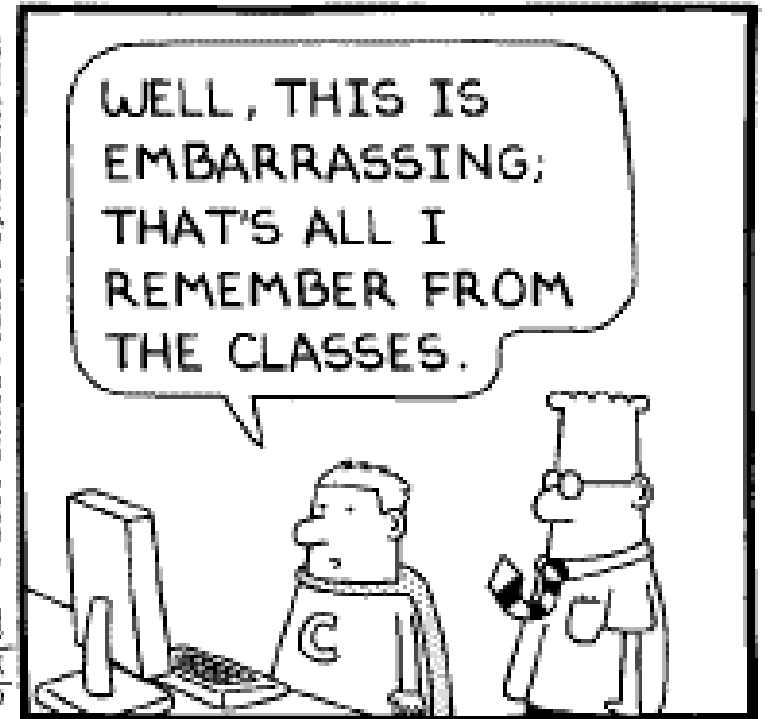
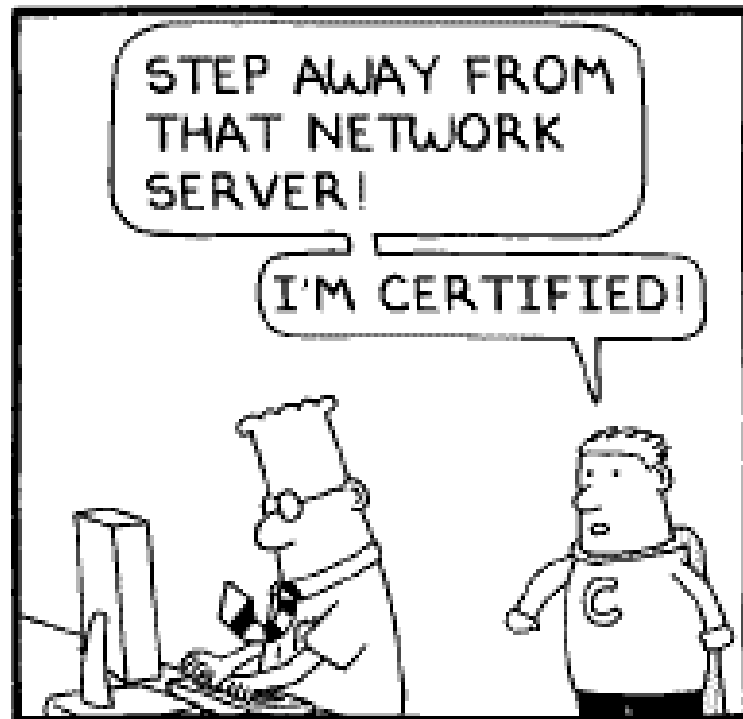




