

## **Red Hat System Administration III**

### **Outline for this course**

#### **Control services and daemons**

Review how to manage services and the boot-up process using systemctl

#### **Manage IPv6 networking**

Configure and troubleshoot basic IPv6 networking on Red Hat Enterprise Linux systems

#### **Configure link aggregation and bridging**

Configure and troubleshoot advanced network interface functionality including bonding, teaming, and local software bridges

#### **Control network port security**

Permit and reject access to network services using advanced SELinux and firewalld filtering techniques

#### **Manage DNS for servers**

Set and verify correct DNS records for systems and configure secure DNS caching

#### **Configure email delivery**

Relay all email sent by the system to an SMTP gateway for central delivery

#### **Provide block-based storage**

Provide and use networked iSCSI block devices as remote disks

#### **Provide file-based storage**

Provide NFS exports and SMB file shares to specific systems and users

#### **Configure MariaDB databases**

Provide a MariaDB SQL database for use by programs and database administrators

#### **Provide Apache HTTPD web service**

Configure Apache HTTPD to provide Transport Layer Security (TLS)-enabled websites and virtual hosts

#### **Write Bash scripts**

Write simple shell scripts using Bash

#### **Bash conditionals and control structures**

Use Bash conditionals and other control structures to write more sophisticated shell commands and scripts

#### **Configure the shell environment**

Customize Bash startup and use environment variables, Bash aliases, and Bash functions