

What do security systems, mobile devices
and supercomputers have in common?

They're powered by the
Linux operating system.

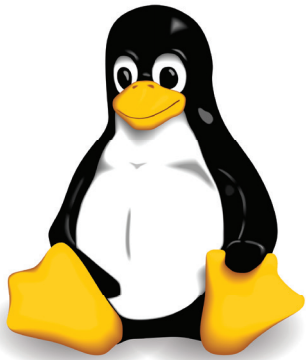
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Why IT professionals need a Linux credential ...

The 2014 Enterprise End Users Trends Report from the Linux Foundation found:



- Linux leads the enterprise shift to the cloud - 75% of enterprises report they use Linux as their primary cloud platform.
- 78% of enterprises feel Linux is more secure than most other operating systems.
- 87% of enterprises added Linux servers this year, 82% planning to add in 2015.
- **FINDING TRAINED LINUX TALENT IS THE LARGEST LINUX CONCERN CITED, MENTIONED BY 40% OF ENTERPRISES SURVEYED.**

Application strengths of Linux:

- Dominant cloud computing platform
- Dominant online server platform (e.g., Google search appliances)
- Preferred for software security, network intrusion detection
- Preferred platform for virtualization systems (VMWare, etc.)
- Preferred development environment, supports free development software (C, C++, python, perl, PHP, etc.)
- Preferred database platform, Big Data, SDS storage, SDN servers.
- Flexibility - Scalable, dominant in supercomputers and embedded systems (autonomous vehicle, etc.)
- Relatively low cost software - open source

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Linux / Unix Systems Certificate

Linux is a popular web server, file server and database hosting platform and is common in everything from mobile computing devices to large scale data center environments and supercomputers. This certificate helps prepare students to complete the Linux+ and LPIC-1 industry certifications.

Courses include:

Linux/UNIX I: Fundamentals (pre-requisite)

CIS 121 (4 credits)

This course introduces UNIX and Linux tools to the experienced computer user and to those with only a basic knowledge of computers. The course covers the UNIX/Linux files system, communication with other users, editors, file manipulation and processing, basics of pipes and redirection, simple shell programming, introduction to the X Windows system, and a basic introduction to Linux.

Linux/UNIX II: Basic System Administration, Networking and Security (co-requisite)

CIS 206 (4 credits)

This is the second of four courses on the Linux operating system. Linux System administration tasks are discussed and practiced. This course is designed to help prepare students for Linux Certification Exams. Students should be familiar with common Linux distributions and should be comfortable with basic installation and configuration to succeed in this course.

Linux/UNIX III: Intermediate System Administration, Networking and Security (co-requisite)

CIS 208 (4 credits)

This is the third of four courses on the Linux operating system. Linux networking theory is discussed and practical application of the theory is shown through lab exercises. Students should be familiar with common Linux distributions and comfortable with system administration activities to succeed in this course. This course is designed to prepare students for Linux Certification Exams.

Linux/UNIX III Programming and Scripting I (co-requisite)

CIS 221 (4 credits)

Students learn to use UNIX more efficiently with advanced forms of the commands and utilities building on the fundamentals of Linux/UNIX, as well as, new commands and constructs. Advanced forms of topics include sed, grep, awk, perl, and how to effectively use regular expressions, as well as, constructs and special commands used in writing shell scripts. New topics covered include functions, traps, arithmetic on variables and input/output techniques.

Associated Industry Certification: *Linux+, LPI-1, SUSE CLA*

Associated Job Title: *System Administrator*

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