

# RHCSA Practice Exam C

## General Notes

Here are some tips to ensure your exam starts with a clean environment:

- You do not need any external servers or resources.
  - Do *not* register or connect to any external repositories.
  - Install a new VM according to the instructions in each practice exam.
  - No sample solutions are provided for these practice exams. On the real exam, you need to be able to verify the solutions for yourself as well.
  - You should be able to complete each exam within two hours.
1. Install a RHEL 8 or CentOS 8 virtual machine that meets the following requirements:
    - 2 GB of RAM
    - 20 GB of disk space using default partitioning
    - One additional 20-GB disk that does not have any partitions installed
    - Server with GUI installation pattern
  2. Create user **student** with password **password**, and user **root** with password **password**.
  3. Configure your system to automatically loop-mount the ISO of the installation disk on the directory **/repo**. Configure your system to remove this loop-mounted ISO as the only repository that is used for installation. Do *not* register your system with **subscription-manager**, and remove all reference to external repositories that may already exist.
  4. Reboot your server. Assume that you don't know the root password, and use the appropriate mode to enter a root shell that doesn't require a password. Set the root password to **mypassword**.
  5. Set default values for new users. Make sure that any new user password has a length of at least six characters and must be used for at least three days before it can be reset.

6. Create users **edwin** and **santos** and make them members of the group **sales** as a secondary group membership. Also, create users **serene** and **alex** and make them members of the group **account** as a secondary group.
7. Create shared group directories **/groups/sales** and **/groups/account**, and make sure these groups meet the following requirements:
  - Members of the group **sales** have full access to their directory.
  - Members of the group **account** have full access to their directory.
  - Users have permissions to delete only their own files, but **alex** is the general manager, so user **alex** has access to delete all users' files.
8. Create a 4-GiB volume group, using a physical extent size of 2 MiB. In this volume group, create a 1-GiB logical volume with the name **myfiles** and mount it persistently on **/myfiles**.
9. Create a group **sysadmins**. Make users **edwin** and **santos** members of this group and ensure that all members of this group can run all administrative commands using **sudo**.
10. Optimize your server with the appropriate profile that optimizes throughput.
11. Add a new disk to your virtual machine with a size of 10 GiB. On this disk, create a VDO volume with a size of 50 GiB and mount it persistently.
12. Configure your server to synchronize time with **serverabc.example.com**, where **serverabc** is an alias to **myserver.example.com**. Note that this server does not have to exist to accomplish this exercise.
13. Configure a web server to use the nondefault document root **/webfiles**. In this directory, create a file **index.html** that has the contents **hello world** and then test that it works.
14. Configure your system to automatically start a **mariadb** container. This container should expose its services at port 3306 and use the directory **/var/mariadb-container** on the host for persistent storage of files it writes to the **/var** directory.
15. Configure your system such that the container created in step 14 is automatically started as a **Systemd** user container.