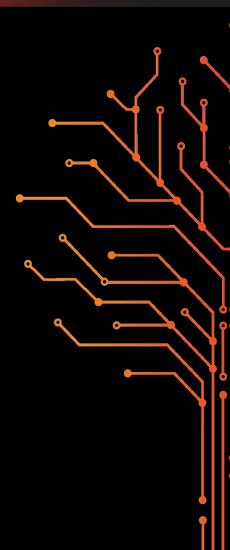


Welcome to the 1st session of the *Intro* to *Linux* webinar series!

- Use the Q and A panel to ask questions.
- Use the Chat panel to communicate with attendees and panelists.
- A link to a recording of the session will be sent to all registered attendees.
- Please take the feedback survey at the end of the webinar.



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Presenters and Panel

- Grace Bixby
- NDG Linux Course Product Manager

Rich Weeks

NDG President

- Jorge Leiton
- Cisco Linux Course Product Manager
- Richard Myers
- Director of Support Services Linode

Matt Rice

- Linux Professional Institute (LPI) Executive Director
- Fabian Thorn
- LPI Director of Certification Development

Josh Good

Cisco Customer Support Engineer
 Data Center Solutions

Agenda

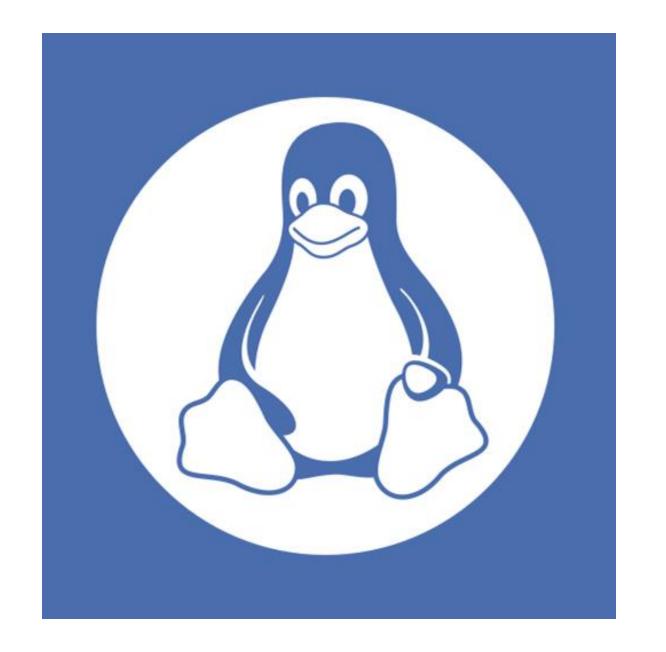
- Why should you learn or teach Linux?
- Job opportunities for people that know Linux.
- Example of a business using Linux to serve the marketplace.
- Brief overview of NDG courses available via Cisco Networking Academy.
- Linux Professional Institute will explain how to document your job skills.
- Example of how a Cisco engineer uses Linux at work.

What Is Linux?

Linux [lin-uh ks]

Computers, Trademark.

1. an operating system created by Linus Torvalds, based on UNIX, that runs on many different hardware platforms and whose source code is available to the public.





