RHCE Sample Exam 2

Start with the preconfigured RHEL 7 system described in Appendix A. 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. SELinux should be set to enforcing mode. You'll have three and a half hours to complete the following tasks:

1. [As a prerequisite, complete Exercise 12-5 on your physical system.] Configure the server1.example.com system to authenticate against the Kerberos KDC running on the physical host system. The realm must be set to EXAMPLE.COM.
2. Configure an NFS server to share the /nfsshare directory read-write with tester1.example.com. Export the volume securely with Kerberos authentication, communication integrity, and encryption.
3. Configure the tester1.example.com client to automatically mount the server1.example.com:/nfsshare volume on the /mnt/nfs mount point.
4. Set up an Apache web server with two regular virtual hosts. Set it up on the URLs test1.example.com and test2.example.com. Create and use the /web subdirectory for this purpose. Include the appropriate index.html files, with contents for each URL.
5. Set up a shared subdirectory named cubs on the test1.example.com Apache web server, accessible to users elizabeth and fred with HTTP basic authentication. Limit access to the local 192.168.122.0/24 network.
6. Configure a CGI script, accessible on the test1.example.com system. For that purpose, you may use the following code in an appropriate CGI script. Call it the good.pl file.

```
#!/usr/bin/perl
print "Content-type: text/html\n\n";
print "Good Job!\n";
```

7. Configure a caching-only DNS server that forwards requests to the physical host system.
8. Set up a local SMTP server as a null client that forwards all e-mails to the physical host system.

9. Configure an SSH server for user mike on the server1.example.com system. Configure key-based authentication from a remote system—either tester1.example.com or the physical host. Use the following passphrase:

```
Linux rocks, Windows does not.
```

10. Set up masquerading on the physical host system from the 192.168.122.0/24 to the 192.168.100.0/24 network.
11. Power off the virtual machine and add a network adapter. Select the virtio device model. Configure link aggregation (using either the bonding or teaming driver) in round-robin mode.
12. Configure a Samba server to share users' home directories.
13. Configure two NTP servers configured as peers.
14. Set up the server1 system to avoid responding to the **ping** command.