Exam1

Node 1 `node1.example.com`

1. Set network connection

- Set IPv4 address 192.168.0.10/24
- Set Gateway address 192.168.0.1
- Set DNS Server address 192.168.0.1
- Set the new connection for autostart

2. Set a proper target

- Set up default target on multi-user

3. Install package

- Set repository for packages from http://main.example.com/repo
- Install the latest package of httpd
- Change default port for httpd for 35000
- Set up firewalld to allow httpd service use port 35000/tcp
- Set up httpd service to start on boot

4. Set users and groups

- Create a group named students
- Create 3 users named Anna, Bob, Joe with the main group of students
- Add Anna supplementary group administrators
- Add group administrators Sudo privileges without using a password

5. User modifications

- Change the password policy for the Bob account to require a new password every 30 days
- Change default shell for the account Joe to nologin
- Force Anna and Bob to change their passwords on the first login

6. Collaborative directory

- Create directory /collaboration
- Set group students as an owner of /collaboration directory
- Others should have forbidden access to the directory
- Every file created in /collaboration directory should have group students

7. Permissions

- Copy /etc/passwd file to /var/tmp/passwd_backup
- Set the owner of /var/tmp/passwd_backup user Anna and group administrators
- Additionally, only user Bob should have read-only access to /var/tmp/passwd_backup

8. Set cron job for a user

- Set cron job for a user Anna to send message “Hello World” to logs every 5 minutes

9. Set time synchronization

- Set server main.example.com for a default NTP server

10. Automount NFS directory

- Configure automatically mount directory /mnt/nfs_share Filesystem is exported from host main.example.com:/export_files

11. Basic tools management

- Create directory /findings
- Find all files which belong to user Anna copy them to directory /findings

12. Create VDO volume

- Create Logical Volume called rhcsa with logical size 50GB
- Mount created logical volume to /vdo_logical with the XFS filesystem
- Mount should be persistent

Node 2 `node2.example.com`

1. Gain access to the host

- Set password for the root user for “unknown”

2. LVM configuration

- Extend logical volume called “lv_rhcsa” by 512MiB. The filesystem should be also extended
- LV lv_rhcsa is mounted to mount point /app

3. Swap configuration

- Create a new partition on a disk /dev/sdb with size 512M
- Use newly created partition to add to current swap space
- New swap should be automatically activated at boot

4. Manage firewalld

- Add service samba to the default zone to open traffic for samba ports