# Linux Certifications

Who, What, Why & How

Kevin Lane / August 18, 2015



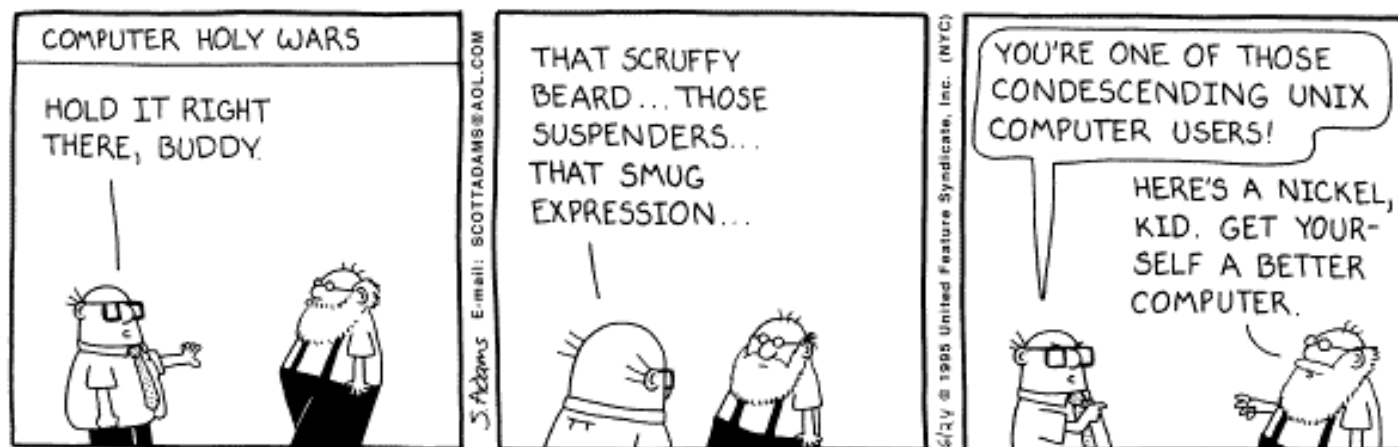
www.dilbert.com scottadam@aol.com

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# Linux Certification

- Why? (Many reasons for certification)
  - My Boss made me
    - Part of my yearly self-improvement/corporate training plan
  - Rack up as many different certifications as I can
    - (I like alphabet soup after my name)
  - I like to stay proficient, and certifications help to show progress
  - A way for me to “step-up” the company ladder
    - (promotion)



# Certification Vendors

- Red Hat Linux
- SuSE Linux
- Linux Professional Institute (LPIC)
- CompTIA
- Linux Foundation
- Oracle
- BSD - Berkeley Software Distribution



# Red Hat



# Certification Vendors – Red Hat



- Red Hat Linux

- Red Hat Certified System Administrator (RHCSA)
- Red Hat Certified Engineer (RHCE)
- Red Hat Certified Architect (RHCA)
- Red Hat CertifiedJBossAdministrator (RHCJA)
- Red Hat Certified Virtualization Administrator (RHCVA)



- Red Hat is the “certification of choice” for most companies, mostly due to the market presence of Red Hat in the public and private sector.
- For the Linux professional, you cannot go wrong with a Red Hat certification.
- Training is not required to take the exam, although highly recommended!
- Contacts @ Red Hat for training or certifications:
  - Lauren@redhat.com
  - Apenny@redhat.com

# Red Hat Linux



## Current certifications

Red Hat® Certified System Administrator (RHCSA)

Red Hat Certified Engineer (RHCE)

Red Hat Certified Architect (RHCA)

RHCA: Cloud

RHCA: Datacenter

RHCA: Application platform

RHCA: Enterprise application development

Red Hat Certified System Administrator in Red Hat OpenStack

Red Hat Certificate of Expertise in Hybrid Cloud Management

Red Hat Certificate of Expertise in Hybrid Cloud Storage

Red Hat Certificate of Expertise in Data Virtualization

Red Hat Certified Virtualization Administrator (RHCVA)

# Red Hat Linux



## Current certifications

Red Hat Certified JBoss® Developer (RHCJD)

Red Hat Certified JBoss Administrator (RHCJA)

