

RHS429-Bundle: Red Hat Enterprise SELinux Policy Administration + EX429

Duration: 5 Days Course Code: RH430

Overview:

Security-enhanced Linux® (SELinux) is a powerful, kernel-level security layer that provides fine-grained control over which users and processes may access which resources and execute which programs on a system. Red Hat® Enterprise SELinux Policy Administration (RHS429) introduces senior system administrators, security administrators, and application programmers to SELinux policy writing. Students will learn how SELinux works and how to manage, write, compile, and debug an SELinux policy. This class culminates in a major project to analyze, determine the security needs of, and design and implement a set of net new policies for a service previously unprotected by SELinux. A Red Hat Certified Engineer (RHCE®) who successfully completes this course is prepared to take the Red Hat Enterprise SELinux Policy Administration Expertise Exam (EX429). Exam sold separately.

Target Audience:

Experienced Linux system administrators responsible for Mandatory Access Control-based (MAC) security, or who want to harden their existing Linux system or networked services security and RHCEs interested in earning a Red Hat Certificate of Expertise or a Red Hat Certified Security Specialist (RHCSS) certification.

Objectives:

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|-------------------------------|--------------------------|
| ■ Introduction to SELinux | ■ Policy utilities |
| ■ | ■ |
| ■ Using SELinux | ■ User and role security |
| ■ | ■ |
| ■ The Red Hat targeted policy | ■ Anatomy of a policy |
| ■ | ■ |
| ■ Introduction to policies | ■ Manipulating policies |
| ■ | |

Prerequisites:

- The essential elements of how to configure the services covered, as this course focuses on more advanced topics
- RHCE certification or equivalent experience

Testing and Certification

- Red Hat Enterprise SELinux Policy Administration Expertise Exam (EX429) Hands-on, performance-based, 4-hour exam with 2 sections.
- This course prepares you for these credentials:
- Certificates of Expertise
- Red Hat Certified Security Specialist — RHCSS

Follow-on-Courses:

- RHS333, Red Hat Enterprise Security Network Services
- RH423, Red Hat Enterprise Directory Services and Authentication

Content:

Introduction to SELinux

- Discretionary access control vs. mandatory access control
- SELinux history and architecture overview
- Elements of the SELinux security model: user identity and role; domain and type; sensitivity and categories; security context
- SELinux policy and Red Hat's targeted policy
- Configuring policy with booleans
- Archiving
- Setting and displaying extended attributes
- File contexts
- Relabeling files and file systems
- Mount options
- Apache security contexts and configuration booleans
- Name service contexts and configuration booleans
- NIS client contexts
- Other services
- File context for special directory trees
- Troubleshooting and avc denial messages
- SE troubleshooting and logging
- Compiling and loading the monolithic policy and policy modules
- Policy type enforcement module syntax
- Object classes
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- SELinux logs
- Security Identifiers - SIDs
- File system labeling behavior
- Context on network objects
- Creating and using new booleans
- Manipulating policy by example
- Macros
- Enableaudit
- Create file contexts, types, and typealiases
- Edit and create network contexts
- Edit and create domains
- SELinux history and architecture overview
- Elements of the SELinux security model:

Introduction to policies

- Policy overview and organization
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Manipulating policies

- Installing and compiling policies

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Policy utilities

- Tools available for manipulating and analyzing policies: apol, seaudit and seaudit_report, checkpolicy, sepcut, sesearch, sestatus, audit2allow and audit2why, sealert, avcstat, seinfo, semanage and semodule, Man pages

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