

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.

After applying these tips, you're ready to get started. Good luck!

1. Install a RHEL 9 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 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 references 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 **linda** and **anna** 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. Configure an SSH server that meets the following requirements:
 - User root is allowed to connect through SSH.
 - The server offers services on port 2022.
8. 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.
9. 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**, format it with the Ext3 file system, and mount it persistently on **/myfiles**.
10. Create a group **sysadmins**. Make users linda and anna members of this group and ensure that all members of this group can run all administrative commands using **sudo**.
11. Optimize your server with the appropriate profile that optimizes throughput.
12. Add a new disk to your virtual machine with a size of 10 GiB. On this disk, create a LVM logical volume with a size of 5 GiB, configure it as swap, and mount it persistently.
13. Create a directory **/users/** and in this directory create the directories **user1** through **user5** using one command.
14. 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.
15. 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.
16. Configure your system such that the container created in step 15 is automatically started as a Systemd user container.