Partner Content: Linux Essentials SMT

Jackie Barker & Jorge Leiton Engaging Partners for Innovation & Change

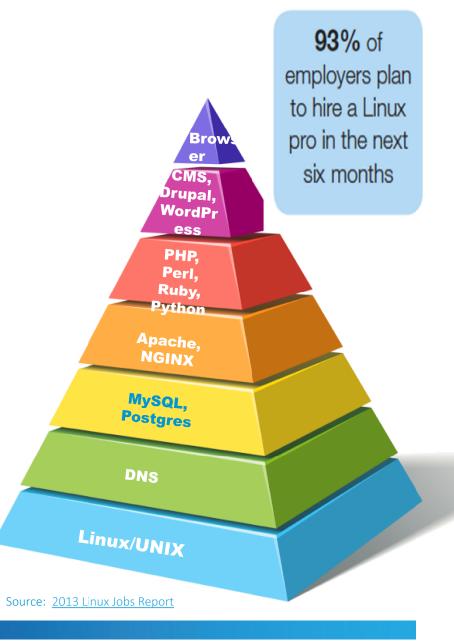
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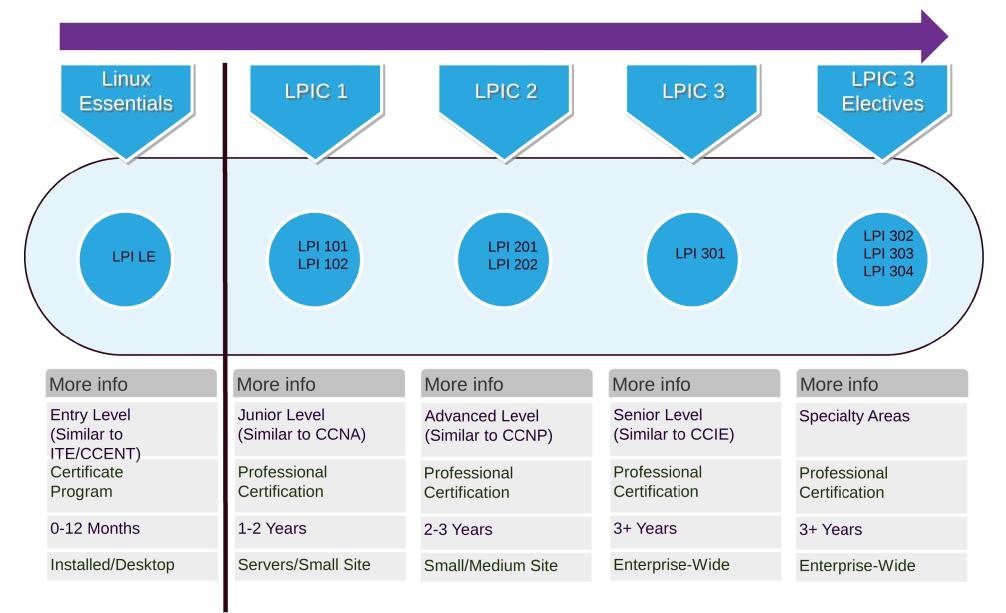
CISCO Cisco Networking Academy Mind Wide Open

Why Linux Essentials?

- Linux essential foundation for many IT jobs
- Most Cisco DC, UC, and management softwar runs on or requires Linux knowledge
- Linux is essential in "app" development
- Demand for Linux spurred by open cloud development and the growing need for Big C solutions, plus the use of embedded technologies in smartphones, cars, and othe products
- 95% of LPI institutions are also NetAcad institutions



Linux Pathway



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Linux Essentials SMT/Pilot

- Curriculum developed by Network Development Group (NDG) for Linux Professional Institute (LPI)
- Instructor-led online curriculum
- Aligns with Linux Essentials Certificate of Achievement
- Targeted to entry-level Linux professionals

Linux Essentials Course Overview

Course Modules

		Module 1 - Running Linux As an Operating System			
	P	Chapter 1			
	A•	Chapter 1 Exam must submit the assignment			
		Module 2 - Evaluate Available Applications			
	P	Chapter 2			
\$	A•	Chapter 2 Exam must submit the assignment			
		Module 3 - Buzzword Bingo			
	P	Chapter 3			
	A•	Chapter 3 Exam must submit the assignment			
		Module 4 - Command Line Basics			
	P	Chapter 4			
	A•	Lab 4			
_	A۰	Chapter 4 Exam			

Chapter quizzes, labs, & final exams

cisco. Cisco Networking Academy

Courses 🗸 🗸	Assignments 👻 🗸	Grades	Calendar	
LE001	♠ > LE001			
Home				
Announcements	Linux Essentials Demo			Change Home Page Layout
Modules				
Grades				
Assignments				
Discussions	Understanding the Lir	nux command line	e can be a powerful :	normation
People	Communication Tech	nology (ICT) profe	n the Linux Essentials	
Pages	course are applicable developers to Linux a	N 100		
Files				- Academic -
Syllabus	Go to the Modules L	ist to get starte	d!	
Outcomes				
Quizzes				•

