



RHCSA Practice Exam 4

This test exam needs the following setup:

- An IPA server that is offering central services such as Lightweight Directory Access Protocol (LDAP) and network File System (NFS). The setup of such a server is described in Appendix D, “Setting Up Identity Management.” Alternatively, the test VMs that are provided on rhatcert.com can be used.
- A cleanly installed virtual machine (VM). Step 1 of this test exam describes how to set up such a VM based on a kernel-based VM (KVM) setup. Notice that the IP addresses that are used in the VMs are based on the internal IP addresses in a KVM setup. If you’re using another virtualization platform, make sure to change the IP addresses accordingly.
- Unless specifically mentioned, all tasks described below should be performed on the VM.
 1. Install an RHEL 7 VM. Use a 12-GB LVM volume or disk backend file on the host as the storage backend for the VM. Use the bridged network interface on the host for networking in the VM. (This should normally be done automatically.) Make sure the VM meets the following requirements. All the following tasks are performed on the server unless stated otherwise:
 - a. 12 GiB total disk space.
 - b. IP address is obtained by using DHCP.
 - c. Set hostname to myserver1.example.com.
 - d. A 500-MiB boot partition.
 - e. A logical volume for the / file system with a size of 6 GiB.
 - f. A logical volume for swap with a size of 512 MiB.
 - g. Install the Server with GUI installation pattern.

2. Create two users: marsha and lara. Configure their password to be changed every 90 days.
3. Configure your server to start in non-graphical multiuser target by default.
4. Make sure that SELinux is in enforcing mode and that everything you configure in this test exam is fully functional.
5. Create an LVM logical volume with a size of 500 MiB and the name lvdata. This logical volume should be using the disk space that is offered by the vgall volume group. This volume group should have a size of 2 GB.
6. Format the LVM volume you've created in the previous step with the Ext4 file system and the file system label data. Configure the volume for automatic mounting on the directory /data through /etc/fstab.
7. Set up your server for LDAP authentication on labipa.example.com. Test that the authentication is setup successful, using the user account lisa with the password password that has been created on the labipa.example.com server.
8. Set up your server so that the message hiya is written to /var/log/hiya every 15 minutes past the hour.
9. Configure GRUB 2 so that during boot you can see all boot messages.
10. Copy all RPM files from the installation DVD to the directory /repo. Configure this directory so that it can be used as a repository. Configure your server as a client to this repository, so that all packages that will be installed, will be installed from the /repo directory.
11. Install a basic web server. In the default document root, create a file index.html with the contents "Welcome to the web server." Configure this web server to offer its services on port 888 only.
12. Set up your server to synchronize time with labipa.example.com.