# RHCSA Sample Exam 2

Start with the preconfigured RHEL 9 system specified in Appendix A. You have a total of 150 minutes to execute the following tasks. These tasks must be carried out on server1.example.com unless otherwise instructed.

1. Set the root password to changeme! (note: the existing root password is unknown).
2. Configure network settings: set the hostname to server1.example.com, and obtain IP and DNS client settings via DHCP.
3. Register your system to the Red Hat Subscription Management and enable automatic attachment of subscriptions to the system. Install the tmux RPM package.
4. Configure a new 500MiB partition in the remaining empty drive space.
5. Format the newly created partition with the XFS filesystem, and mount it onto a new directory named /sysadmins. Configure this filesystem to mount automatically upon the next system boot. Use the UUID of the new volume for this.
6. Create an additional 100MiB of swap space using the remaining empty drive space.
7. Configure the new swap space to mount automatically upon the next system boot. Use the UUID of the new volume for this.
8. Identify all files in the /etc directory containing the word “redhat” and save their full filenames in a file named /root/etc-redhat.txt.
9. Set up the following users: linus, richard, mark, and bill. Set their passwords to redhat123. Block users bill and richard from accessing the /sysadmins directory while granting access to linus and mark.
10. Set up the automounter and configure it to read the DVD located in the /misc/dvd directory.
11. Configure the system to boot into the multi-user target by default.
12. Set up time synchronization to get the time from the NTP server pool time.google.com.
13. Ensure SELinux is configured in permissive mode.
14. Configure the system to mount the tester1.example.com:/exports/nfsshare volume automatically at boot on the /mnt/nfs mount point on server1.example.com.
15. Add user mike on tester1.example.com with password changeme. Make sure user mark on the server1.example.com system can log in as mike on tester1.example.com utilizing key-based authentication using an RSA key length of 4096 bits. Use the following key passphrase:

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1. Set the active tuned profile to virtual-guest.
2. As user bill, create a Containerfile that constructs an image using the Red Hat UBI 9 image as the base, executing the **sleep 1d** command. Build the image and assign the tag “ubi-test” to it.
3. Ensure that all your changes persist after a system reboot. Power off the exam system.