



Linux Certification Training

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About the Program

Our Linux training course lets you master the Linux OS. We provide the best online training classes to help you learn Linux installation and administration, Red Hat system, deploying Linux Kernel, and testing, debugging, and boot processes. As part of the training, you will work on real-world industry projects.

About Intellipaat

Intellipaat is one of the leading e-learning training providers with more than 600,000 learners across 55+ countries. We are on a mission to democratize education as we believe that everyone has the right to quality education.

Our courses are delivered by subject matter experts from top MNCs, and our world-class pedagogy enables learners to quickly learn difficult topics in no time. Our 24/7 technical support and career services will help them jump-start their careers in their dream companies.

Key Features



**16 HRS INSTRUCTOR-LED
TRAINING**



16 HRS SELF-PACED TRAINING



**32 HRS REAL-TIME
PROJECT WORK**



LIFETIME ACCESS



24/7 TECHNICAL SUPPORT



**INDUSTRY-RECOGNIZED
CERTIFICATION**



**JOB ASSISTANCE THROUGH
80+ CORPORATE TIE-UPS**



FLEXIBLE SCHEDULING

Career Support



SESSIONS WITH INDUSTRY MENTORS

Attend sessions from top industry experts and get guidance on how to boost your career growth



MOCK INTERVIEWS

Mock interviews to make you prepare for cracking interviews by top employers



GUARANTEED INTERVIEWS & JOB SUPPORT

Get interviewed by our 400+ hiring partners



RESUME PREPARATION

Get assistance in creating a world-class resume from our career services team



Why take up this course?

Linux is a powerful open-source operating system that is being used by a large section of the corporate world. This OS ensures that you have the power to configure, manage, and secure your systems. Taking up this training course will help you take on high-paying jobs in the corporate world as a Linux Administrator.

Who should take up this course?

- Software Engineers and IT Professionals
- Linux Developers and Administrators

Program Curriculum

Linux Admin Course Content

1. INTRODUCTION TO LINUX

Introduction to Linux, basics of Shell, basics of Kernel, CentOS 8 installation and VBox additions, basic Linux commands, ECHO and EXPR command, set and unset a variable, and the header of a shell script (#!)

Hands-on Exercise: Executing basic Linux commands, installing CentOS 8 on VirtualBox, and adding guest additions to the installed OS

2. FILE MANAGEMENT

Text editors and file creation; users, groups and processes; root and Linux file hierarchy, understanding file hierarchy, understanding file permissions, chmod and chown commands, the LS command, metacharacters, editing a file using VIM, displaying contents of a file, and copying, moving, and removing files

Hands-on Exercise: Using VIM, creating users and groups, creating files and directories, assigning file permissions and ownership using chmod and chown, and editing files in VIM

3. FILES & PROCESSES

Everything is a file in UNIX/Linux (files, directories, executables, and processes), process control commands (ps and kill) and other process control tools (top, nice, and renice)

Hands-on Exercise: Executing ps and kill commands on running services and monitoring the OS using top

4. INTRODUCTION TO SHELL SCRIPTING

What is shell scripting? Types of shell, creating and writing a shell script, changing the permission of the shell script, executing the script, environment variables, defining a local and a global variable, and the user input in a shell script

Hands-on Exercise: Creating a shell script, writing and executing the shell script, creating a local and a global variable, and taking the input from a user in a shell script

5. CONDITIONAL STATEMENTS, LOOPING STATEMENTS, & FUNCTIONS

What are conditional statements? Using IF, IF-ELSE, nested IF statements, looping statements, using WHILE, UNTIL and FOR statements, using the case...esac statement, functions, creating a function in Linux, and calling functions

Hands-on Exercise: Executing IF, IF-ELSE, and nested IF statements, executing WHILE, UNTIL and FOR statements, executing the case....esac statement, creating a function in multiple ways, calling a function in a file, and calling a function from another file

6. TEXT PROCESSING

Using the GREP command, using the SED command, using the AWK command, mounting a file to the virtual box, creating a shared folder (mounting a folder), using the SORT command, and using pipes to combine multiple commands

