RH254: Red Hat System Administration III

Duration: 4 Days

Advanced skills for the experienced Linux administrator

Getting started with the classroom environment

Objective: Given a virtualized environment, begin to administrate multiple systems using prerequisite skills.

Enhance user security

Objective: Configure system to use Kerberos to verify credentials and grant privileges via sudo.

Bash scripting and tools

Objective: Automate system administration tasks utilizing Bash scripts and text-based tools.

File security with GnuPG

Objective: Secure files with GnuPG.

Software management

Objective: Use yum plug-ins to manage packages; understand the design of packages; build a simple package.

Network monitoring

Objective: Profile running services, then capture and analyze network traffic.

Route network traffic

Objective: Configure system to route traffic and customize network parameters with sysctl.

Secure network traffic

Objective: Secure network traffic through SSH port forwarding and iptables filtering/network address translation (NAT).

NTP server configuration

Objective: Configure an NTP server.

File systems and logs

Objective: Manage local file system integrity; monitor systems over time and system logging.

Centralized and secure storage

Objective: Access centralized storage (iSCSI) and encrypt file systems.

SSL-encapsulated web services

Objective: Understand SSL certificates and deploy an SSL-encapsulated web service.

Web server additional configuration

Objective: Configure a web server with virtual hosts, dynamic content, and authenticated directories.

Basic SMTP configuration

Objective: Configure an SMTP server for basic operation (null client, receiving mail, smarthost relay).

Caching-only DNS server

Objective: Understand DNS resource records and configure a caching-only name server.

File sharing with NFS

Objective: Configure file sharing between hosts with NFS.

File sharing with CIFS

Objective: Configure file and print sharing between hosts with CIFS.

File sharing with FTP

Objective: Configure file sharing with anonymous FTP.

Troubleshooting boot process

Objective: Understand the boot process and recover unbootable systems with rescue mode.

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