



LINUX TRAINING

Introduction To Linux Open Source Development And Git

Dive into Linux open source development and master Git for version control. Build collaborative projects and contribute to the open-source community.

DURATION

2 hours

LEVEL

Intermediate

FORMAT

Instructor-Led

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- Globally Recognized Certification
 - Expert-Led Hands-On Training
 - Flexible Scheduling

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COURSE OVERVIEW

This "Introduction To Linux Open Source Development And Git" course is meticulously designed to equip aspiring developers and IT professionals with foundational knowledge and practical skills crucial for navigating the open-source ecosystem. You will delve into the core principles of Linux, understanding its architecture, command-line interface, and how it serves as the backbone for much of modern software development. The course emphasizes hands-on experience, ensuring you can confidently interact with Linux environments, manage files, and execute essential commands.

Beyond Linux fundamentals, a significant portion of this training focuses on Git, the industry-standard version control system. You will learn to initialize repositories, track changes, commit effectively, and understand branching and merging strategies that are vital for collaborative development. This course not only provides technical expertise but also fosters an understanding of open-source methodologies, empowering you to contribute to community projects, enhance your problem-solving abilities, and collaborate seamlessly in team-based software development environments. By mastering these technologies, you'll lay a solid groundwork for advanced development practices and a diverse range of IT career paths.

Duration	2 hours
Level	Intermediate
Vendor	Linux

COURSE CURRICULUM

01 Module 1: Understanding Linux and Open Source

- Introduction to Linux and its history
- The philosophy of Open Source and its benefits
- Different Linux distributions (Ubuntu, CentOS, Fedora)
- Basic Linux architecture and file system hierarchy
- Virtualization and setting up a Linux environment

02 Module 2: Linux Command Line Fundamentals

- Navigating the file system (cd, ls, pwd)
- File and directory management (mkdir, touch, cp, mv, rm)
- Text manipulation with cat, less, more, grep
- Permissions and ownership (chmod, chown)
- Process management (ps, top, kill)

03 Module 3: Introduction to Git for Version Control

- What is Version Control and why is Git essential?
- Installing and configuring Git
- Initializing a Git repository (git init)
- The Git workflow: working directory, staging area, local repository
- Tracking changes: git add, git commit, git status, git diff

04 Module 4: Git Branching and Collaborative Workflows

- Understanding Git branches (git branch, git checkout)
- Merging branches (git merge)
- Handling merge conflicts
- Introduction to remote repositories (GitHub, GitLab, Bitbucket)

- Pushing and pulling changes from remote (git push, git pull)

05 Module 5: Basic Open Source Contribution Practices

- Forking repositories and cloning projects
- Submitting pull requests (PRs)
- Reviewing code and giving feedback (basic concepts)
- Best practices for commit messages
- Finding and contributing to open-source projects

CAREER PATHWAYS

Graduates of this program are prepared for the following roles:

- > **Junior Linux Administrator**
- > **Entry-Level Software Developer (focusing on open source contributions)**
- > **DevOps Assistant**

FREQUENTLY ASKED QUESTIONS

Q: What are the prerequisites for enrolling in the 'Introduction To Linux Open Source Development And Git' course?

This course is designed for beginners, so there are no strict technical prerequisites. A basic understanding of computer operations and a willingness to engage with command-line interfaces are beneficial. No prior experience with Linux, open-source tools, or Git is required, as the course covers all foundational concepts from scratch.

Q: How will the skills learned in this course directly enhance my career prospects in software development or IT operations?

Mastering Linux fundamentals and Git is critical for nearly all modern IT roles. This course will enable you to confidently work in Linux environments, collaborate effectively on codebases using Git, and understand the open-source ecosystem. These skills are highly sought after by employers for roles ranging from software development and DevOps to system administration, making you a more versatile and valuable asset in the tech industry.

Q: Will I be able to contribute to open-source projects after completing this 'Introduction To Linux Open Source Development And Git' course?

Yes, upon completion of this course, you will have a solid understanding of the tools and processes required to make your first contributions to open-source projects. You'll learn how to navigate project structures, use Git for version control, and understand the basics of submitting changes. While this course serves as an introduction, it provides the essential groundwork to confidently start engaging with and contributing to the vast open-source community.

ABOUT COMPUTER PRIDE



computerpride

East Africa's Premier IT Training Center

With over 15 years of excellence, Computer Pride delivers globally recognized certification programs from leading technology vendors. Located on Kenyatta Avenue in Nairobi's CBD, our state-of-the-art facilities and expert instructors have empowered thousands of professionals across East Africa.

15+

Years of Excellence

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READY TO ENROL?

Take the next step in your technology career.

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