Hands-on Exercise: Executing commands using GREP, executing commands using SED, executing commands using AWK, mounting a folder in the Windows OS to the Linux OS, installing VirtualBox guest additions on CentOS 8, and extracting zipped files

7. SCHEDULING TASKS

What are Daemons? Introduction to task scheduling in Linux, scheduling a job in Linux, cron and crontab, how to use cron, and using the AT command

Hands-on Exercise: Starting, stopping and restarting Daemon processes, scheduling jobs using cron and crontab, scheduling a one-time task using AT, and managing scheduled tasks using ATQ and ATRM

8. ADVANCED SHELL SCRIPTING

Why monitoring? Introduction to process monitoring, Top vs Htop, PGREP, introduction to file and folder monitoring, the monitoring tool inotifywait, inotifywait options for folder monitoring, events of a folder in inotify, and the FREE command

Hands-on Exercise: Using Top to monitor the OS, installing Htop, using Htop to monitor the OS, filtering and sorting using Htop, installing inotify tools, monitoring a

folder using inotifywait, monitoring a folder only for certain events, and using the FREE command

9. DATABASE CONNECTIVITY

Installing and configuring MySQL, securing MySQL, running queries from the terminal, and running queries from a shell script

Hands-on Exercise: *Downloading and installing MySQL, connecting to MySQL from a terminal, querying directly from the terminal, pushing the query result inside a file, and CRUD operations from a shell script*

10. LINUX NETWORKING

What is networking in Linux? Why networking? Using networking commands: IFCONFIG, PING, Wget and cURL, SSH, SCP and FTP, learning firewall tools: iptables and firewalld, DNS and resolving IP address, /etc/hosts and /etc/hostname, and nslookup and dig

Hands-on Exercise: *Executing all the networking commands, using iptables and firewalld, adding and removing ports, resolving IP address in /etc/hosts, and looking into a website's IP and nameservers using nslookup and dig*

Project Work

Linux Admin Projects Covered

Project: Installing WordPress on CentOS 7

Industry: Internet-related

Problem Statement: Installing LAMP stack on CentOS 7 and creating a database for WordPress

Topics: In this project, you will be working on creating your account on WordPress (with Database), then flushing it using Flush Privileges, and installing a PHP module. You can get the package directly from CentOS's default repositories using yum, and also, you will install and update WordPress for the latest template and formats.

Highlights:

- CentOS server installation
- Creating a MySQL database
- WordPress installation and configuration

Certification

After the completion of the course, you will get a certificate from IntelliPaat.



CERTIFICATE OF COMPLETION

This certificate is awarded to

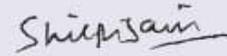
Your Name

Who has successfully completed

Course Name

Fulfilling all the requirements stipulated by IntelliPaat to achieve professional excellence.

Issued Date: Month XX, XXXX



Mrs. Shilpi Jain
Director,
intellipaate Software Solutions Pvt. Ltd.

VERIFIED
CERTIFICATE

Certificate ID #94658291

Success Stories



Kevin K Wada

Thank you very much for your top-class service. A special mention should be made for your patience in listening to my queries and giving me a solution, which was exactly what I was looking for. I am giving you a 10 on 10!



Sampson Basoah

The Intellipaateam helped me in selecting the perfect course that suits my profile. The whole course was practically oriented, and the trainers were always ready to answer any question. I found this course to be impactful. Thank you.



Sugandha Sinha

Intellipaate's course instructors were excellent and well-versed with their concepts. The support team solved all my queries within the promised 24 hours. They explained all topics and concepts well, and the course material was updated and included videos, exercises, etc. I would highly recommend Intellipaate to those who wish to excel in the IT field.



Vishal Pentakota

The best part of this course was the series of hands-on demonstrations that the trainer performed. Not only did he explain each concept theoretically, but he also implemented all those concepts practically. Great job! A must go for beginners.

CONTACT US

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If you have any further queries or just want to have a conversation with us, then do call us.

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