THE WORLD RUNS SMARTER WITH LINUX



99% of the world's top supercomputers run Linux



1.4 Billion active users of Linux-based Android devices



80% of all stock exchanges rely on Linux

LINUX GOES WHERE NO MAN HAS GONE BEFORE



32 space missions completed with Linux



Linux is helping NASA's

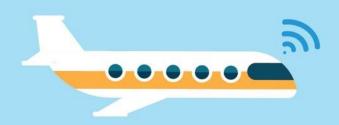
Curiosity Rover explore Mars



SpaceX uses Linux on the Dragon and Falcon 9 spacecraft



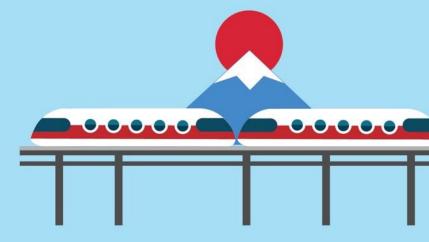
LINUX IS TRANSFORMING TRANSPORTATION





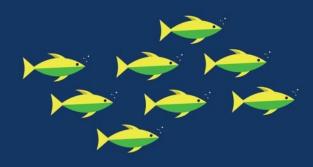


Queensland Motorways
relies on Linux for smart traffic
management



Linux helps run **bullet trains** in Japan

SWIMMING THE SEAS WITH TUX



Poseidon Linux is the preferred GNU/Linux distribution for

oceanography

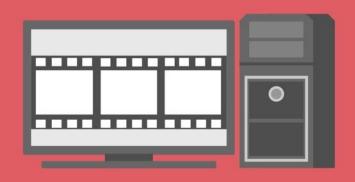


1.2 Million nautical miles traveled by the Linux-powered Wave Glider® ocean robot



Linux helps smart buoys detect tsunami formations in the Indian Ocean

LINUX IS BIG IN HOLLYWOOD



95% of desktops and servers use Linux for animation and visual effects



Titanic was the first feature film produced on Linux servers



It took **9100** computing render-years to produce
The Croods

FROM BIG DATA TO THE BIG BANG



200 Million pages of clinical data in 15 seconds



"The God Particle"
was discovered using CERN's
Linux-powered Large Hadron
Collider



