

Szkolenie: HPE
HP-UX System and Network Administration II



Cel szkolenia:

This course is the second of two courses that prepare system administrators to successfully administer HP-UX servers in a networked environment. Successful completion of HP-UX System and Network Administration I and II will help students prepare for the HP-UX Certified System Administrator (CSA) technical certification exam. The 5-day course is 50 percent lecture and 50 percent hands-on labs using HPE servers.

At the conclusion of this course, you should be able to:

- Configure HP-UX TCP/IP connectivity
- Configure HP-UX static and default routes
- Configure custom HP-UX startup and shutdown scripts
- Configure NFS and AutoFS servers and clients
- Configure DNS servers and resolver clients
- Configure telnet, ftp, remsh, rlogin, bootp, tftp, and other inetd services
- Configure NTP, SSH, and LDAP servers and clients
- Configure an SD-UX depot server

Audience

- System and network administrators who maintain and configure system resources, control access to resources, and establish procedures

Plan szkolenia:

- LAN Concepts
 - Media Access Control (MAC) addresses
 - IP addresses and network classes
 - Host names
 - Converting IP addresses to MAC addresses
 - Populating the Address Resolution Protocol (ARP) cache
 - Managing packet flow with Transmission Control Protocol (TCP) and User Datagram Protocol (UDP)

- Sending data to applications via ports
- Managing ports with sockets
- LAN Hardware Concepts
 - LAN hardware components, topologies, and access methods
 - Single- and multi-port network interface cards
 - Repeaters and hubs
 - Bridges and switches
 - Routers, gateways, and firewalls
- Configuring LAN Connectivity
 - Installing and verifying LAN software
 - Installing and verifying LAN interface cards
 - Configuring link layer and IP connectivity
 - Configuring IP multiplexing
 - Configuring the system hostname and /etc/hosts
 - Configuring network tunable parameters
- Configuring IP Routing
 - Routing concepts and tables
 - Viewing routing tables
 - Configuring static and default routes
 - Configuring the /etc/rc.config.d/netconf file
- Configuring Subnetting
 - IP addresses and netmasks in a subnetted network
 - Host IP addresses on a subnet
 - Routers in a subnetted network
- Troubleshooting Network Connectivity
 - Network troubleshooting tools overview
 - Troubleshooting network connectivity via nwmgr, lanscan, linkloop, and lanadmin
 - Troubleshooting network connectivity via arp, ping, netstat, and nsquery
- Starting Network Services
 - Configuring network services via /etc/rc.config.d/ files
 - Controlling network services via /sbin/rc*.d/ directories and scripts
 - Starting and stopping network services via /sbin/init.d/ scripts
 - Creating custom startup/shutdown scripts
- Configuring Network File Systems (NFS)
 - NFS concepts and versions
 - NFS servers and clients

- NFS RPCs, program numbers, and rpcbind
- NFS stateless operation and security concepts
- NFS authentication and encryption concepts
- Planning an NFS configuration
- Selecting an NFS protocol
- Maintaining UID, GID, and time consistency
- Configuring and starting NFS server daemons
- Temporarily and permanently sharing file systems
- Verifying NFS server configuration
- Configuring and starting NFS client daemons
- Temporarily and permanently mounting NFS file systems
- Verifying NFS client configuration
- Troubleshooting NFS
- NFS vs. CIFS features and benefits
- Configuring AutoFS
 - AutoFS concepts and maps
 - AutoFS commands and daemons
 - Configuring the AutoFS master and hosts maps
 - Configuring the AutoFS direct and indirect maps
 - Mounting home directories with AutoFS
 - Configuring AutoFS to access replicated servers
 - Troubleshooting AutoFS
- Configuring Domain Name Service (DNS)
 - DNS concepts and hierarchical name space
 - DNS name servers and name server zones
 - Configuring DNS master, slave, and cache-only servers
 - Testing name servers with dig
 - Configuring DNS clients and the `/etc/nsswitch.conf` file
 - Testing resolver clients with nsquery
 - `/etc/named.data` and `/etc/named.conf`
 - Updating DNS master and slave servers
- Configuring inetd Services
 - inetd service overview
 - Configuring `/etc/rc.config.d/netdaemons`
 - Configuring `/etc/inetd.conf` and `/etc/services`
 - Configuring `/var/adm/inetd.sec`

- Configuring /etc/hosts.equiv and ~/.rhosts
- FTP configuration issues
- Configuring Secure Shell (SSH)
 - Network service vulnerabilities
 - SSH encryption, server, and client/user authentication and configuration
 - SSH single sign-on
 - Configuring SSH single sign-on
 - Using UNIX® and PuTTY SSH clients
- Configuring Network Time Protocol (NTP)
 - Introduction to NTP
 - NTP time sources, stratum levels, and roles
 - How NTP adjusts the system clock
 - Configuring NTP servers and clients and verifying NTP functionality
- Managing Depots with SD-UX
 - SD-UX depot server concepts and advantages
 - Planning for depots
 - Adding software and patches to a depot
 - Removing software from a depot
 - Registering or unregistering a depot
 - Pulling and pushing software from a depot
- Configuring LDAP-UX
 - LDAP concepts
 - Schema, object classes, attributes, and directory entries
 - Directory Information Trees (DITs), DNs, RDNs, and LDIF files
 - Servers, replicas, and LDAP clients
 - Referrals and security
 - LDAP software solutions for HP-UX
 - Installing and verifying an HPE directory server
 - Installing and using a basic LDAP-UX client
 - Configuring /etc/nsswitch.conf and /etc/pam.conf
 - Managing passwords and directory entries

Wymagania:

HP-UX System and Network Administration I (H3064S) or equivalent experience

Poziom trudności



Certyfikaty:

After completing the course, participants receive a certificate of completion of an authorized Veem course. Completion of this course satisfies the prerequisite for taking the HPE0-A01 (previously HPE0-095) HP-UX CSA and HP-UX Logical Volume Manager (H6285S) or HP-UX VERITAS Volume Manager (HB505S) certification exam.

Prowadzący:

Authorized Veem Trainer.