

Network Administration for the Solaris 10 Operating System (SA-300-S10)

Product Description

[Product Outline/Details](#)

The Network Administration for the Solaris 10 Operating System (Solaris OS) course provides students with the knowledge and skills necessary to perform network administration tasks, such as configuration and troubleshooting of a local area network (LAN). This course also provides hands-on experience with topics, such as Internet Protocol (IP) routing, Domain Name System (DNS), Dynamic Host Configuration Protocol (DHCP) and IP version 6 (IPv6) and Solaris IP Filter.

<i>Product ID:</i> SA-300-S10	<i>Duration:</i> 5 days	<i>Price:</i> \$3000.00
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Prerequisites

To succeed fully in this course, students should be able to:

- Install, configure, and maintain a Solaris OS product line server
- Change system run levels
- Read and edit system resource files

Skills Gained

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

- Configure routing and routing tables
- Configure subnet masks, including variable length masks
- Configure DHCP clients and servers
- Configure DNS
- Configure a Network Time Protocol (NTP) server and client
- Configure a system as an IPv6 host or router
- Configure IPv6-over-IPv4 tunnels
- Troubleshoot network problems

Course Content

Module 1 - Introducing the TCP/IP Model

- Describe network model fundamentals
- Describe the layers of the TCP/IP model
- Describe basic peer-to-peer communication and related protocols

Module 2 - Introducing LANs and Their Components

- Describe network topologies
- Describe LAN media
- Describe network devices

Module 3 - Describing Ethernet Interfaces

- Describe Ethernet concepts
- Describe Ethernet frames
- Use network utilities

Module 4 - Describing ARP and RARP

- Describe ARP
- Describe RARP

Module 5 - Configuring IP

- Describe the Internet layer protocols
- Describe the IP datagram
- Describe IP address types
- Describe subnetting and VLSMs
- Describe the interface configuration files
- Administer logical interfaces

Module 6 - Configuring IP Multipathing

- Describe IP multipathing
- Implement IP multipathing

Module 7 - Configuring Routing

- Identify the fundamentals of routing
- Describe route table population
- Describe routing protocol types
- Describe the route table
- Configure static routing
- Configure dynamic routing
- Describe classless inter-domain routing (CIDR)
- Configure boot time routing
- Troubleshoot routing

Module 8 - Configuring IPv6

- Describe IPv6
- Describe IPv6 addressing
- Describe IPv6 autoconfiguration
- Describe IPv6 unicast address types
- Describe IPv6 multicast address types
- Enable IPv6
- Manage IPv6
- Configure IPv6 multipathing
- Configure 6to4 routing

Module 9 - Describing the Transport Layer

- Describe Transport layer fundamentals
- Describe UDP
- Describe TCP
- Describe TCP flow control

Module 10 - Configuring DNS

- Describe the DNS basics
- Configure the DNS server
- Troubleshoot the DNS server using basic utilities

Module 11 - Configuring DHCP

- Describe the fundamentals of DHCP
- Configure a DHCP server
- Configure and manage DHCP clients

Module 12 - Configuring NTP

- Identify NTP basics
- Configure an NTP server
- Configure an NTP client
- Troubleshoot NTP

Module 13 – Configure Solaris IP Filter

- Describe basic firewalling
- Configure and manage a Solaris IP Filter firewall