Google, Amazon, even Microsoft use Linux to power their cloud services

Companies That Use Linux

























Interesting Opportunities for Linux Professionals

Take a drive with Bill Gates in a Tesla Model X

Fred Lambert - 2 days ago 9 @FredericLambert

CARS MODEL X TESLA



TECHNOLOGY LAB / INFORMATION TECHNOLOGY

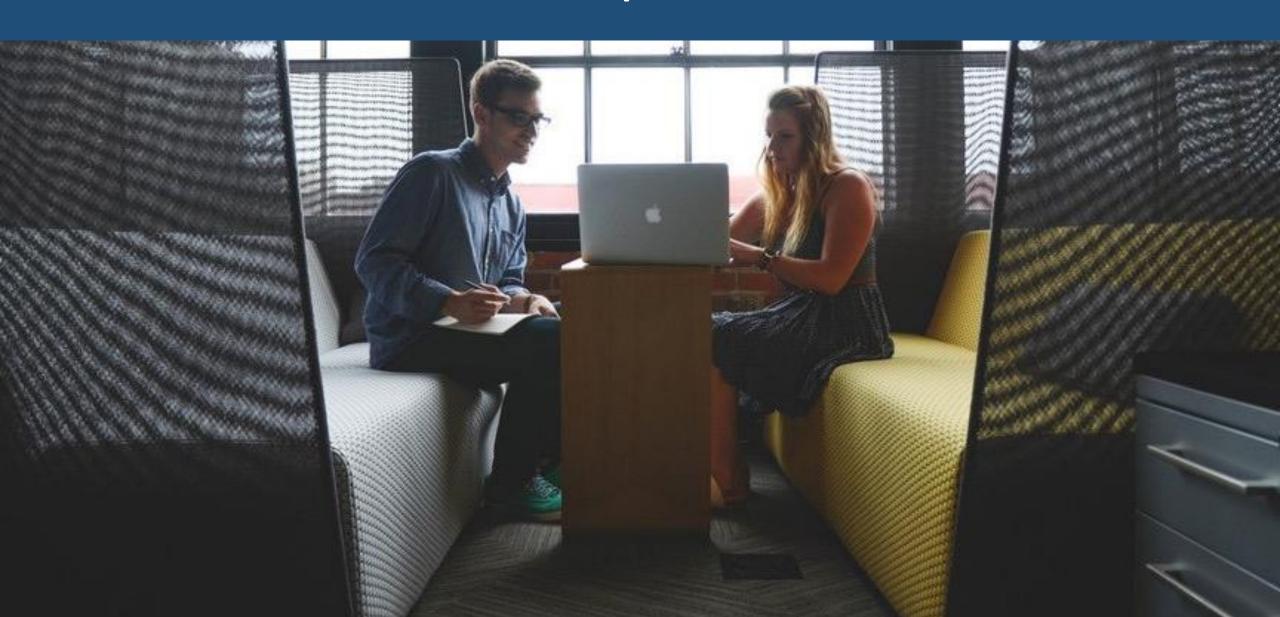




Windows 10

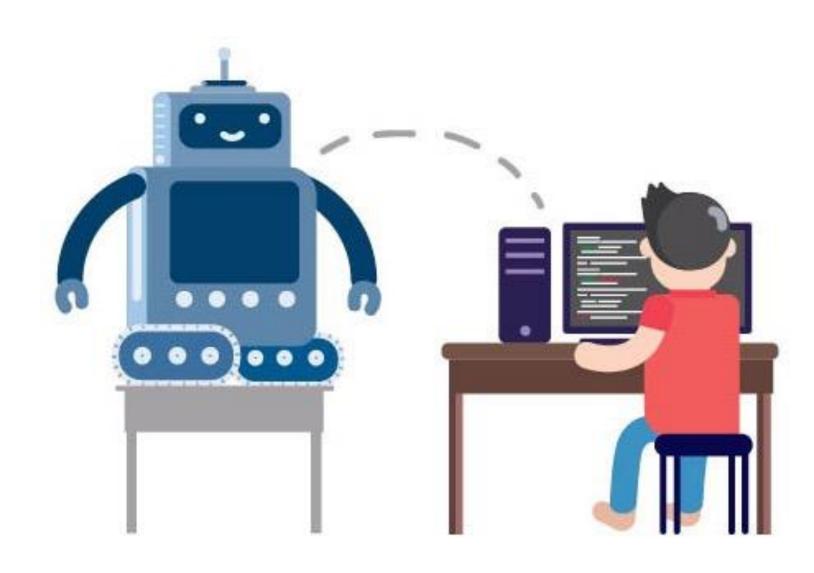
UDUNEU

Linux Is Open Source



Advantages of Open Source

- Community
- Security
- Flexibility
- Adaptability
- Freedom
- Quality
- Cost



Popular Linux Distributions



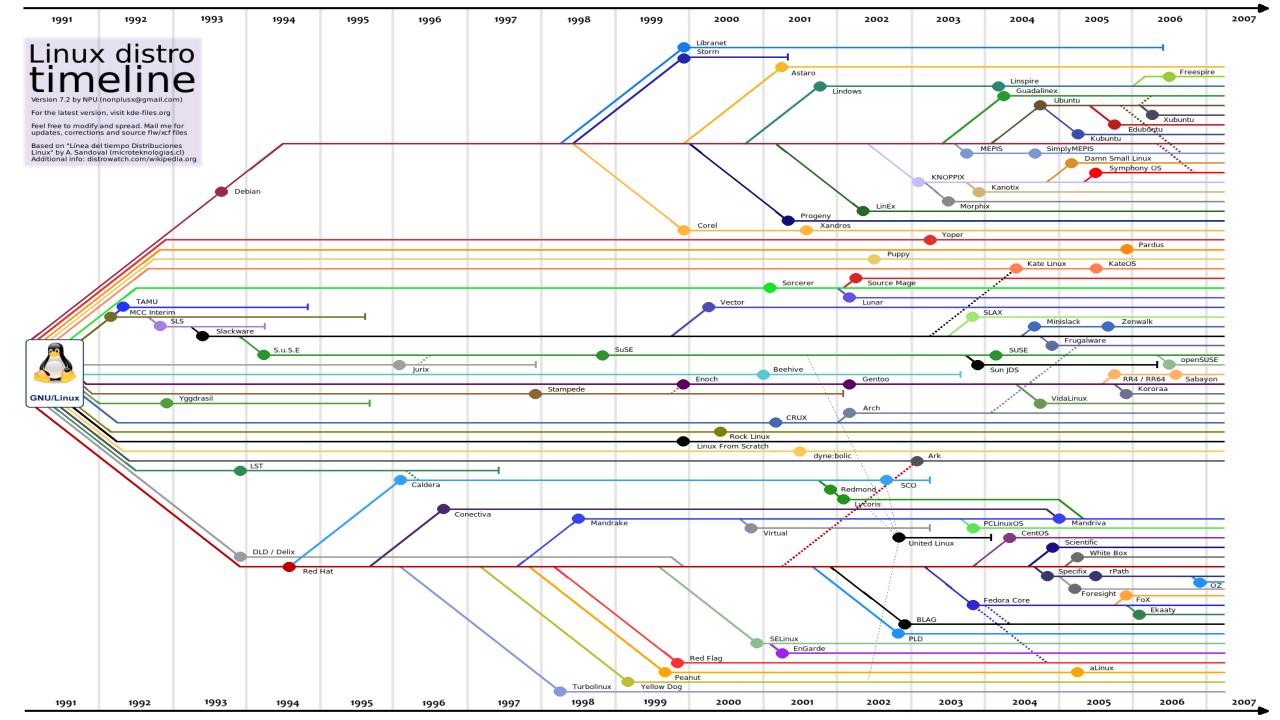












Linux Skills Are In Demand



97% of hiring managers plan to hire Linux talent within 6 months



88% of hiring managers say it is difficult to find qualified Linux talent



90% of professionals say that knowing Linux has advanced their careers

Linux Skills Are In Demand

Indeed.com Job Search Keyword = Linux

Jobs	Country
76,594	China
63,929	USA
19,867	Japan
19,030	India
10,965	England
8,576	France
8,362	Germany
1,255	Australia
1,187	Mexico



Linux jobs in United States

Sort by: relevance - date

Salary Estimate

\$70,000+ (55568) \$85,000+ (44823) \$95,000+ (33748) \$100,000+ (27478)

\$115,000+ (11099)

Job Type

Full-time (54002) Contract (8602)

Internship (1193)

Temporary (1086)

Part-time (864)

Commission (70)

Location

New York, NY (2845) Seattle, WA (2238)

mat.

