



REDHAT SYSTEM ADMINISTRATION - III

RH255 Syllabus

Advanced Skills for the Experienced Linux Administrator

Getting started with the classroom environment

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

Enhance user security

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

Bash scripting and tools

Automate system administration tasks using Bash scripts and text-based tools.

File security with GnuPG

Secure files with GnuPG.

Software management

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

Network monitoring

Profile running services, then capture and analyze network traffic.

Route network traffic

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

Secure network traffic

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

NTP server configuration

Configure an NTP server.



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File systems and logs

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

Centralized and secure storage

Access centralized storage (iSCSI) and encrypt file systems.

SSL-encapsulated web services

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

Web server additional configuration

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

Basic SMTP configuration

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

Caching-only DNS server

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

File sharing with NFS

Configure file sharing between hosts with NFS.

File sharing with CIFS

Configure file and print sharing between hosts with CIFS.

File sharing with FTP

Configure file sharing with anonymous FTP.

Troubleshooting boot process

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