

## RHCSA Sample Exam 1

Start with the preconfigured RHEL 7 system described in Appendix A. If necessary, make sure that system is currently powered down. As discussed in Appendix A, a current repository of the installation DVD is available from an FTP server configured on the local system. You'll have two and a half hours to complete the following tasks:

1. Make sure SELinux is set in enforcing mode.
2. Install the virtualization software on the local system.
3. Use the ks.cfg file from the Exams/ subdirectory to create a virtual machine. Modify it as needed to set up a system with the hostname server2.example.com on IPv4 address 192.168.122.51.
4. Configure the virtual machine to start automatically the next time the local physical host system is booted.
5. Use ssh to access the VM, as if it were a remote system. Set the new root password to RedHat4Ever! (note: the current root password is not provided).

The additional steps in this exam should be applied to the server2.example.com system.

6. Configure a new partition of 500MB in the available empty space of the drive. Create a physical volume on the new partition and a volume group named "vg01" with a physical extent size of 8MB. Configure a logical volume on the new volume group named "lv\_project" with a size of 32 logical extents.
7. Format the new logical volume with the xfs filesystem and mount it on the /project directory. Make sure it's automatically mounted the next time the system is booted. Use the UUID of the new volume.
8. Find all files in the /etc directory whose name terminates with the "\*.conf" extension and save their full filenames in the file /root/configfiles.txt.
9. Create a bzip-compressed tar archive named /tmp/etc.tar.bz2, containing all the files in the /etc directory.

10. Configure the following users for RHEL: nancy, randy, donna, and mike. Make nancy and randy part of a group named friends with GID 2000. Create a /home/friends directory and allow them to share files without having to change permissions or ownership on any file they put in this directory. Do not give donna or mike read privileges on this directory.
11. Make sure user mike's account expires after one week.
12. Set up a job to delete all of the regular files in the /home/mike/tmp directory on the second day of every month at 3:50 A.M.
13. Set up a project.test file in user mike's home directory. Configure ACLs on a file named project.test to allow user donna to read this file.
14. Configure the system to use the LDAP server 192.168.122.1 to retrieve user information and for authentication. Set the base LDAP search DN to dc=example,dc=com. Enable TLS.
15. Power down the exam system.