Linux

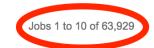
United States

Find Jobs

job title, keywords or company

city, state, or zip

where:



New! Join Indeed Prime - Get offers from great tech companies

Show: all jobs - 37,829 new jobs

Network/Server Administrator (IDC Onsite)

CAMiWell - Santa Clara, CA

Position: Network/Server Administrator (5) Job type: Full-time City: Santa Clara, CA, USA Start date: April 2016 Requirements: * Fluent in English and Chinese...

Easily apply

17 days ago - email

Sponsored

Linux Technical Support

Linode - Haddonfield, NJ

Linux System Administration experience. Comfortable with the Linux command line. Familiarity with common Linux server applications such as Apache2, Nginx,...

Easily apply

30+ days ago - email

Sponsored

Linux Salary Guide



Linux System Administrator

Salary Range: \$41,000 to \$105,000

41K 105k

National Average: \$67,000

Linux System Engineer

Salary Range: \$59,000 to \$118,000

59K

1.1

National Average: \$89,018



Network Administrator

Salary Range: \$48,000 to \$82,000

K .

82K

National Average: \$63,584

Network Engineer

Salary Range: \$54,000 to \$108,000

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National Average: \$73,165



Support Technician

Salary Range: \$23,000 to \$51,000

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National Average: \$36,337

Support Engineer

Salary Range: \$43,000 to \$97,000

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National Average: \$70,000



DevOps Engineer

Salary Range: \$68,000 to \$142,000

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National Average: \$100,000

Cloud Engineer/Developer

Salary Range: \$50,000 to \$120,000

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National Average: \$95,000



Software Engineer

Salary Range: \$67,000 to \$132,000

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132K

National Average: \$95,195

Software Developer

Salary Range: \$44,000 to \$127,000

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127K

National Average: \$85,000



IT Manager

Salary Range: \$41,000 to \$131,000

41K

National Average: \$70,628

IT Technician

Salary Range: \$23,000 to \$57,000

23K

57

131K

National Average: \$35,839

It's not just one type of job.









Networking



Cyber Security



Design/Arch Planning



Data Management



Linux is a core skill for all IT professionals.



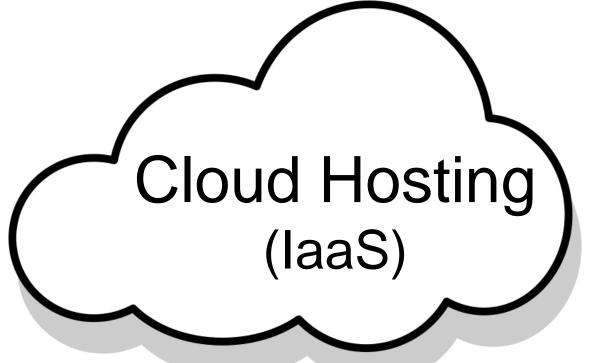


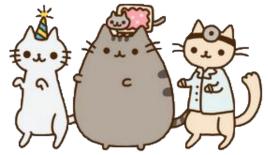
Linode.com

Cloud Servers for Designers, Developers, Ideas and You



What Does Linode Do?

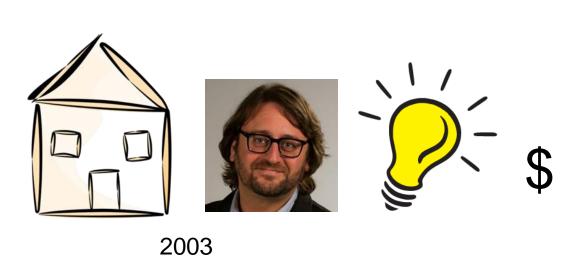








What's Linode's Story?







From an Apartment to This





What's So Great About Linux?

- Dominant operating system for servers on the Internet
- It's open source so:
 - It's more secure
 - It's a constantly advancing technology
 - It's free
 - Other "cool" technologies use it
 - More and more companies are outsourcing IT to Linux based laaS providers.
- Money & Jobs
- Start-ups





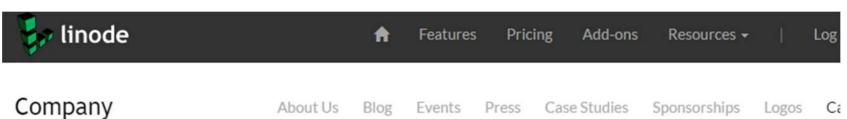
linode What Can You Do if You Know Linux?

