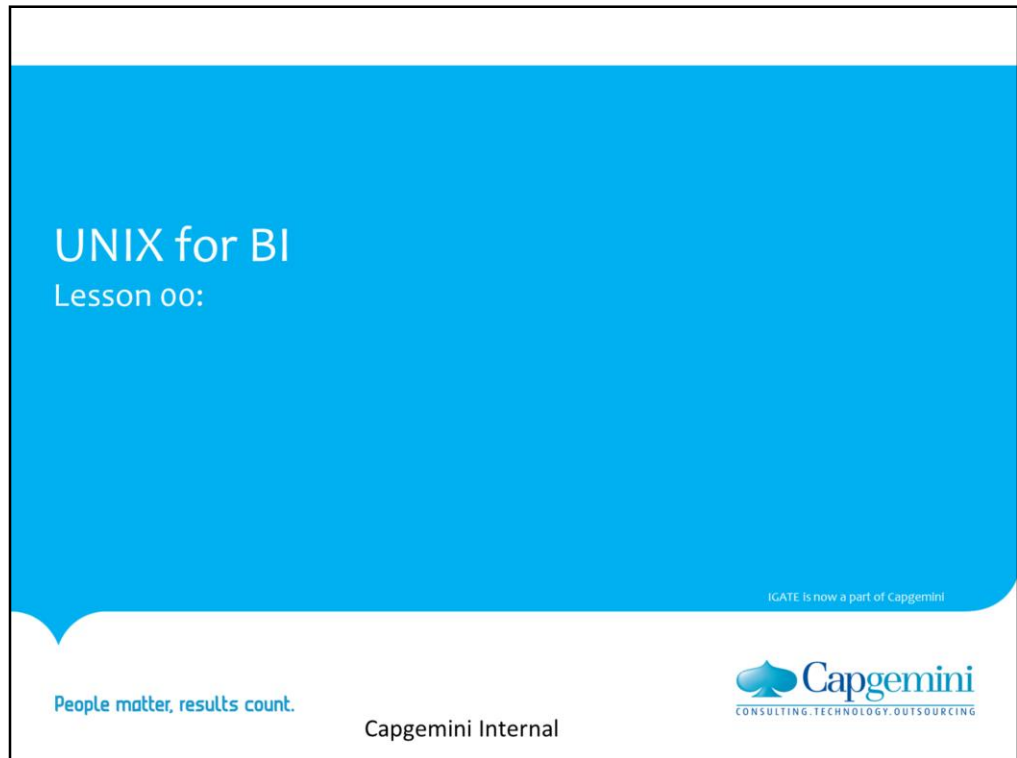


Instructor Notes:



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Instructor Notes:

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Course Goals and Non Goals

➤ Course Goals

- To understand UNIX operating system, Shell commands, Introduction to Processes, Writing simple shell scripts

➤ Course Non Goals

- NA



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Pre-requisites

- None

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Intended Audience

➤ Novice Users




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Day Wise Schedule

➤ **Day 1**

Lesson 1: Introduction to UNIX and Basic UNIX commands
Lesson 2: UNIX file system
Lesson 3: Filters

➤ **Day 2:**

Lesson 3: Filters (contd..)
Lesson 4: Introduction to Bourne Shell
Lesson 5: Vi Editor

➤ **Day 3:**

Lesson 6: Processes and related commands
Lesson 7: AWK
Lesson 8: Shell Programming

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Day Wise Schedule

- **Day 4 (Half Day):**
Lesson 8: Shell Programming (Continue)

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Table of Contents

- **Lesson 1: Introduction to UNIX Operating System and Basic UNIX commands**
 - 1.1: Operating System
 - 1.2: Basic UNIX Commands
- **Lesson 2: UNIX File System**
 - 2.1: File System
 - 2.2: File Types
 - 2.3: File Permissions
 - 2.4: File Related Commands
- **Lesson 3 : Filters**
 - 3.1: Simple Filters
 - 3.2: Advanced Filters

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Table of Contents

➤ **Lesson 4: Introduction to Bourne Shell**

- 4.1: Shell types
- 4.2: Working of shell
- 4.3: Metacharacter
- 4.4: Shell redirections
- 4.5: Command substitution

➤ **Lesson 5: Vi Editor**

- 5.1: Vi Editor
- 5.2: Input Mode Commands
- 5.3: Vi Editor – Save & Quit
- 5.4: Cursor Movement Commands
- 5.5: Paging Functions
- 5.6: Search and Repeat Commands
- 5.7: Vi Editor – Other Features
- 5.8: SED – Introduction to SED
- 5.9: SED Commands

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➤ **Lesson 6: Processes and related commands**

- 6.1: Process
- 6.2: Parent and Child Processes
- 6.3: Running a Command
- 6.4: ps Command
- 6.5: Jobs in the Background
- 6.6: Process related commands
- 6.7: Overview of Process Scheduling
- 6.8: Lowering job execution priority – nice command
- 6.9: Process related commands

➤ **Lesson 7: AWK Programming**

- 7.1: Advanced Filter - awk
- 7.2: AWK variables
- 7.3: AWK
- 7.4: Logical and Relational operators
- 7.5: Advanced Filter - awk
- 7.6: Number Processing

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- **Lesson 7 :AWK Programming (contd..)**
 - 7.7: awk Command
 - 7.8: BEGIN and END
 - 7.9: Positional parameters and shell variable
 - 7.10: Built in functions - numeric
 - 7.11: If construct in AWK
 - 7.12: Pattern Matching

- **Lesson 8 : Shell Programming**
 - 8.1: Shell Variables
 - 8.2: Environmental Variables
 - 8.3: Shell script Commands
 - 8.4: Arithmetic Operations
 - 8.5: Command Substitution
 - 8.6: Command Line Arguments
 - 8.7: Conditional Execution

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Other Parallel Technology Areas

➤ **Windows OS**

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