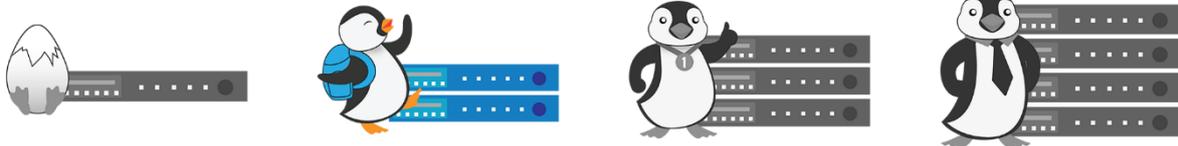


LINUX ESSENTIALS

The **NDG Linux Essentials course**, is an introduction to Linux as an operating system, basic open source concepts and the basics of the Linux command line. **Content developed by experts, a Linux virtual machine and step-by-step labs give you hands-on access to practice Linux command line concepts. With no previous knowledge required, this course is the perfect starting point to gain Linux skills.**



WHY LINUX

- 1: Linux is really secure
- 2: Linux is Versatile - Linux is almost everywhere
- 3: Linux is a community
- 4: Linux offers you great career opportunities
- 5: A great pool of open source software.
- 6: Linux can run on minimum hardware requirements.

VERSATILITY

- Linux is used in **498 out of 500** of the world's speediest *supercomputers* now use *Linux* (excerpt from Nov 2016 on zdnet)
- Linux from all OS'es, runs on the most diverse hardware (computer architectures).
- The internet backbone - or the internet architecture - is almost completely unix based.
- Unix/Linux is the operating system base for for 66.5% of the websites on the public internet
- Linux (Android) has a 65.18% market share in the mobile operating system phone market.
- When it comes to supercomputers 99.79% of them run a custom Linux distro, and the remaining 0.21% run some form of Unix
- When it comes to the PlayStation 3/4 and Xbox 360/One, globally the Playstation 3/4 has a 70.78% market share. Both Playstation platforms are built on Unix.
- Linux can revive older computers
- Free To Use and Reliable
- Higher Community Support

SECURITY

- it's one of the most and best secured OS'es around. From devices/files up to programs, access mechanisms, secure messaging, you name it.

- Unix was written from the beginning with the idea that multiple people would be using the computer simultaneously. Multi-user, multi-tasking was available from the beginning.

COURSE FEATURES

- Develop a basic knowledge of the Linux command line
- Study content explaining Linux as you practice on real Linux virtual machines
- Access expert content online
- Prepare for the Linux Professional Institute (LPI) Linux Essentials Professional Development Certificate
- Get immediate feedback on your knowledge through built-in quizzes and tests

CERTIFICATION

Aligned to the Linux exam objectives found on the CompTIA A+ certification, learners develop basic Linux knowledge and whet appetite to further build Linux expertise Linux Essentials prepares students to pursue more advanced Linux education and certification. It bridges the gap between beginner and intermediate skills by offering students hands-on, step-by-step practical lab activities. Graduates walk away with a firm grasp of the foundational concepts needed to succeed in a Linux career.

EDUCATIONAL PROGRAM – SYLLABUS

Learn entry level open source concepts

Further your understanding of how Linux is used and the command line

Apply skills using Linux virtual machines (provided free of charge)

This will be a full semester course with:

- 16 chapters
- Learn by doing approach
- Linux virtual machine to practice command-line concepts
- Access to official Linux materials by Cisco Networking Academy
- Seamless integration of lectures, content, labs and assessments
- Easily incorporated into university, college and technical programs

CONTENT

1. Introduction to Linux
2. Open Source Applications and Licenses
3. Using Linux
4. Command Line Skills
5. Getting Help
6. Working with Files and Directories
7. Archiving and Compression
8. Pipes, Redirection and REGEX
9. Basic Scripting
10. Understanding Computer Hardware
11. Managing Packages and Processes
12. Network Configuration
13. System and User Security
14. Managing Users and Groups
15. Ownership and Permissions
16. Special Permissions, Links and File Locations

DURATION

The training consists of 70 hours with a duration of approximately 3 months. The specific days and hours of the lessons will be announced to the participants.

ENTRY CRITERIA – PREREQUISITES

1. Participants are expected to have basic computer literacy prior to enrolling in this seminar.
 2. Good knowledge of English is required.
- 20-25 hours / week of studying are required. If you do not have enough time, this is not the program for you.
 - Projects and tasks will be given to you every week. If you don't do the projects, you cannot attend the lesson. Each subsequent lesson is based on the previous one.
 - You must be in Athens to follow it.
 - The program is offered to all, regardless of nationality.
 - A genuine interest for Computers and networks is required.