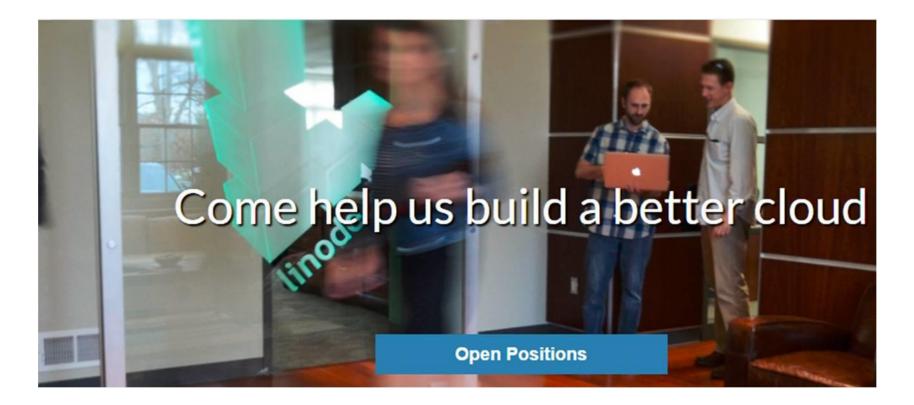
- Linode's Current Needs
 - Front-end Engineer
 - Back-end Engineer
 - Technical Support

- Other Linux/Linode Jobs
 - Security
 - Networking
 - Hardware



www.linode.com/careers





Customer Support

Linux Technical Support

Haddonfield, NJ

Development

Front-End Engineer

Haddonfield, NJ

Manager, Software Engineering

Haddonfield, NJ

Software Engineer

Haddonfield, NJ

Operations

Linux Systems Engineer

Haddonfield, NJ

Manager, System Engineering

Haddonfield, NJ



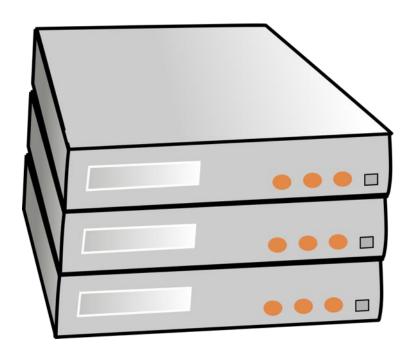
How do our employees learn?

- Customized training
- Use of courseware like NDG Linux courses
- Use of other learning modules online
- Interacting with other Linodians
- Lunch-and-learns & other knowledge-shares
- Books
- Just do it



linode Why Do Our Customers Like Linode?



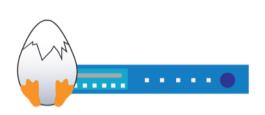




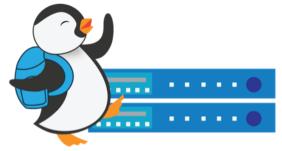
Why Do We Like Linode?

- Great benefits
- Great Vice Presidents
- Chance to work with leading edge technology
- Chance to "make a difference, not just fill a hole"
- Treated like a human being
- Egalitarian environment
- Generous environment
- Lots of opportunity

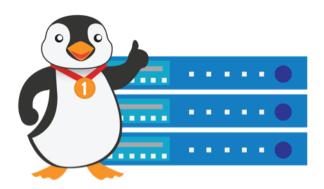
NDG Linux Courses Offered to Cisco Networking Academies



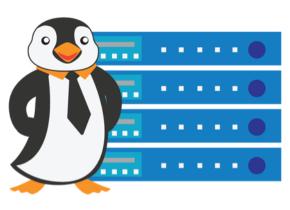




NDG Linux Essentials



NDG Linux 1



NDG Linux 2

Available in Networking Academy



Course Summary

Developed by: ND

NDG Introduction to Linux is a 2-course series for aspiring Linux system administrators. Develop proficiency in performing maintenance tasks on the command line, installing and configuring a computer running Linux, and configuring basic networking, using virtual machines running Linux.

- Introduction to Linux I, 70 hours, prepares you for certification Exam 101 and covers: system architecture, Linux installation and package management, GNU and UNIX commands, devices, Linux file systems, and file system hierarchy standards.
- Introduction to Linux II, 70 hours, prepares you for certification Exam 102 and covers: shells, scripting and data management, interfaces and desktops, administrative tasks, essential system services, networking fundamentals, and security.
- . Develop a working knowledge of the Linux command line.
- . Study with an instructor in the classroom or at your own pace. Access expert content online anytime.
- · Get immediate feedback on your knowledge through built-in quizzes and tests.
- . Connect with the global Cisco Networking Academy community.

