ALC LABS, RHEL Internal Exam

Please read below instructions carefully.

1.default gateway: 192.168.1.20
2.dns server : 192.168.2.45
3.vcenter login details:
url: https://vcenter.alclabs.in
username: Provided in the class room
password: Provided in the class room
4.You will be given two virtual machines. One is Server and the other is desktop.
Find your server and desktop in the vcenter with name 'yourname_server' and 'yourname_desktop'. Example: to find server for user trainer, server name is trainer_server and to find the desktop, trainer_desktop.
5.Set the server and desktop names (FQDN) as serverX.alclabs.in. and desktopX.alclabs.in Where X is the server number.
ii)You dont know the root password of both virtual machines. Recover them and set root password of your server and desktop as Spartans01
iii)Configgure the ip address of the Server as 192.168.X.100/16 where X is your server number and ip address of the Desktop as 192.168.X.200/16 where X is your server number.
iv)The yum repository is available at URLs given below
a) RHEL Ver 8.2 is at
ftp://192.168.2.45/BaseOS
ftp://192.168.2.45/AppStream
b) RHEL Ver 8.3
http://192.168.2.45:91/BaseOS
http://192.168.2.45:91/AppStream
Note that you must not configure yum repository with local DVD. Also note that, all the configurations you do in the server and desktop to be persistent even after reboot. You work is evaluated after the server reboot.

Q1).
a)In both desktop and server, Create a group named "stoogs". A user "curly" and "larry" should belongs to "stoogs" group as a secondary group. A user "moe" should not have access to interactive shell and he should not be a member of "stoogs" group. passwd for all user created should be "jenny"
b)The user curly must configure a cron job that runs Every Friday of July at 14:23 and executes /bin/echo "hyer" and deny the user larry for creating cronjob

Q2)
Automount the home directory at desktopX.alclabs.in
Note the following.. In the Desktop, appuser's home directory should be automounted locally beneath at /home/guests/appuser. From the NFS server "serverX.alclabs.in" the NFS share "/home/appuser" is to be exported. Create appuser appropriately and set password as 'appuser'

Q3)
Copy the /etc/fstab to /var/tmp and configure the ACL as mention following.
The file /var/tmp/fstab is owned by the "root". The file /var/tmp/fstab belongs to the group "root". The file /var/tmp/fstab should not be executable by others. The user "curly" should able to read and write to the file. The user "larry" can neither read nor write to the file. Other users(future and current) should be able to read /var/tmp/fstab.

Q4)
i)Compress “/etc” folder under the directory “/opt”. Automount the NFS share "/shares/manual" on the directory /opt/tmp in desktopX.alclabs.in from the serverX.alclabs.in, where X is your station number. You may need

export if the export is not exist already in the server.
ii) Configure SSH as under -
User natasha(if user doesnt exists, create one, and provide the password same as username) should be able to login via ssh service from serverX to desktopX without password.

Q5)
Configure network teaming in between the two systems(both server and desktop) with eth1 and eth2, so that at any time if one interface goes down then the other should be immediately up and running without causing any disruption in network communication. Choose IP in X+100 Subnet on both desktop and server. NOTE:- If you don't find the aforementioned ens224 and ens256 in your system, ask the instructor for help.

Q6)
Configure an ISCSI target on serverX.alclabs.in, where 'X' is your system number, to share a LUN of 1GB which can only be accessed from desktopX.alclabs.in, where 'X' is your system number.

Q7)
Configure an ISCSI initiator on desktopX.alclabs.in, where 'X' is your system number, to access the LUN shared by its target as configured in the last task and create a partition of length 512MiB and mount it permanently on /target with default filesystem.

Q8)
On serverX.alclabs.in, where 'X' is your system number, export the directory "/exported" via nfs, so that any client within "192.168.X.0/16", where 'X' is your system number, network should have readonly access on the nfs share.

Q10)
From the nfs server, serverX.alclabs.in, where 'X' is your system number, mount the "/exported" share permanently at /mnt/nfs-exported on desktopX.alclabs.in, where 'X' is your system number.

Q11)
Configure a samba share by the name "smbshare" that can be accessible only from "192.168.X.0/24", where 'X' is your system number, network. The user sarah should have read-write permission on the share. The user bob should have read-only permission on the share. The share should be browseable. Your samba server must be a member of STAFF workgroup.

Q12)
On desktopX.alclabs.in, where 'X' is your system number, mount the samba share permanently on /mnt/salesshare. Mount the samba share with the credentials of user "sarah".

Q13)
Update only the kernel using 8.3 version repository.

End