

Red Hat Server Hardening Course Outline

1. Tracking Security Updates

- The Red Hat Security Response
- Red hat Severity Scoring
- What are CVEs and Red Hat Errata?
- Discuss Package Maintenance Through Backporting
- Engaging the Red Hat Security Response Team
- Unit Test

2. Managing Software Updates

- Develop an Update Process
- Applying Security Updates
- Validate Package Integrity and Scripts
- Unit Test

3. Creating File Systems

- Allocating File Systems for Secure Containment
- Implementing File System Encryption
- Unit Test

4. Managing File Systems

- Secure Filesystems Using Security-Related Mount Options
- Secure Individual Files with Filesystem Attributes

5. Managing Special Permissions

- Special Permissions Concepts
- Manipulating Special Permissions
- Auditing Special Permissions
- Unit Test

6. Managing Additional File Access Controls

- Setting Default File Permissions
- Managing Access Control Lists
- Unit Test

7. Monitoring for File System Changes

- Using Intrusion Detection Software to Monitor Changes
- Unit Test

8. Managing User Accounts

- Managing Password Aging
- Auditing User Accounts
- Unit Test

9. Managing Pluggable

Authentication Modules(PAM)

- PAM Syntax and Configuration
- PAM Documentation
- Configure Password Requirements through PAM
- Supplementary Pam Configuration

- Lock Accounts with Multiple Failed Logins
- Unit Test

10. Securing Console Access

- Securing GRUB Bootloader
- Modifying Text Console Settings
- Modifying Graphical CONSOL Settings
- Unit Test

11. Installing Central Authentication

- Installing an Identity Management(IdM) Server
- Adding User and Group Entries to Identity Management(Idm)
- Registering a Client System with Identity Management(Idm)
- Unit test

12. Managing Central Authentication

- Controlling idm user Access to systems
- Managing sudo on idm client systems
- Unit test

13. configuring rsyslog log file management

- Managing log file rotation
- Unit test

14. configuring system auditing

- configuring system auditing
- Audit reporting
- Writing custom audit rules
- Using predefined audit sets
- Unit test

15. configuring access to network services

- Review of iptables basics
- Advanced iptables
- Unit test

16. comprehensive review

- Unit test