Languages: English

Enroll Now

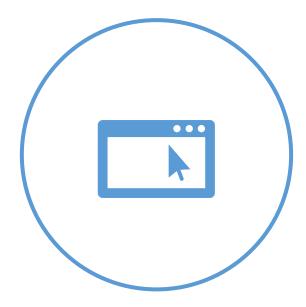
Easy to Use



Delivered on the Networking Academy learning platform



Lectures, content, labs, assessments, and classroom aids



Real command-line experience through NDG virtual terminal

Learn By Doing!

"I hear and I forget.

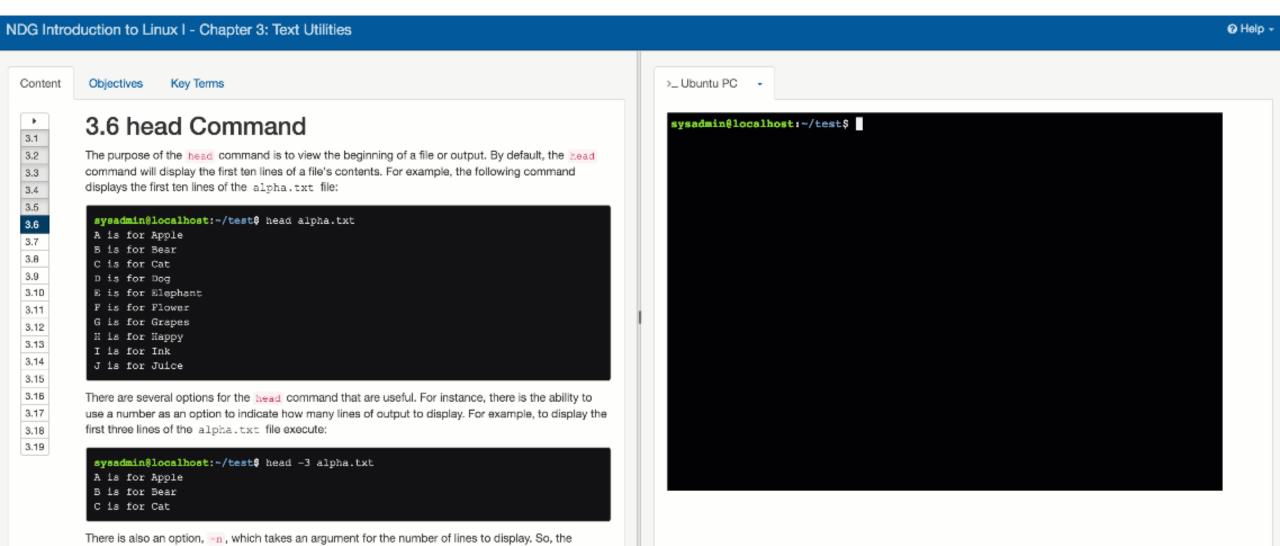
I see and I remember.

I do and I understand."

Confucius



Course Content with Virtual Machine



Easy to Get Started



No Special Training



No Lab Equipment



Free To Instructors

Economical

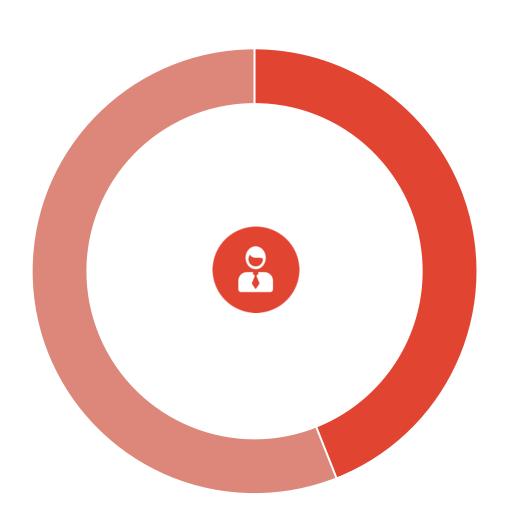
Course Title		Cost to Instructors	Cost to Students
NDG Linux Unhatched		FREE	FREE
NDG Linux Essentials		FREE	FREE
NDG Linux I		FREE	\$39.95*
NDG Linux II	9	FREE	\$39.95*

^{*} Paid by the learning institution or the individual student

Certifications Help Students Stand Out

COURSE TITLE	CERTIFICATION EXAM ALIGNMENT		
NDG Linux Unhatched	CompTIA A+ (Linux Knowledge)		
NDG Linux Essentials	Linux Essentials Professional Development Certificate		
NDG Linux Series	LPIC-1: Linux Server Professional Certification		
NDG LIIIux Series	CompTIA Linux+ Powered by LPI		

Certifications Help Students Stand Out



44% of hiring managers are more likely to hire a candidate with Linux certification.



