Hewlett Packard Enterprise

Open System Services (OSS) Basic Commands and Utilities for HPE NonStop Servers U5516S

HPE course number	U5516S
Course length	2 days
Delivery mode	ILT/VILT
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Why HPE Education Services?

- IDC MarketScape leader 4 years running for IT education and training*

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Open System Services (OSS) is an open computing interface to the HPE NonStop Kernel operating system and is based on POSIX standards. This course is intended for OSS application developers who will be creating or porting applications to the OSS environment on a NonStop server. New OSS users are introduced to OSS basic commands, editors, and utilities in the NonStop Kernel OSS environment. This course is 60 percent lecture and 40 percent hands-on labs using HPE servers.

Audience

- Application developers

- System analysts

- Support personnel

Prerequisites

- Six months computer systems experience

Course objectives

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

- Navigate the OSS directory structure

- Display the contents of a file and a directory

- Create aliases

- Set and change file and directory permissions

- Change user and group IDs

- Set the sticky bit

- Perform specific vi commands

- Configure a user profile

- Manipulate environment variables and background jobs

- Stop an OSS process

- Time start an application

Benefits to you

- Become familiar with the Open System Services (OSS) environment

- Gain valuable hands-on experience needed to easily control your OSS environment

*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, January 2016

Detailed course outline

Module 1: Introduction to OSS	
	• UNIX® operating systems
	• Linux operating systems
	• Characteristics of open systems
	• Common shells
	• OSS standards and components
	• Accessing the shell
	• How to display system information
	• Online documentation
	• Lab exercise: introduction to OSS
Module 2: Basic Shell Commands	• OSS shell and utilities overview
	• Entering commands and syntax
	• OSS shell features
	• Displaying user information
	• OSS file system and hierarchy
	• File system terminology
	• Common directories
	• OSS pathnames and file types
	• Creating an alias
	• Lab exercise: basic shell commands
Module 3: Securing Files	• OSS security
	• Permission modes and defaults
	• Setting and changing permissions
	• File–creation mask
	• File and directory access
	• Set–user and set–group IDs
	• Restricting file removal
	• Lab exercise: permissions
Module 4: Using the vi Screen Editor	• OSS terminal requirements
	• vi terminal settings
	• vi modes and options
	• Using the vi editor
	• vi editor commands
	• vi session options
	• Lab exercise: using the vi screen editor
Module 5: Configuring the User Environment	• Configuring a profile
	• Shell environment variables
	• Setting the PATH environment variable
	• Setting terminal attributes
	• Configuring the message of the day
	• Command-line recall and editing
	• Set shell options
	• Default input and output files
	• Redirection
	• Pipes and processes
	• Spooling and printing
	• Search order
	• Lab exercise: configuring the user environment

Module 6: Additional Commands and Utilities	• Finding data in a file
	• grep and awk commands
	• Customizing outputs
	• Counting lines, characters, and spaces
	• Sorting, finding, and linking files
	• Additional utilities
	• Process options
	• Running background processes
	• Manipulating background jobs
	• Stopping processes
	• Time starting an application
	• Lab exercise: advanced commands and utilities
Module 7: File-Sharing Groups	• User and Group Ids
	• newgrp command
	• Defining groups
	• Adding group members
	• Setting primary-group
	• Lab exercise: File-sharing groups
Onsite Delivery Equipment Requirements	• Access to a NonStop server with OSS installed
	• OSS configured with sufficient logon IDs for students
	• Access to HPE NonStop technical Library

Next steps

• Open System Services (OSS) Advanced
Commands and Utilities (U5517S)

Learn more at
hpe.com/ww/learnnonstop

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