

Solaris 10 New Features for Experienced Solaris System Administrators (SA-225-S10)

The Solaris 10 Features for System Administrators course provides students with a look at some of the new functionality found in the Solaris 10 and Solaris 10 Update 1 Operating System (Solaris OS) regarding System Management, Dtrace, Network, and Installation features.

***THIS COURSE REPLACES SA-225-S10 Rev. B, "Solaris 10 New Features for Experienced Solaris System Administrators."**

***LAB INFORMATION:** The hands-on labs offered in this course may involve accessing equipment that resides at a location other than where the training is delivered.

Languages

English

Who Can Benefit

Students who can benefit from this course are experienced system administrators with direct experience in Solaris 8 and Solaris 9 Operating Systems.

Prerequisites

To succeed fully in this course, students should be able to administer the Solaris 9 OS.

Skills Gained

Upon completion of this course, students should be able to:

- Identify the new features of Solaris Zones
 - Identify changes to authentication features
 - Identify changes to file system features
 - Identify the new features of fault and service management
 - Describe DTrace fundamentals
 - Use DTrace
 - Identify changes to Internet Protocol (IP)
 - Describe Network File System (NFS) Version 4
 - Identify changes to security and other networking
 - Identify changes to installation
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Related Courses

Before:

- [Intermediate System Administration for the Solaris 9 Operating System \(SA-239\)](#)
- [Advanced System Administration for the Solaris 9 Operating System \(SA-299\)](#)
- [Network Administration for the Solaris 9 Operating System \(SA-399\)](#)

After:

- [Dynamic Performance Tuning and Troubleshooting With DTrace \(SA-327-S10\)](#)
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Course Content

Module 1 - Zones

- Identify the features of Solaris Zones
- Understand how and why zone partitioning is used
- Configure zones
- Boot zones
- Configure resource pools
- Configure the zone-wide resource controls
- Establish physical memory controls using the resource capping daemon

- Administer packages in zones
- Identify the features of Solaris Zones Interim Solution

Module 2 - Authentication Changes

- Identify changes to password checking
- Identify features of Least Privilege
- Identify changes to Kerberos

Module 3 - File System Features

- Identify changes to UFS

Module 4 - Fault and Service Management

- Identify features of the Fault Management Architecture (FMA)
- Identify features of the Service Management Facility (SMF)

Module 5 - Dtrace Fundamentals

- Describe the features of the Solaris Dynamic Tracing (DTrace) facility
- Describe the DTrace architecture
- List and enable probes, and create action statements and D scripts

Module 6 - Using Dtrace

- Describe the Dtrace performance monitoring capabilities
- Examine performance problems using the vminfo provider
- Examine performance problems using the sysinfo provider
- Examine performance problems using the io provider
- Using DTrace to obtain information about system calls
- Create D scripts that use arguments

Module 7 - Changes to Internet Protocol Features

- Understand the IP Quality of Service (IPQoS) feature
- Explain the FireEngine project's changes to the Solaris OS Transmission Control Protocol/Internet Protocol (TCP/IP) stack
- Explain the addition of TCP multi-data transmission (MDT)
- Explain other miscellaneous changes to IP

Module 8 - NFS Changes

- Describe NFS enhancements for Solaris 9 OS First Customer Ship (FCS) through Solaris 10 OS FCS

- Describe the enhancements to Network File System version 4 (NFS version 4)
- Describe NFS hardware and software requirements, dependencies, and limitations

Module 9 - Security Changes

- Explain the Solaris OS Cryptographic Framework (SCF)
- Understand the Hardware Accelerator for Internet Key Exchange (IKE)
- Explain and use the Solaris IP Filter firewall

Module 10 - Other Changes to Networking

- Describe and configure the System Management Agent (SMA)
- Describe changes to Dynamic Host Configuration Protocol (DHCP) commands
- Identify changes to routing sockets

Module 11 - Solaris 10 OS Installation

- Describe changes to the Solaris installation media
- Configure multiple network interfaces during installation
- Modify disk partition tables by using a Virtual Table of Contents (VTOC)
- Describe the support for Lightweight Directory Access Protocol (LDAP) version 2 profiles
- Describe changes to the Solaris JumpStart software and configure, enable, and troubleshoot Solaris JumpStart
- Describe changes to Flash archives
- Describe changes to the Solaris Live Upgrade boot environment and configure, enable, and troubleshoot the Live Upgrade boot capability
- Describe the WAN Boot utility and configure, enable, and troubleshoot the WAN Boot utility
- Describe package and patch web installation and configure, enable, and troubleshoot package and patch web installation
- Describe the installation license panel