

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

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

Content Introducing the TCP/IP Model

- Describe network model fundamentals
- Describe the layers of the Transmission Control Protocol/IP (TCP/IP) model
- Describe basic peer-to-peer communication and related protocols
- Identify TCP/IP protocols

Introducing LANs and Their Components

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

Describing Ethernet Interfaces

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

Describing ARP and RARP

- Describe Address Resolution Protocol (ARP)
- Describe Reverse ARP (RARP)

Configuring IP

- Describe the Internet layer protocols
- Describe the IP datagram
- Describe IP address types
- Describe subnetting and variable length subnet masks (VLSMs)
- Describe the interface configuration files
- Administer logical interfaces

Configuring IP Network Multipathing

- Describe IP multipathing
- Implement IP multipathing

Configuring Routing

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

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 6to4 routing
- Configure IPv6 multipathing

Describing the Transport Layer

- Describe Transport layer fundamentals
- Describe User Datagram Protocol (UDP)
- Describe TCP
- Describe TCP flow control

Configuring DNS

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

Configuring DHCP

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

- Troubleshoot a DHCP server
- Troubleshoot a DHCP client

Configuring NTP

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

Configuring the Solaris IP Filter Firewall

- Identify Solaris IP Filter firewall basics
- Configure Solaris IP Filter firewall