

# System Administration for the Oracle Solaris 10 OS Part 2

**Length:** Five Days

**Summary:** The System Administration for the Oracle Solaris 10 Operating System, Part 2 course expands your mastery of the most advanced operating system on the planet: Oracle Solaris 10. This course provides students with hands-on experience working with more complex and integrated administration concepts, and builds upon the Part 1 course. Students will be instructed in essential system administration skills including: configuring network interfaces, managing swap configurations, crash dumps, and core files. The course also covers configuring NFS and AutoFS as well as system messaging, managing storage volumes and ZFS file systems, and setting up naming services and managing Solaris Zones. This course helps you to prepare for Part II of the Oracle Certified Professional: Oracle Solaris 10 System Administrator exam.

**Audience:** System Administrator

**Exam:** 1Z0-878

## Course Objectives:

- Managing Swap Configuration
- Managing core dumps
- Configuring NFS and AutoFS
- Describe RAID
- Work with ZFS
- Control access and configure system messaging
- Configuring Role-Based Access Control (RBAC)
- Describe LDAP
- Setup name services
- Configuring Name Service Clients
- Work with Zones
- Perform Live Upgrade and JumpStart Installation

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## Course Content

### Introduction

### Managing Swap Space, Core Files and Crash Dumps

- Configure swap space
- Manage crash dump behavior
- Manage core file behavior

### Configuring NFS

- Describe the benefits of NFS
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- Describe the fundamentals of the NFS distributed file system
- Manage an NFS server
- Manage an NFS client
- Enable the NFS server logging
- Manage NFS with the Solaris Management Console storage folder tools
- Troubleshoot NFS errors

### **Configuring AutoFS**

- Describe the fundamentals of the AutoFS file system
- Use automount maps

### **Describing RAID**

- Describe RAID

### **Configuring Solaris Volume Manager Software**

- Describe Solaris Volume Manager software concepts
- Build a RAID-0 (concatenated) volume
- Build a RAID-1 (mirror) volume for the root (/) file system

### **Configuring Role-Based Access Control (RBAC)**

- Describe RBAC fundamentals
- Describe component interaction within RBAC
- Manage RBAC

### **Configuring System Messaging**

- Describe the fundamentals of the syslog function
- Configure the /etc/syslog.conf file
- Configure syslog messaging
- Use the Solaris Management Console log viewer

### **Using Name Services**

- Describe the name service concept
- Describe the name service switch file /etc/nsswitch.conf
- Describe the name service cache daemon (nscd)
- Get name service information

### **Configuring Name Service Clients**

- Configure a DNS client
- Configure an LDAP client

### **Introduction to Zones**

- Identify the different zones features
- Understand how and why zone partitioning is used
- Install, configure, and boot zones
- Move, migrate, and delete a zone
- Administer packages with zones
- Use 1x Branded Zones

### **Introduction to LDAP**

- Understand the use of LDAP as a naming service
- Describe basic LDAP concepts and terminology
- Identify the Directory Server Enterprise Edition requirements
- Identify Solaris LDAP Client requirements

### **Configuring JumpStart Installation Using the Solaris 10 Operating System**

- Describe the JumpStart configurations
  - Implement a basic JumpStart server for SPARC® and x86/x64 clients
  - Describe booting x86/x64 systems using the Preboot Execution Environment (PXE)
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- Set up a DHCP server to support x86/x64 JumpStart clients
- Set up JumpStart software configuration alternatives
- Set up JumpStart to create a ZFS mirrored root pool
- Troubleshoot JumpStart configurations

### **Performing Live Upgrade Using the Solaris 10 Operating System**

- Describe the benefits of using Live Upgrade
  - Describe the Solaris Live Upgrade requirements, commands, and process
  - Create an alternate boot environment cloned from a running system
  - Create a differential flash archive in a Live Upgrade boot environment
  - Modify the state of the new boot environment
  - Using JumpStart to implement a Live Upgrade environment
  - Use Live Upgrade to patch a system
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