Red Hat Certificate of Expertise in Business Rules

Red Hat Certificate of Expertise in Business Process Design

Red Hat Certificate of Expertise in Camel Development

Red Hat Certificate of Expertise in Clustering and Storage Management

Red Hat Certificate of Expertise in Deployment and Systems Management

Red Hat Certificate of Expertise in Persistence

Red Hat Certificate of Expertise in Platform-as-a-Service

Red Hat Certificate of Expertise in Server Hardening

Red Hat Certificate of Expertise in Performance Tuning

Red Hat Certificate of Expertise in Application Server Management



# Red Hat Linux



Certification Name	Exam Name
Red Hat Certified System Administrator (RHCSA)	EX200 - Red Hat Certified System Administrator (RHCSA) exam
Red Hat Certified Engineer (RHCE)	EX300 - Red Hat Certified Engineer (RHCE) exam
Red Hat Certified Virtualization Administrator (RHCVA)	EX318 - Red Hat Certified Virtualization Administrator (RHCVA) exam
Red Hat Certified JBoss Administrator (RHCJA)	EX248 - Red Hat Certified JBoss Administrator (RHCJA) exam

# Red Hat Linux



Certification Name	Exam Name
<p>Red Hat Certified Architect (RHCA) (must pass at least 5 of the exams to the right)</p> <ul style="list-style-type: none"><li>RHCA: Cloud</li><li>RHCA: Datacenter</li><li>RHCA: Application platform</li><li>RHCA: Enterprise application development</li></ul>	<p>To attain RHCA status, an RHCE must pass any 5 of the following exams:</p> <ul style="list-style-type: none"><li>EX210 – Red Hat Certified System Administrator in Red Hat OpenStack exam</li><li>EX220 – Red Hat Certificate of Expertise in Hybrid Cloud Management exam</li><li>EX236 – Red Hat Certificate of Expertise in Hybrid Cloud Storage exam</li><li>EX248 – Red Hat Certified JBoss Administrator exam</li><li>EX318 – Red Hat Certified Virtualization Administrator exam</li><li>EX401 – Red Hat Certificate of Expertise in Deployment and Systems Management exam</li><li>EX436 – Red Hat Certificate of Expertise in Clustering and Storage Management exam</li><li>EX442 – Red Hat Certificate of Expertise in Performance Tuning exam</li><li>EX413 – Red Hat Certificate of Expertise in Server Hardening exam</li><li>EX280 – Red Hat Certificate of Expertise in Platform-as-a-Service exam</li><li>EX450 – Red Hat Certificate of Expertise in Data Virtualization exam</li><li>EX297 – Red Hat Certificate of Expertise in Persistence exam</li><li>EX421 – Red Hat Certificate of Expertise in Camel Development exam</li><li>EX465 – Red Hat Certificate of Expertise in Business Rules exam</li><li>EX427 – Red Hat Certificate of Expertise in Business Process Design exam</li><li>EX234 – Red Hat Certificate of Expertise in Application Server Management exam</li></ul>

# SUSE



SUSE  
Linux Enterprise Server



# Certification Vendors - SuSE



- SuSE Linux
  - CLA – Certified Linux Administrator
    - As with all SUSE certifications, course work is never required. One needs only to pass a certification test in order to achieve the certification
  - CLP – Certified Linux Professional
    - The SUSE Practicum is a scenario based exam where students apply the knowledge they have learned to solve real-life problems
  - CLE – Certified Linux Engineer
    - The SUSE Practicum is a scenario based exam where students apply the knowledge they have learned to solve real-life problems

# SuSE Linux



Certification Name	Course Name	Exam Name
SUSE Certified Linux Administrator  (Note: Having the LPIC 1 certification qualifies you to receive the SUSE CLA11 certification)	SuSE Linux Enterprise 11 Fundamentals (3115) SuSE Linux Enterprise 11 Administration (3116)	CLP 050-720
SUSE Certified Linux Professional 11  Prerequisites: SUSE CLA 11, SUSE CLA 10, or SUSE CLP 10	SuSE Linux Enterprise 11 Server Administration (3117)	CLP 050-721
SUSE Certified Linux Engineer  Prerequisites: SUSE CLP 10 or SUSE CLP 11	SuSE Linux Enterprise Server 11 Certified Linux Engineer (3117)	CLP 050-723

# SUSE Linux



- Dual LPI & CLA Certification
- SUSE, Linux Professional Institute and CompTIA have teamed up to offer you the chance to earn three Linux certifications. The SUSE Certified Linux Administrator, the Linux Professional Institute LPIC-1 and CompTIA Linux Powered by LPI.
- Read the CompTIA press release and the Linux Professional Institute press release to learn more about their certifications.
- On February 9th, 2010 SUSE and the Linux Professional Institute announced an international partnership to standardize their entry-level Linux certification programs on LPIC-1. Under the terms of the agreement, all qualified LPIC-1 holders will have the opportunity to apply for SUSE CLA certification without additional exams or fees.

