

# Everything Linux

This intermediate Linux training teaches practical skills through hands-on examples, covering everything from basic scripting to advanced system management. You'll learn BASH scripting, SSH authentication, filesystem management, RAID, LVM, and configuring services like Apache. Perfect for system administrators looking to deepen their Linux expertise or onboard new admins.

[CBT Nuggets course material](#) →



## WEEK 1

### System Architecture and Startup

160 min.

The Linux Boot Process & Initrd	1
Boot Time Kernel Commands and the Init System(s)	1
Managing Runlevels with SysVinit	1
Managing Boot Targets with Systemd	1
Proper Halting and Rebooting of Your System	1
SystemV Runlevels	1
SystemV Init Scripts	1
Upstart	1
Systemd	1

### GNU and Unix Commands

Overview	1
Command Line Intro	1
Working with Environment Variables	1
Manipulating Text: Head, Tail, Cat, Split	9
Manipulating Text: Paste, Join, Expand, Unexpand	1
Manipulating Text: sed	1
File Management	1
The "find" Command	1
Using tar, cpio, and dd	1
Compressing with Gzip and Bzip2	1
Standard Input (STDIN), Standard Output (STDOUT), and Standard Error (STDERR)	1
Pipes, Data Redirection, and Xargs	1
Foreground and Background Jobs	1
Signals and PIDs	1
Advanced Process Management	1
Process Priorities (Nice Levels)	1

Regular Expressions with grep, egrep, & fgrep	1
Basic vi Usage	1
Intermediate vi Usage	1

## File, User, and Group Management

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Changing Permissions & Creation Masks	1
SUID, GUID, & the Sticky Bit	1
Hard & Soft Links	1
File Hierarchy Standard	1
Find & Locate	1
User Profiles & System Profiles	1
Managing Users & Groups	1
Password, Group, and Shadow Databases	1

## System Services and Networking Essentials

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System Logging	1
Mail Transfer Agent Basics	1
Managing Printers	1
IPv4 & IPv6	1
Subnet Masks and CIDR Notation	1
Ports & Protocols	1
Basic Network Configuration	1
Basic Network Troubleshooting	1
Client-side DNS	1

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Scripting: Using BASH Shell Scripts — Entry Level	14
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Scripting: Nested Conditionals and Case Statements — Intermediate	18
Scripting: BASH While and Until Loops — Intermediate	13

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**153 min.**

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## Remotely Connect to Linux Servers with SSH

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SSH: Forward Tunnels	12
SSH: Reverse Tunnels	11
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SSH: Persistent Connection with autossh	10
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## Manage the Root Account in a Linux Environment

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Managing the Root Account: Remote SSH Access	6
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Managing the Root Account: Password Recovery on Ubuntu	5

### Mount Filesystems in a Linux Environment

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Mounting Filesystems: Mount and Unmount with Local Filesystems	6
Mounting Filesystems: Loop Filesystems (ISO Images)	3
Mounting Filesystems: SSHFS	4
Mounting Filesystems: WebDAV	4

## WEEK 3

158 min.

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Mounting Filesystems: CIFS	4
Mounting Filesystems: Mount on System Boot with fstab	5
Mounting Filesystems: Autofs	5

### Choose and Configure Linux File Servers

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Fileservers: Configuring Software RAID Partitions	6
Fileservers: Creating a Software RAID Device	5
Fileservers: Logical Volume Manager (LVM) Setup	6

Fileservers: Logical Volume Manager (LVM) Creation	5
Fileservers: NFS3 vs NFS4	6
Fileservers: Configure NFS Server	7
Fileservers: WebDAV	5
Fileservers: Configuring Samba Server	5
Fileservers: Configuring Samba Shares	5

### Install and Configure the Apache Web Server in Linux

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Apache: PHP	5
Apache: SSL	5
Apache: Force SSL/HTTPS	3
Apache: Create WebDAV Server	5
Apache: CentOS/Debian Differences	5
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131 min.

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Mounting a Remote Rclone Share on a Local Folder	5

## Adept Linux Navigation with tmux

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