

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

Course Description

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.

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



Related Courses

Before:

- Completed Solaris 8 or 9 System Administration & Networking Courses

Or

- Completed Solaris 10 System Administration & Networking Courses

After:

- Solaris 10 ZFS Administration (SA-229-S10)
- Personalizing Security on the Solaris 10 Operating System (SC-301-S10)
- Dynamic Performance Tuning and Troubleshooting With DTrace (SA-327-S10)

REGISTRATION AND INFORMATION

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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

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