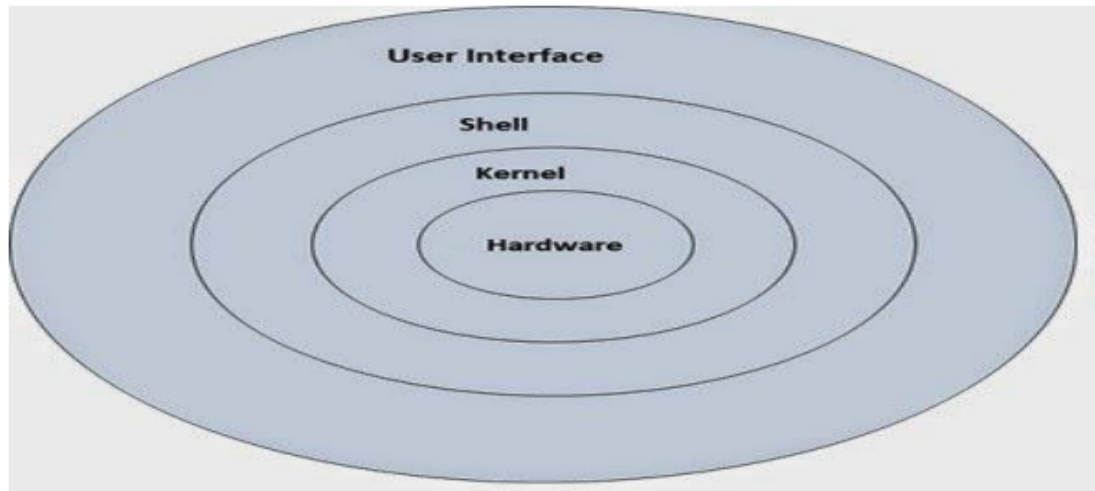# Linux For DevOps (Masterclass)

▼ Basics

    ▼ Why Linux

- Multi-User & Multi -Tasking

- Open Source

- Security

- Need less resources

    ▼ Linux Flavours

- RHEL (Red Hat Enterprise Linux)

- CentOS

- Ubuntu

- Amazon Linux

- Fedora

- Linux Mint

- OpenSUSE

    ▼ Architecture of Linux

▼ **Setup**

▼ **Commands**

▼ **Scripts**

▼

▼

▼ File system hierarchy

- / - This is top level directory

- /root - It is home directory for root user

- /home - It is home directory for other users

- /boot - It contains bootable files for Linux

- /etc - It contains all configuration files

- /usr - by default softwares are installed in this directory

- /bin - It contains commands used by all users

- /sbin - It contains commands used by only root user (root)

▼ Linux basic Commands

- cat (create & append file)

- touch (create blank file)

- nano (create & edit file)

- vi/vim (create & edit file)

- ls (list) (-a, -la)

- cd (change directory)

- pwd (print working directory)

- mkdir (create directory, multiple)

- cp (copy)

- mv (move)

- mv (rename)

- rm (remove file)

- tree (see in tree structure)

- rm -rf(remove directory & recursive)

- grep (pick & print)

- less (see output)

- head (see top 10 lines)

- tail (see last 10 lines)

- sort (display in Alphabetic/Numeric order)

- User

- Group

- Soft Link (shortcut)

- Hard Link (backup)

- /tar (to pack)

- gz (to compress)

- yum (to install)

- wget (to download)

- File/Directory Permissions:

- chmod (permissions)

- chown (owner)

- chgrp (group)

- hostname (to see hostname)

- ifconfig (to get ip address)

- cat /etc/*rele* (to get os version)

- apt get install httpd (to install package)

- yum update httpd (to upgrade package)

- yum remove httpd (to uninstall package)

- yum list installed (to see installed packages)

- service httpd status (to see status)

- service httpd start (to start service)

- service httpd reload (to restart service)

- service httpd restart (to restart service)

- chkconfig httpd on (to start service permanently)

- chkconfig httpd off (to stop service permanently)

- Redirection (redirecting output)

- which (to see package installed or not)

- sudo (to get root privileges)

- whoami (to see user)

- find -type f (to see all files in current directory)

- find -type d (to see all directories in current directory)

- find / -type f (to see all files under top level root directory)

- find / -type d (to see all directories under top level root directory)

- find / -type f -name <file_name> (to search specific file under top level root directory)

- find / -type d -name <dir_name> (to search specific dir under top level root directory)

▼ Advanced

AWK,GREP

- netstat -a