

Oracle Solaris 11 Security Administration

Course Summary

Length: 5 Days

Prerequisite:

Experienced Solaris 11 System and Security Administrators. Specifically, Students should have the following skills

- Completed the Advanced Solaris 11 System Administration course
- Understand how to install Solaris software packages and OS updates with IPS
- Understand how to administer user accounts
- Understand how to configure the network in Solaris 11
- Understand how to create ZFS storage pools and file systems
- Understand Solaris file permissions
- Understand how to configure and manage Solaris Zones

Course Description:

Students will learn about the security features in Solaris 11. Students will learn how to implement these features and technologies to reduce the risk of intrusion and to secure their system applications and data

Course Objectives:

- Describe Features in Solaris 11 to Secure the OS
- Understand Minimization
- Install Security Updates
- Configure Security Settings in the OS
- Disable Unneeded Services
- Harden Services
- Protection at the kernel level
- Secure Users
- Audit Significant Events
- Remove Unneeded Privileges
- Secure the Network
- Protect File Systems and Data
- Control /Restrict System Access
- Securing the Solaris OE using Zones
- Protect Resources Using Containers
- Build and Install a Golden Image using the Automated Installer (AI)

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Detailed Course Outline

Security Planning

- Evaluating security principles
- Develop a security policy
- Configuring secure systems
- Perform a security audit

Oracle Solaris 11 Security Technologies

- Introducing the Oracle Solaris 11 operating system
- Oracle Solaris 11 security

RBAC Roles, Rights, Profiles and Privileges

- Planning for RBAC
- Using RBAC
- Configure and manage privileges

Solaris Cryptographic Services

- Cryptographic services
- The Cryptographic Framework
- Key Management Framework

Auditing in Oracle Solaris 11

- Describe auditing
- The Basic Audit Reporting Tool (BART)
- Configure Auditing
- Administering the audit service
- Managing the audit records

Secure Files and File Systems

- Delegate and Manage ZFS Security
- Controlling Access to Files

Administer System Security

- Controlling Access to Systems
- Controlling Access to Devices
- Using PAM to Authenticate Users

Implement Basic Network Security

- Network security
- Secure Shell
- TCP Wrappers
- Kerberos protocol
- Using IPsec and IKE
- Securing remotely accessed file systems

Secure the Network with Packet Filtering

- IP Filter Implementation
- Configuring the IP rules set
- Configuring IP Filter

Control System Services

- Securing services through SMF
- Managing Services

Implement Security in Oracle Solaris Zones

- Securing the OS using Zones
- Security in Zones
- Integrating Security Features into Zones
- Managing Resources in Zones
- Managing Network Security in Zones
- Delegate Administrative privileges

Building a Secure System

- Building a custom distribution
- Installing a custom distribution Using AI