

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

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.

Why HPE Education Services?

HPF course number

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Course length

Delivery mode

U5516S

2 days

ILT/VILT

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- IDC MarketScape leader 4 years running for IT education and training*
- Recognized by IDC for leading with global coverage, unmatched technical expertise, and targeted education consulting services*
- Key partnerships with industry leaders
 OpenStack®, VMware®, Linux®, Microsoft®,
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- Simplified purchase option with HPE Training Credits

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

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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
Modulo 7: Socuring Files	
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
	. 5. 5

Course data sheet

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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