copy it to "/root/harryfiles" directory.

SUBMIT: A screenshot of the contents of harryfiles

Question-9:

Find all strings "ich" from the "/usr/share/dict/words" file and copy those strings to the /root/lines file.

SUBMIT: A screenshot of ls -l /root/lines

Question-10:

Create a user barry. User id of this user should be 2112 and set password "interview"
SUBMIT: A screenshot of "getent passwd barry"

PART II
----------------------- **Perform task on ServerB machine**-----------------------------

Question-11

Admin has forgotten the root password. Reset the root password to "sixfigures"

SUBMIT: Document and share your steps on pastebin.com . Share the url link.
Checkout this example, https://pastebin.com/fChiqxqg

Question-12:

Configure Your serverB VM repository named local2.repo

baseos url = http://content.example.com/rhel8.0/x86_64/dvd/BaseOs

appstream url= http://content.example.com/rhel8.0/x86_64/dvd/AppStream

SUBMIT: A screenshot of the contents of local2.repo
Note: Delete the repo file after the screenshot is taken.

Question-13:

Create an LVM name wshare from wgroup volume group. Note the following:

PE size should be 8MB

LVM size should be 50 extents

Format with "ext4" file system and mount it under /mnt/wshare. And it should auto mount after next reboot

SUBMIT: A screenshot of
        * lsblk   * df -h   * cat /etc/fstab

Question-14:

Create a swap partition of 400M MB and mount it persistently.

SUBMIT: A screenshot of
        * lsblk   * cat /etc/fstab

Question-15:

Resize your logical volume, it should be approx 300MB

(note -> only size accepted from 270mb to 290mb).

SUBMIT: A screenshot

        * vgs   * lvs   * lsblk

Question-16:

Set the tuned profile for your system to "virtual-host"

SUBMIT: A screenshot of "tuned-adm active"

Question-17:

Create a simple bash script to echo "creating script" and then create a file named

"working" under /tmp

SUBMIT: A screenshot of the contents of the script.

Question-18:

Configure autofs to persistently mount a shared directory under /mnt/nfsfiles, this directory is

accessible in 192.168.1.253:/sharedfiles
Hint : nfs server - serverA (192.168.1.253)
       Nfs client - serverB (192.168.1.X) x- whatever your ip is.

SUBMIT: On the client, a screenshot of * lsblk   * cat /etc/fstab

Question-19:

Build an application testapp that prints the message "Welcome Linda" when user linda logs in to the
system.

SUBMIT: A screenshot of the message displayed after linda logs in

Question-20:

Build a free tier eligible RHEL 9 EC2 instance. Use the build parameters provided below

Name - rhel9_ec2
Volume type - SSD
Instance type - t2.micro
Keypair - name = rhel9-ec2key , type = ED25519 , format = .pem
Storage - 20 GB of EBS General Purpose (SSD) gp3

SUBMIT: From your local machine, connect remotely to your EC2 instance and take a screenshot of
the following
         * hostname   * ip a   *lsblk