Developing and Documenting your Linux Skills with Certifications

Who we are



- Our purpose is to enable economic and creative opportunities for everybody by making open source knowledge and skills certification universally accessible.
- Non-profit organization based in Canada. Our Affiliates provide local support around the world.
- Independent from vendors and Linux distributions.

How we serve the Linux and Open Source community



Linux Essentials LPI LE	LPI 101 LPI 102	LPI 201 LPI 202	LPI 300 LPI 303 LPI 304
More info	More info	More info	More info
Entry Level	Junior Level	Advanced Level	Senior Level / Specialty Areas
Certificate Program	Professional Certification	Professional Certification	Professional Certification
0-12 Months	1-2 Years	2-3 Years	3+ Years

Guidance in the Linux Jungle



- The flexibility of Linux is overwhelming
- Extending knowledge requires a plan
- LPI certification objectives
 - Describe the expectation for an exam
 - Point out what matters
 - Set the agenda for books and classes
 - Outcome from community consultation

Creating a Community Certification



- LPI has a large community of alumni, academic partners and experts
- Open certification development process:
 - Relevant exams require input and feedback from the whole Linux community
 - Exam topics are updated every 2.5 years
 - Objectives are based on community consultations and are discussed on a public mailing list
 - Alumni are encouraged to provide feedback to the certification development team
 - Public beta exams for quality assurance

Benefits of (LPI) Certifications



- An (LPI) certification ...
 - encompasses numerous qualifications and skills
 - affirms professional competencies as well as engagement in continuing education
 - represents a common standard in both content and quality
 - provides a great adjunct to a formal education and combined with a degree or diploma...
 - makes the best and most distinguishing credential!

How to get started?



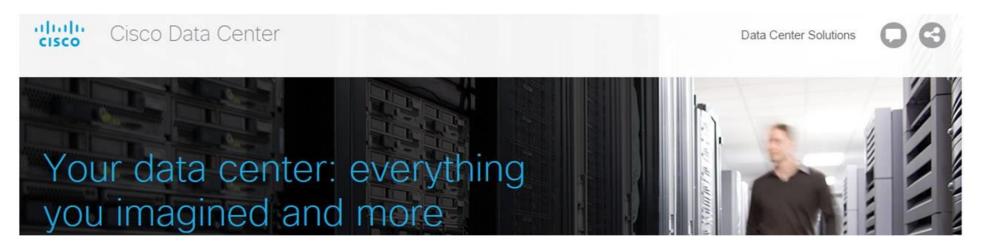
- Get your hands dirty!
 - Install Linux on a VM or a Raspberry Pi
 - NDG Linux Courses with VM
- Start using Linux!
 - Use Linux for as much of your daily work as you can
- Accomplish challenges NDG Linux courses
 - LPI objectives!
 - Cisco Networking Academy

Where to find help



- Find or create a community
 - Ask your teachers, professors, friends
 - Search for Meetups and Linux User Groups
 - Volunteer to provide services at your school, contribute to an FOSS project
- Get documentation
 - LPI objectives are the foundation for numerous books, websites and training offerings

Cisco TAC Support Engineer: Josh Good



- Supporting Linux customers
 - UCS Servers
 - Nexus Switches
 - Vblock and / or FlexPod
- Linux professional that provide solution support to the client
 - SAP Hana (Database) Red Hat or Suse Linux O/S

Linux Use

- Authentication services such as LDAP or Kerberos Authentication
- Administration SSH
- Automation puppet/chef/ansible/kickstart
- Monitoring nagios/zenoss/UCS Peformance Manager
- WebAPP Apache/nginx
- Databases Oracle/SAP
- Hardware Cisco Nexus Switches/Cisco UCS
- Mobile phones/tablets Apple IOS /Android OS
- Embedded devices FireTV/Chromecast

After 100 days of running data centers built on Cisco UCS servers, customers improved IT productivity by 30 to 50% and reduced project execution time by 75%, according to a recent study by Forrester Research. Business moves fast. You can move faster with Cisco UCS.