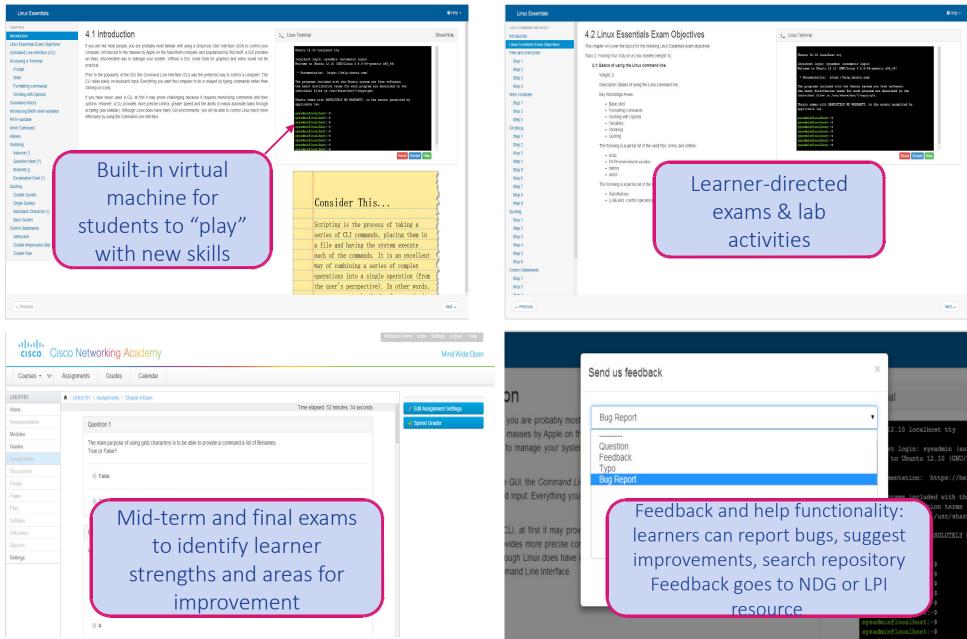
Course on NetSpace

Linux Essentials		>_ Linux Terminal Show
HAPTER 5		
ntroduction	5.2 Linux Essentials Exam Objectives	
inux Essentials Exam Objectives	This chapter will cover the topics for the following Linux Essentials exam objectives:	Ubuntu 12.10 localhost tty
an Pages Viewing man pages Controlling the man Page Display	Topic 2: Finding Your Way on a Linux System (weight: 8) 2.2: Using the Command Line to Get Help	localhost login: sysadmin (automatic login) Welcome to Ubuntu 12.10 (GNU/Linux 3.8.0-34-generic x86_64)
Sections of the man Page man Page SYNOPSIS Section	Weight: 2 Description: Running help commands and navigation of various help systems	* Documentation: https://help.ubuntu.com/
Searching Within a man Page man Pages Categorized by Sections	Key Knowledge Areas: • man	The programs included with the Ubmut system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.
Determining Which Section Specifying a Section Searching Sections	 Info The following is a partial list of the used files, terms, and utilities: 	Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.
Searching man Pages by Keyword fo Command Displaying Info Documentation for a	• man • info • man pages • Juszámzeboc • locate	sysadmin@localhost:~\$
Command Moving Around While Viewing an info Document	Things that are nice to know. • apropos	
Exploring info Documentation ditional Sources of Help	• whatis • whereis	Recet Restart Ha
Using thehelp Option		

New interface

Linux terminal for handson testing

Linux Essentials: Course Features



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Frequently asked questions

• How do I get access to the Linux course?

Step 1: Cisco Academies can register with the LPI Academy to become eligible to teach Linux Essentials. Send an email to: <u>academysupport@lpi.org</u>

Step 2: Register instructors that will utilize the NDG Linux Essentials curriculum with LPI. If they are not already in NetSpace, add them to NetSpace.

- How long will it take to complete the course?
 - You can use the material based on the needs of the academic institution and students. It is anticipated it will take a full semester or a quarter based on your unique students.
 - The content can be included in a Linux course or as a module in an OS course.

Linux Essentials Outline

Module	Title	Topics Covered
Module 1	Running Linux As an Operating System	Linux evolution and popular operating systemsChoosing an operating system
Module 2	Evaluate Available Applications	Major open source applicationsUnderstanding open source software and licensing
Module 3	Buzzword Bingo	ICT skills and working in Linux
Module 4	Command Line Basics	Basics of using the Linux command line
Module 5	Getting Help	Using the command line to get help
Module 6	Listing Files and Directories	Using directories and listing filesCreating, moving and deleting Files
Module 7	Archiving and Un-archiving Files	Archiving files on the command line
Module 8	Pies, Redirection, and REGEX	Searching and extracting data from files
Module 9	Scripting Commands	Turning commands into a script
Module 10	Understanding Computer Hardware	Understanding computer hardware
Module 11	Linux Data Locations	Where data is stored
Module 12	Poking Around the Network	Your computer on the network
Module 13	See Who Is on Your System	Basic security and identifying user types
Module 14	Create a New User	Creating users and groups
Module 15	Ownership and Permissions	Managing file permissions and ownership
Module 16	Securing Files and Directories with Special Permissions	Special directories and files

Frequently asked questions

• Is there a certificate of completion or letter?

LPI Academy and NDG are currently developing a process to distribute course completion documents and letters. We will provide more information when the qualifications and processes have been defined.

• Do I need any additional equipment for the course?

No additional equipment is required for this course.

Who should I contact if I have any other questions about Linux Essentials?

All questions, comments, and feedback should be directed to

academysupport@lpi.org

... Your friendly Algonquin College Professor!

Thank you.

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