



HP Education Services

Accelerated linux administration for experienced HP-UX or Sun Solaris administrators

This 5-day course covers topics of interest to experienced HP-UX or Sun Solaris system administrators wishing to develop an understanding of the skills required to administer Red Hat or SUSE Linux based systems in their enterprise computing environments. Upon completion of this course the student should be able to successfully install, configure, and bring online a Linux system. This course should also help prepare the student for Linux certification exams such as the LPI 101/102 required for Linux Professional Institute Level One Certification or other Linux certifications.

Audience

- The student should be an HP Certified System Administrator in HP-UX System Administration or have equivalent work experience. The course is also appropriate for experienced Sun Solaris system administrators.

Prerequisites

- HP Certified System Administrator in HP-UX System Administration or equivalent workplace experience in current UNIX system administration techniques

Course objectives

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

- Use the Management Processor for troubleshooting
- Troubleshoot EFI problems
- Recover a non-bootable HP Integrity system or partition
- Troubleshoot an 11i v3 kernel, system startup, and kernel crash dump
- Troubleshoot process, login, patch, and storage problems
- Troubleshoot LVM, VxVM, and VxFS problems
- Troubleshoot network problems

Benefits to you

- Learn the Linux approach to system administration tasks
- Gain an understanding of the Linux user interfaces, file systems and run states
- Acquire the techniques for recovering an unbootable system
- Gain knowledge of Linux disk space management options
- Effectively manage software packages
- Efficiently use networking services and security options

Course title:	Accelerated linux administration for experienced HP-UX or Sun Solaris administrators
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HP product number:	U2794S
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Category/Subcategory:	HP-UX / UNIX
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Course length:	5 days
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Level:	Advanced
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Delivery language:	English
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To order:	You can register your interest for this course online at http://www.hp.com.au/education . At the site, select the course under Unix / Linux portfolio and you will see dates for the course. Register your interest for the date of your choice.
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Why education services from HP?

- Recognized as an IDC MarketScape leader for IT education (IDC MarketScape: Worldwide IT Education and Training 2012 Vendor Analysis, doc #232870, February 2012)
- Unmatched technical expertise and support for HP products and technologies
- More than 30 years of Education Consulting
- Global training with more than 90 training locations worldwide

Detailed course outline

Linux Installation

- Install and configure various Linux systems, partitioning and create a boot disk.

Post-Install System Configuration

- Configuration utilities, RPM and printers.

Boot Process and System V Init

- Booting Linux on PCs, kernel boot and init files.
- Managing startup services and daemons
- Shutdown and reboot.

User/Group Administration and NFS

- Discuss the concepts of the X Window System.
- Modifying accounts and password ageing. PAM services.
- NFS server configuration and clients.

File System Administration

- Partition tables, file system creation and management.
- Swap, disk quotas and ACLs.
- Backup software and tape libraries.

LVM and RAID

- Logical Volume Management.
- Implementing and manipulating LVM.
- RAID usage.

Task Automation and Process Accounting

- Automating tasks and managing processes.
- Log file management and process accounting.
- Limiting system resources.

Client Networking

- Network interfaces, routing tables, virtual IP, DNS clients and DHCP
- Red Hat configuration tools and network diagnostics.

The X Window System

- Xfree86 and configuring X.
- X Fonts and display manager selection.
- XDMCP and specialized X servers.

Security Concepts

- Tightening default security and using up2date utility.
- Security advisories and Xinetd.
- Basic firewall activation and iptables

Linux Kernel Compilation

- Getting kernel source and configuring the kernel.
- General options, hardware configuration, kernel extensions and documentation.
- Compiling, install modules, tips & tricks.

DNS Concepts

- Naming services, DNS and zones.
- Resolving names and BIND administration.
- Configuring the resolver and testing.

Configuring BIND

- BIND configuration files and named.conf.
- Creating a site-wide cache and zone database.
- SQA, NS and CNAME. Abbreviations and shortcuts.

OpenLDAP Servers

- OpenLDAP components and configuring SLAPD.
- Global parameters and schema definition.
- Access control and backend configuration.
- Indexes and replicas.

Using OpenLDAP

- Managing SLAPD, querying the database and LDAP client configuration.

Using Apache

- Apache history, architecture, configuration files, shared objects.
- Apache logging and Webalizer.

Virtual Hosting with Apache

- HTTP virtual servers
- DNS and security implications.
- IP, Name and port based virtual hosts.

Apache Security

- Delegating administration.
- Directory protection and SSL.

Implementing an FTP Server

- WU-FTPD and configuring vsftpd.
- Anonymous FTP.

The SQUID Proxy Server

- SQUID overview and file layout.
- Access control lists, applications and tuning.
- Bandwidth metering, monitoring SQUID and proxy client configuration

Samba Concepts

- SMB network protocol, NetBIOS and NetBEUI.
- Introducing Samba, daemons, clients and utilities.
- Samba configuration files.

Using Samba

- UNIX and DOS permissions, name and case management.
- Sharing homes, printers and restricting access.
- SMB and passwords, smbpasswd database and user share restrictions.

Sendmail

- Sendmail features, process, architecture and components.
- Configuration files, databases and text files.
- Network, controlling access and configuring SMTP AUTH, SMTP STARTTLS.

Postfix

- Postfix features, architecture, components and configuration.
- Postfix map types, pattern matching and advanced options.
- Virtual domains, mail filtering, configuration and management commands, logging, server/client configuration, TLS.

IMAP, POP, spam Filtering and Web Mail

- Filtering email, procmail, SpamAssassin and accessing email.
- Pop3 and IMAP4 protocols and servers.
- Fetchmail and SquirrelMail.

Troubleshooting

- Common problems, file permissions, inability to boot and corrupt file systems.
- Disks full, runaway processes, virtual memory and the rescue environment..

Using NIS

- NIS history, architecture, limitations and implementation.
- NIS master server and client configuration.
- Slave server configuration and troubleshooting aids.

For more information

To locate contact information and to learn more about education services, please visit our web site at

<http://www.hp.com.au/education> .