## LPI Certification Programs

Entry Level Certificate Program

### Linux Essentials

What: Ability to use basic command line editor and demonstrate and understanding of processes, programs and components of the Linux Operating System.

How: Pass the LPI 010 exam; 40 multiple-choice questions in 60 minutes



Multi-Level Professional Certification Program

### LPIC-1

What: Ability to perform maintenance tasks with the command line, install & configure a computer running Linux and be able to configure basic networking.

How: Pass LPI 101 & 102 exams; each exam is 60 multiple-choice and fill-in-the-blank questions in 90 minutes





## LPI Certification Programs

### LPIC-2

What: Ability to administer small to medium-sized mixed networks.

How: Pass LPI 201 & 202 exams; each exam is 60 multiple-choice and fill-in-the-blank questions in 90 minutes. Must also have active LPIC-1 certification.

### LPIC-3

What: Linux Enterprise architecture specialties.

How: Must have active LPIC-1 and LPIC-2 certifications and pass one LPIC-3 specialty exam:

300 – Mixed Environments

303 – Security

304 – Virtualization & High Availability





# Certification Vendors - LPIC



- Linux Professional Institute (LPIC)
- **CompTIA Partnership**
- In April 2010, CompTIA and LPI announced that CompTIA would phase out its Linux+ exam and instead adopt LPIC-1 exams as its entry-level certification program. This new CompTIA certification is called "CompTIA Linux+ powered by LPI" and uses the same two exams as LPIC-1 — and at the same price.
- **Get the 3-in-1 Advantage:**
- Curious to know how you can get three professional Linux certifications for the cost and effort of one?
- [Learn More](#)
- **To obtain your "3-in-1 Linux certification" simply:**
- [Obtain a LPI ID](#): (for the future also consider TCR registration and listing your other IT credentials with LPI)
- When taking your "CompTIA Linux+ powered by LPI" exams indicate that your exam scores may be forwarded to LPI
- Upon receipt of your LPIC-1 [apply online](#) for your SUSE CLA.
- Please note that the "3-in-1" process is not reciprocal (i.e. you can't do it the other way round) and is not available in Japan.

# CompTIA



Linux+

# Certification Vendors - CompTIA



- Linux Professional Institute (LPI)
- **CompTIA Partnership**



- Earn Linux+, powered by LPI, and receive 3 industry-recognized certifications
- By completing the CompTIA Linux+ powered by LPI certification, you can also automatically receive the LPI LPIC-1 and the SUSE Certified Linux Administrator (CLA) certifications. Earn three industry-recognized certifications for the cost, time, and effort of one!
- How:
  - Obtain an LPI ID.
  - Once you have passed both Linux+ exams, log into your CompTIA certification account, choose 'Demographics', then 'Settings'. On the Settings page check the box to have your information forwarded to LPI, then click Submit
  - Upon receipt of your LPIC-1 apply online for your SUSE CLA.
  - Please note that the "3-in-1" process is not reciprocal (i.e. you can't do it the other way round) and is not available in Japan.

# Certification Vendors - CompTIA



- CompTIA



- Linux+ - Powered by LPI
- Required exams Two exams required:
- LX0-103 and LX0-104 (launches March 30, 2015)
- OR
- LX0-101 and LX0-102 (retires Aug, 30, 2015)
- Number of questions 60 questions per exam
- Type of questions Multiple choice
- Length of test 90 minutes
- Recommended experience A+, Network+ and at least 12 months of Linux administration experience
- Passing score 500 (on a scale of 200-800)
- NOTE: Exams from different series cannot be combined. If you start with LX0-101, you MUST take LX0-102 to complete your certification. The same applies for the LX0-103 and LX0-104 series. The LX0-103 and LX0-104 series is an update to the LX0-101 and LX0-102 series.