1. Go to http://netacad.com





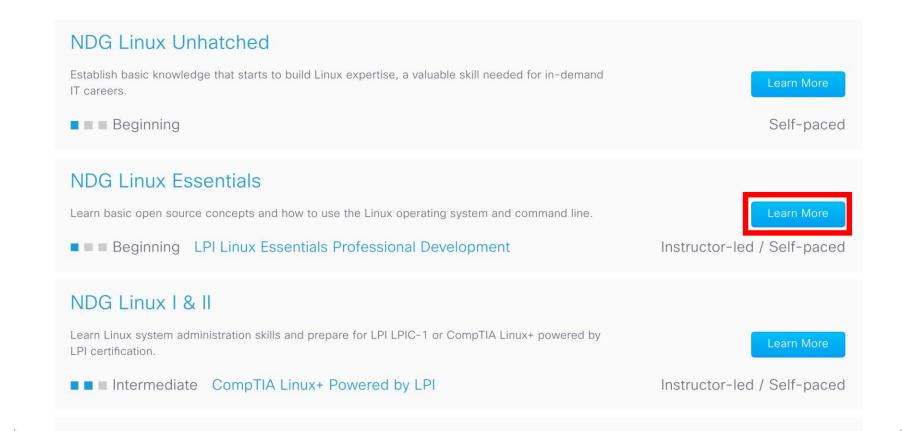
2. Click Courses





3. Choose Course

If you are not part of the Cisco Networking Academy, you can only enroll in Linux Essentials.



4. Click Enroll Now

Courses ▼ Careers ▼ Get Started ▼ About Us ▼

Home / Courses / NDG Linux Essentials

NDG Linux Essentials

Learn the basics of Linux, the world's most popular operating system, and expand your career opportunities in IT.





How To Access If you are part of Cisco Networking Academy...

5. Click Enroll in Course



Enroll in NDG Linux Essentials - 08/16

You are enrolling in NDG Linux Essentials - 08/16



View Privacy Policy 2









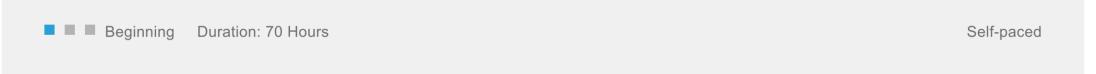






If you are NOT part of Cisco Networking Academy...

5. Fill out the **Sign Up Now** box.



Course Summary

NDG Linux Essentials is designed for learners who are beginning to build Linux knowledge for a career in IT. This is the self-paced course for students who are new to Cisco Networking Academy.

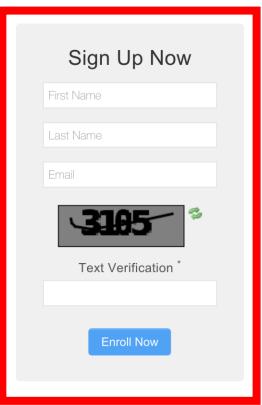
- · Learn basic open source concepts.
- · Understand how Linux is used and the basics of the command line.
- · Apply skills using Linux virtual machine with step-by-step and hands-on lab activities.
- Build foundational knowledge for progressively mastering Linux commands.
- · Connect with the global Cisco Networking Academy community.

Languages: English

After you sign up, check your email for a login to the Networking Academy web site and a link to your course.

Tips for Accessing Networking Academy

- Recommended browsers: Mozilla Firefox, Google Chrome.
- If you don't receive your email, check your spam folder.
- If you still can't find it, add noreply@netacad.com to your safe sender list and resend activation email.
- If you are locked out after too many attempts, try again in 10 to 15 minutes.



For more info visit: ndg.tech/linux1



Linux System Administrator

Salary Range: \$41,000 to \$105,000

41K 105k

National Average: \$67,000

Linux System Engineer

Salary Range: \$59,000 to \$118,000

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Q&A: Linux is a core skill for all IT professionals.



Career Advantage Webinars

Introduction to Linux Series





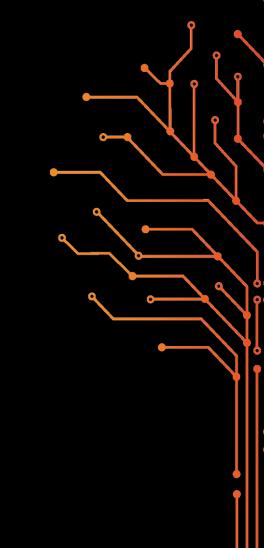
NEXT SESSION:

Linux in the Industry



16 November, 2016 – 8:00 A.M. PST

Register at: bit.ly/LinuxWeb



Interested in Joining Cisco Networking Academy?

- Go to netacad.com
- Scroll Down to
 Get Started
- Click Find an Academy
- Need Help?karsulli@cisco.com

Are you ready to change your life with Cisco Networking Academy?

Find an Academy

Get Started We're connecting millions of students, educators, and employers worldwide.



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Thank you.

CISCO Cisco Networking Academy
Mind Wide Open