

HP Education Services

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



Open System Services (OSS) is an open computing interface to the HP 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 2-day course is 60 percent lecture and 40 percent hands-on labs using HP servers.

Audience

- Application developers
- System analysts
- Support personnel

Prerequisites

- Six months computer systems experience

Course Objective

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
- Perform error tracing

Benefits to You

- Become familiar with the Open System Services (OSS) environment
- Gain valuable hands-on experience needed to easily control your OSS environment

Why education services from HP?

- Focus on job-specific skills
- Hands-on practice
- Experienced and best-in-the-field HP instructors
- Comprehensive student materials
- More than 80 training locations worldwide
- Customized on-site delivery

Course Title: Open System Services (OSS) Basic Commands and Utilities for NonStop Servers

HP Product Number: U5516S

Category/Subcategory: System Operations and Management

Course Length: 2 days

Level: Basic

Delivery Language: English

To Order: To review course schedules and to register for a course, visit www.hp.com/learn/nonstop and select your country from the drop down menu, or, contact your HP sales representative or HP authorized channel partner.

Next Steps: Open System Services (OSS) Advanced Commands and Utilities (U5517S)

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 - Advanced Commands and Utilities

- Finding data in a file
- grep command
- 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 - Command Scripting

- Comments and metacharacters
- Shell scripts
- Variables
- Control structures
- test command
- expr and read commands
- Arguments
- Error tracing
- Miscellaneous statements
- Arithmetic on shell variables
- let and select commands
- Functions and function management
- Lab exercise: command scripting

Onsite Delivery Equipment Requirements

- Access to a NonStop server with OSS installed
- OSS configured with sufficient logon IDs for students
- Individual PCs with Internet access along with Windows and Visual Inspect installed on them

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