

Course Overview

- Linux System Architecture
- Linux File System
- Working with Files & Directories
- Standard I/O & Redirection
- Linux Users & Groups Concepts
- File Attributes and Permissions
- The vi Editor Introduction
- Regular Expressions
- Filters & Searching



- Scheduling Jobs
- Tools & Utilities
- Connecting to Linux Machines
- Customizing Shell Environment
- Shell Scripting Intro
- Appendix & Miscellaneous

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Course Overview

- Quizzes
- Assignments
- PDF resources
- Sample data filesLinks to Internet Resources
- Tests (@ the end)



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How to get best out of this course?



- Access to a Linux System (Physical, Virtual or Cloud)
 - VirtualBox Installation
 - Create Virtual Machine & Install Ubuntu
 - Create AWS Account, Linux EC2 Instance & SSH to EC2 instance.
- Do not skip Quizzes
- Do not skip assignments
- Do not skip tests
- The **more** you _*practice*_ the better
- Learn once, and you will reap the benefits for the years to come.

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Linux History

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Linux – What is it?

- Command Line
- GUI
- Powers:
 - Servers
 - Routers/SwitchesDesktop/Laptops
 - Electronic Devices
 - etc.

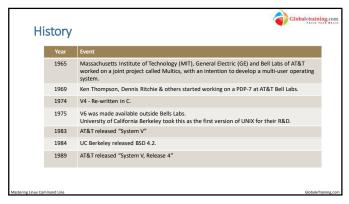
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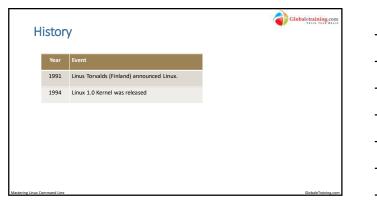
You might have heard....

Sun Solaris
Linux
BM AIX
Redhat Linux
HP-UNIX
Etc.

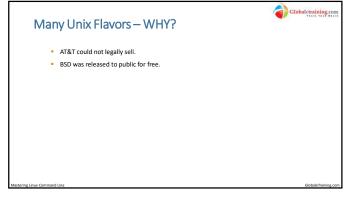
Mattering Linux Command Line

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| ι | Jnix | /Linux Flavors | | | | Globaletraining.com |
|-----------------|-----------|----------------|------------|---|-------|---------------------|
| | | BSD | Ubuntu | ✓ | Linux | |
| | | IBM AIX | Redhat | | | |
| | | Oracle Solaris | CentOS | | | |
| | | HP-UX | Fedora | | | |
| | | SCO | MAC OS | | | |
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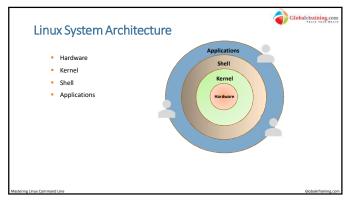


Linux System Architecture

Antonio Illino Commondillo

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Features of Linux Operating System

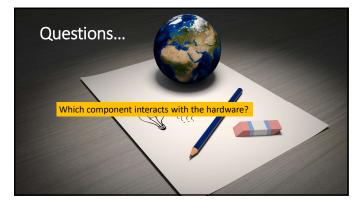
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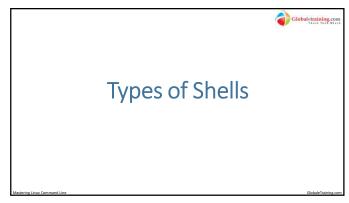
- Multi-tasking
- Multi-user
- Highly Portable
- Hierarchical File System
- Shell
- Security
- Everything is treated as files Files, Folders, Memory, I/O devices etc.

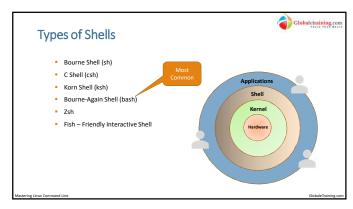
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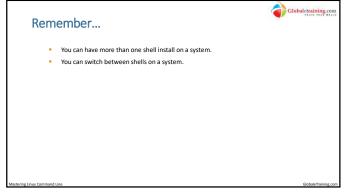
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Applications of Linux Operating System OS – Laptops, Desktops & Servers OS – Routers, Switches etc. Mobile Phones Smart Watches Smart TVS Iof Devices etc













Lab Setup

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Lab Environment



- Local System
- Local Virtual Machine
 - ✓ VirtualBox
- ✓ VmWare Workstation
- Cloud Environment
 - ✓ AWS
 - Azure



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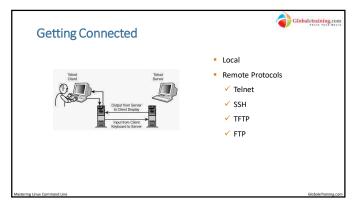


