RHCSA Practice Exam D

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. Create a 500-MiB partition on your second hard disk, and format it with the Ext4 file system. Mount it persistently on the directory /mydata, using the label **mydata**.
5. Set default values for new users. A user should get a warning three days before expiration of the current password. Also, new passwords should have a maximum lifetime of 120 days.

6. Create users **edwin** and **santos** and make them members of the group livingopensource as a secondary group membership. Also, create users **serene** and **alex** and make them members of the group operations as a secondary group.
7. Create shared group directories **/groups/livingopensource** and **/groups /operations**, and make sure the groups meet the following requirements:
   - Members of the group livingopensource have full access to their directory.
   - Members of the group operations have full access to their directory.
   - Others has no access to any of the directories.
   - Alex is general manager, so user alex has read access to all files in both directories and has permissions to delete all files that are created in both directories.
8. Create a 1-GiB swap partition and mount it persistently.
9. Find all files that have the SUID permission set, and write the result to the file /root/suidfiles.
10. Create a 1-GiB LVM volume group. In this volume group, create a 512-MiB swap volume and mount it persistently.
11. Add a 10-GiB disk to your virtual machine. On this disk, create a Stratis pool and volume. Use the name **stratisvol** for the volume, and mount it persistently on the directory /stratis.
12. Install a web server and configure it to listen on port 8080.
13. Create a configuration that allows user edwin to run all administrative commands using **sudo**.