# Linux Foundation



# Certification Vendors - LF



## LFCS – Linux Foundation Certified SysAdmin

### **Available Anytime, Anywhere**

Forget taking a trip to a testing center. You can take your certification exam from any computer, anywhere, at any time.

### **Performance-Based**

No multiple choice here. You're tested at the command line on the skills you use every day.

### **Distro-Flexible**

The Linux universe is defined by choice. Our exams reflect that diversity by allowing you to choose a distro to certify in

### **Up-to-Date**

Built using feedback from the Linux community, our exams will test you on things that actually matter in today's IT environment.

# Certification Vendors - LF

## Linux Foundation Certified System Administrator

Certification Exams are performance-based and Candidates will need to perform tasks or solve problems using the command line interface in their chosen Linux distribution. For exam security, Candidates are monitored by a proctor during the exam session via streaming audio, video, and screensharing feeds. The screensharing feed allows proctors to view candidates' desktops (including all monitors). The audio, video and screensharing feeds will be stored for a limited period of time in the event that there is a subsequent need for review.

Ubuntu 14.04



# Certification Vendors - LF



## Linux Foundation Certified System Administrator

The following choices of Linux distributions are offered for the Exam. Candidates will be prompted to select from one of these choices when registering for the Exam.

CentOS 7

openSUSE 13.1

Ubuntu 14.04



# Certification Vendors - LF



## Linux Foundation Certified Engineer

A Linux Foundation Certified Engineer (LFCE) possesses a wider range and greater depth of skills than the Linux Foundation Certified System Administrator (LFCS). Linux Foundation Certified Engineers are responsible for the design and implementation of system architecture. They provide an escalation path and serve as Subject Matter Experts (SMEs) for the next generation of system administration professionals.

# Certification Vendors - LF



## LinuxCon N.A. 2015 Event Special

As a special incentive for you to achieve your Linux Foundation Certification, the Linux Foundation is offering LinuxCon N.A. 2015 attendees \$125 discount on ANY Linux Foundation Certification product or bundle!

Just use the code CERTTALK125 when purchasing your product to receive the discount.

# Oracle



# Certification Vendors - Oracle



Oracle

## Associate Certification Path

### **STEP 1 - PASS THIS EXAM**

Oracle Linux 5 and 6 System Administration  
1Z0-100

**Oracle Certified Associate, Oracle Linux 5  
and 6 System Administrator**

## Professional Certification Path

### **STEP 1 - PRIOR CERTIFICATION**

*Oracle Certified Associate, Oracle Linux 5  
and 6 System Administrator*

### **STEP 2 - PASS THIS EXAM**

Oracle Linux 6 Advanced System  
Administration 1Z0-105

# BSD



# Certification Vendors - BSD



- BSD – Berkeley Software Distribution
  - BSDA – Berkeley Software Distribution Associate
    - The BSDA certification is designed to be an entry-level certification on BSD Unix systems administration. Testing candidates with a general Unix background and at least six months of work experience as a BSD systems administrator, or who wish to obtain employment as a BSD systems administrator, will benefit most from this certification. Human resource departments should consider the successful BSDA certified applicant to be knowledgeable in the daily maintenance of existing BSD systems under the direction and supervision of a more senior administrator.

# Certification Vendors - BSD



- BSD – Berkeley Software Distribution
  - BSDP – Berkeley Software Distribution Professional
    - The BSDP certification is designed to be an advanced certification for senior system administrators with at least three years of experience on BSD systems.
    - The successful BSDP candidate is able to demonstrate strong to expert skills in BSD Unix system administration. The successful candidate understands and uses both basic and advanced system administration commands demonstrating proficiency in eleven study domains.

**"Recruiters are in hot pursuit of Linux talent. As business continues its tectonic shift to an open source model, employers are hungrier than ever for skilled Linux professionals who can demonstrate their competencies."**

Linux Foundation, March 2015 Linux Jobs Report





# Thank you

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