Appendix & Miscellaneous Section

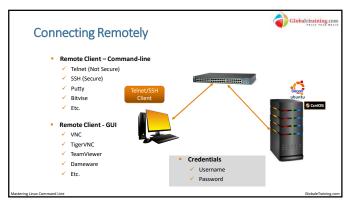


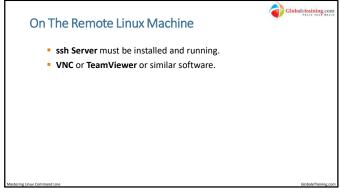
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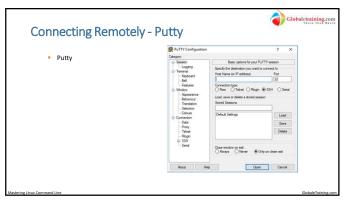


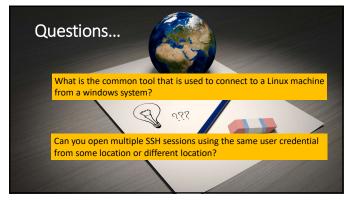














Linux Command Structure

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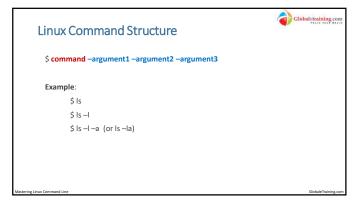
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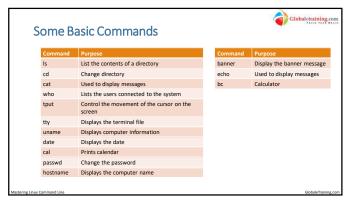
Linux Commands

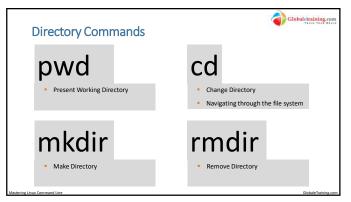


- Program written to perform specific action.
- All commands are written using lower case.
 - ✓ Example: Is, cd
- Commands can have 0, 1 or more arguments.

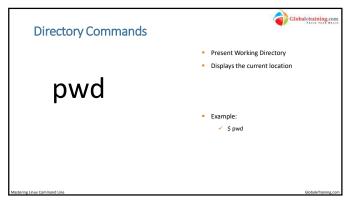
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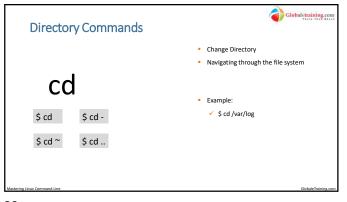




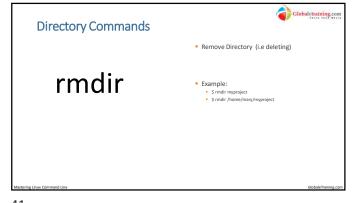


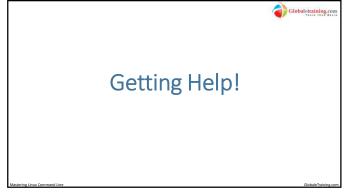


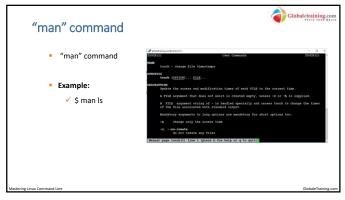


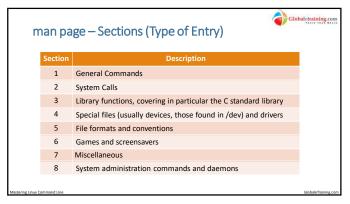


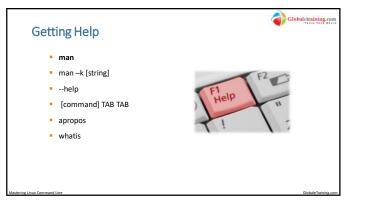
| Directory Commands | Globaletraining.com | | | | |
|------------------------------|--|--|--|--|--|
| | Make Directory (i.e creating) | | | | |
| mkdir | Example: S mixdir myproject S mixdir //home/mary/myproject | | | | |
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| Mastering Linux Command Line | | | | | |

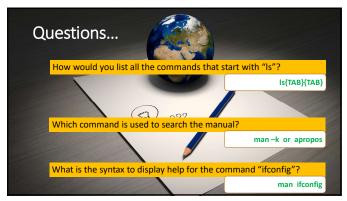












Internal Commands ■ Built-in commands of the shell ■ No additional process. ■ Speed → High ■ Example: ■ cd, pwd, echo External Commands ■ Not Built-in commands. ■ Stored as separate files ■ Separate sub-process. ■ Speed → slower than Built-in ■ Example: ■ Is, mv, cat