Oracle Solaris 11 Security Administration Ed 3

Duration: 5 Days

What you will learn

The Oracle Solaris 11 Security Administration course provides students with the knowledge and skills to customize security on the Oracle Solaris 11 operating system. Students will learn about new security features included in Oracle Solaris 11.3, and how to use these features to reduce the risk of intrusion, and secure both applications and data. This course will help students to effectively create a security plan as well as implement and monitor security on a Solaris 11 system.

Note: Students without Oracle Solaris 11 system administration experience should take the Oracle Solaris 11 System Administration and Oracle Solaris 11 Advanced System Administration course first to ensure an effective knowledge of Oracle Solaris 11 system administration before attempting to take this specialty course. Those with Oracle Solaris 10 experience should take the Transition to Oracle Solaris 11 course as it builds on your Oracle Solaris 10 knowledge and provides training more tailored to your background.

Learn To:

Describe important security principles and technologies.
Secure user rights, process rights, files and file system.
Implement cryptographic services, network security, zones security and labeled security.
Administer system security and services.
Monitor file integrity and security related system events.

Benefits To You

Better understanding over the Oracle Solaris 11.3 security administration and new enhancements done to the OS, which allow you to run your most demanding enterprise applications in private, hybrid, or public clouds.

Develop Oracle Solaris 11.3 OS Expertise
This course builds on the system administration skills taught in the Oracle Solaris 11.3 System Administration courses. You'll work with expert Oracle University instructors to develop a deep understanding of Oracle Solaris 11.3 security features that you can leverage in your day-to-day job.

Audience
Network Administrator
Security Administrators
System Administrator

Required Prerequisites

For beginners, please take all required prerequisite courses.

For experienced system administrators take Transition to Oracle Solaris.

Oracle Solaris 11 System Administration Ed 5

Oracle Solaris 11 Advanced System Administration Ed 5

Transition to Oracle Solaris 11 Ed 5

UNIX and Linux Essentials

Suggested Prerequisites
Shell Programming

Course Objectives
Secure users and processes

Manage SMF security behavior

Manage encryption and certificates

Manage auditing

Secure files and file system

Secure systems and attached devices

Manage authentication services

Secure the network

Secure Oracle Solaris Zones

Implement labeled security using Trusted Extensions

Plan for basic security

Identify Oracle Solaris 11 security technologies

Course Topics

Introduction
Overview
Course Goals

Course Agenda
Introductions
Your Learning Center
Your lab environment

Plan for basic security
Evaluate security principles
Analyze the need for a security policy
Configure systems securely
Perform a security audit
Evaluate the need for upgrading systems

Identify Oracle Solaris 11 Security Technologies
Describing Oracle Solaris 11 OS Security
Exploring Oracle Solaris 11 Security Features

Secure Users and Processes
Introducing user and process rights
Managing user rights
Managing process rights

Manage SMF Security Behavior
Describing SMF Configuration
Managing Services

Manage Encryption and Certificates
Describing Cryptographic Services
Implementing the Cryptographic Framework
Implementing Key Management Framework (KMF)

Manage Auditing
Describing Oracle Solaris Auditing
Configuring Oracle Solaris Auditing
Administering the audit service
Managing the audit records

Secure Files and File System
Managing ZFS File System Security
Verifying File Integrity
Controlling Access to Files

Secure Systems and Attached Devices
Protecting System integrity
Controlling System Access
Controlling Access to Devices
Assessing the Compliance of an Oracle Solaris System

Manage Authentication Services
Implement PAM to Authenticate Users
Implementing Kerberos Authentication Mechanism
Securing remotely accesses file systems

Secure the Network
Describe network security
Implementing Secure Shell
Implementing TCP Wrappers
Configuring Packet Filter to control network access
Configure IPsec and IKE

Secure Oracle Solaris Zones
Describing Zones Security
Integrating Security Features into Zones
Managing Resources in Zones
Managing Network Security in Zones

Implement Labeled Security Using Trusted Extensions
Describing labeled security
Managing Trusted Extensions