Labs

During the Red Hat exams, the tasks will be presented electronically. Therefore, this book presents most of the labs electronically as well. For more information, see the "Lab Questions" section toward the end of Chapter 13. Most of the labs for this chapter are straightforward and require a very few commands or changes to one or two configuration files.

Lab 1

In this lab, you'll set up a caching DNS name server on a local network. There should be a firewall configured on the DNS system.

Lab 2

In this lab, you'll set up a caching DNS server that also forwards requests to one specific alternative DNS server. That second DNS server can be a home network router, a DNS server assigned by an ISP, a DNS server for a corporate network, or (for test purposes) a DNS server in the /var/named/named.ca file. Before activating the service, make sure to clear the current cache. In addition, there should be a firewall configured on the DNS system, limiting access to the local network.

Lab 3

Configure Postfix to enable user authentication on the physical host system. Do not make any additional changes to the local system. Make sure e-mails can be sent from user to user locally. Forward e-mails directed to the local root account to a regular account on the local system.

Lab 4

Configure the Postfix system in Lab 3 to support access from the example.com network, or the corresponding IP address network. Configure a system on server1.example.com as a Postfix smart host, forwarding to the physical host system.

Lab 5

Configure the Postfix system in Lab 4 as a null client.

Lab 6

Create a 1GB logical volume on server1.example.com. Use that block device as a backstore for a new LUN on the iSCSI target with IQN iqn.2015-01.com.example:server1-disk1. Configure tester1.example.com as an iSCSI initiator with IQN iqn.2015-01.com.example:tester1. Set an ACL on the iSCSI target to grant access to tester1 only. Discover the remote LUN on tester1 and create a partition with an XFS filesystem. Ensure that the volume is mounted at boot.

Lab 7

In this lab, you'll create one NTP server as a peer to a second regular NTP server.