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CS500-# Introduction To Solaris 8/9 Operating Environment

- CS500-8 Solaris 8
- CS500-9 Solaris 9

Length: 5 Days

Description

This course introduces attendees to the Solaris Operating Environment and provides the initial knowledge and hands-on experience to get them started using Solaris quickly and efficiently. Subjects covered include an overview of operating system concepts and the Solaris architecture, how to log on and off, Solaris system documentation, communications and status inquiry commands, the structure of the Solaris file system, file and directory manipulation commands, how to use the vi (visual) text editor, the use of the shell as a command interpreter and programming language, and the use of sample commands for data manipulation.

Course Objectives

Upon completion of this course the attendee will be able to:

1. state the major components and architecture of UNIX;
2. state the major components and architecture of Solaris;
3. log on and off of Solaris;
4. use the Solaris system documentation;
5. communicate with other users on the system through mail and write;
6. organize and manipulate files and directories and their contents;
7. use the Solaris text editor to create and modify files;
8. use the Solaris shell file name expansion, I/O redirection, pipe, and quoting mechanisms;
9. use Solaris utilities to create simple tools for information processing.

Prerequisites: None

Course Content

Unit 1 - Solaris Operating Environment Overview

1. Introduction
2. Operating System Overview
3. Operating System Development
4. What is UNIX?
5. UNIX Development History
6. Unix Features
7. Unix Architecture
8. Unit Review

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Unit 2 - Using Solaris

1. Introduction
2. The Unix Network Environment
3. Logging In to A Solaris Workstation
4. Logging In to A Solaris Server
5. The Common Desktop Environment
 - A The Taskbar
 - B The Workspace Menu
 - C Starting A Terminal Window
6. Logging Off
7. Connecting to the Server from NetTerm
8. Logging Off
9. The Shell
 - A Keyboard Usage
 - B Shell Prompts
10. Solaris Resources
11. Solaris Reference Manual
12. The man Command
 - A Keyword Searches
 - B Keyword Searches - The whatis Command
13. Executing Simple Commands
14. Entering Commands with Arguments
15. Types of Commands
16. Passwords
 - A Changing Your Password
17. User and Group ID
18. Processes
 - A Checking System Processes
19. Solaris Communication
 - A The /etc/issue File
 - B Message of the Day
 - C wall - Write to All Users
 - D The talk Command
 - E Electronic Mail
 - F Reading Mail
20. Unit Review

Unit 3 - The Solaris Filesystem

1. Introduction
2. Types of Files
3. Filesystems
4. Filesystem Structure
5. File and Directory Naming
6. Filesystem Organization
7. Pathnames
8. Current Directory
9. Linked Files
10. Listing Files and Directories

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11. File and Directory Attributes
 - A File and Directory Access Permissions
 - B Changing File Access Permissions
12. Moving Around the Filesystem
13. Directory Commands
14. Maintaining an Orderly Directory Structure
15. File Manipulation Commands
 - A Copying Files - cp
 - B Moving Files - mv
 - C Linking Files - ln
 - D Removing Files - rm
16. The umask Command
17. Changing File Ownership
18. Changing File Group Ownership
19. Changing File Timestamps
20. Displaying and Printing Files
21. Unit Review

Unit 4 - Solaris Text Editing

1. Introduction
2. Types of Editors
3. Editing Concepts
4. Getting Started with vi
5. Editing Modes
6. Saving Text and Exiting vi
7. Moving Around in vi
8. Creating New Text
9. Line Substitutions
10. vi Shortcuts
11. Editor Options
12. Shell Interface and Filtering
13. Unit Review

Unit 5 - The Shell

1. Introduction
2. Types of Shells
3. Shell Documentation
4. Shell Functions
5. Command Interpretation
6. The echo Command
7. Filename Generation
8. Shell Variables
9. Setting Variables
10. Quoting
11. I/O Redirection
12. Pipes
13. Establishing the User Environment
14. Background Processing

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15. Jobs
16. Command Line Editing
17. The nohup Command
18. Shell Programs
 - A Creating a Shell Program
 - B Executing a Shell Program
19. Unit Review

Unit 6 - Solaris Utilities

1. Introduction
2. Regular Expressions
3. File Manipulation Commands
4. Data Manipulation Commands
5. File Information Commands
6. File Comparison Commands
7. Unit Review

Appendix A: Answers to Exercises

Appendix B: Answers to Review Questions

Appendix C: vi Command Reference