

Course Outline: System Administration for the Solaris 10 Operating System, Part 2

Learning Method: Instructor-led Classroom Learning

Duration: 5.00 Day(s)/ 40 hr

Overview:

The System Administration for the Solaris 10 Operating System, Part 2 course expands your mastery of the most advanced operating system on the planet: 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 Sun System Administration certification exam.

At Course Completion:

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

- Describe network interface configuration
- Describe Sun Connection services
- Manage swap configurations
- Manage core dumps
- Configure NFS and AutoFS
- Manage storage volumes
- Work with ZFS
- Control access and configure system messaging
- Configure role-based access control (RBAC)
- Set up name services

Phone: +357 70002770
www.computrain.com.cy



Outline:

Module 1 – Describing Interface Configuration

- Control and monitor network interfaces
- Configure Internet Protocol Version 4 (IPv4) interfaces at boot time

Module 2 – Describing the Client-Server Model

- Describe client-server processes
- Start server processes

Module 3 – Introducing Sun Connection Services

- Describe signed packages and patches
- Introduce Sun Connection
- Describe Sun Connection modes
- Using Update Manager
- Installing updates with Update Manager
- Administering patches from the command line

Module 4 – Managing Swap Configuration

- Describe virtual memory
- Configure swap space

Module 5 – Managing Crash Dumps and Core Files

- Manage crash dump behavior
- Manage core file behavior

Module 6 – Configuring NFS

- Describe the benefits of NFS
- 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

Module 7 – Configuring AutoFS

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

Phone: +357 70002770
www.computrain.com.cy



Module 8 – Describing RAID and the Solaris Volume Manager Software

- Describe RAID
- Describe Solaris Volume Manager software concepts

Module 9 – 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

Module 10 – Configuring Role-Based Access Control (RBAC)

- Describe RBAC fundamentals
- Describe component interaction within RBAC
- Manage RBAC by using the Solaris Management Console
- Manage RBAC by using the command line

Module 11 – 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

Module 12 – 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

Module 13 – Configuring Name Service Clients

- Configure a DNS client
- Configure an LDAP client

Module 14 – Configuring the Network Information Service (NIS)

- Describe NIS fundamentals
- Configure the name service switch file
- Describe NIS security
- Configure an NIS domain
- Build custom NIS maps
- Troubleshoot NIS

Module 15 – Introduction to Zones

- Identify the different zones features
- Understand how and why zone partitioning is used

Phone: +357 70002770
www.computrain.com.cy



- Configure zones
- Install zones
- Boot zones

Module 16 – Introduction to the ZFS File System

- Describe ZFS and its related terms
- Understand components of a storage pool
- Create and destroy storage pools
- Query storage pool status
- Create and destroy ZFS file systems
- Manage ZFS properties
- Mount and unmount ZFS file systems
- Work with snapshots and clones
- Use ZFS datasets with Solaris zones

Phone: +357 70002770
www.computrain.com.cy

