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## Learn DevOps: Infrastructure Automation With Terraform

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Created by Edward Wasieleski Last updated 5/2019

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**What you'll learn**

- Understand, use and apply terraform
- Use terraform with AWS
- Be able to apply DevOps techniques using terraform
- Know when to use different features
- Use terraform with Packer to create custom images

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### Module Outline

IT Troubleshooting Methodology Fundamentals

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VIDEO

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Necessary skills for beginning Linux users. 8 H 38 M History of Linux Overview What is Linux Where is Linux Used What is Open Source Exploring Linux Distributions The Linux Family Tree Debian and Ubuntu RHEL and CentOS Installing Linux Selecting Compatible Hardware Installing Ubuntu Installing CentOS Common Desktop Applications Productivity Suites Web Browsers Image and Video Editing Using the Linux CLI Introduction to the Terminal Introduction to the Shell Getting Help with man Getting Help with info Installing Software with apt-get Installing Software with rpm Installing Software with yum Navigating the Linux Filesystem Creating Directories Copy, Move and Delete Files Linking Files Archiving Files with tar and gzip Archiving Files with zip Redirecting Command Output Building a Script Networking with Linux Basic Network Elements Configuring a Network Adapter Configuring Name Resolution Verifying Network Connectivity Linux System Security Managing User Accounts Using the Root User Account Managing User Groups Linux File Permissions Episode Description Transcript The Linux Essentials certification from the Linux Professional Institute is designed to showcase your foundational skills in working with the Linux operating system. Upon completing the course you will be familiarized with open source software, the Linux operating system and executing commands from the Linux command line. You will also gain foundational skills in Linux networking, security and administration. This course serves as a stepping stone to the LPIC-1 Linux Administrator certification. You're watching ITProTV. [MUSIC] >> Hello, and welcome to ITProTV. This is your Linux Essentials series. And this is a nice little overview for you to tell you about what this series is gonna be about. And let's start with who we are and why we're here. >> All right, well, I am Don Pezet, and I'm the subject-matter expert for this series. I've been working with Linux for over 20 years, quite a while. I have worked on it in commercial and hobbyist fashion. I have worked in the finance and insurance industries. And I hold a number of Linux certifications including CompTIA Linux+, as well as the, the Linux Essentials, LPIC-1, LPIC-2, and certifications like those. So I've worked with it quite a bit. And, I'm gonna take that knowledge and turn that into, well, our Linux Essentials, what it takes to get started. >> All right, well, I'm Aubri Spurgin, I will be the host in this series, and I'm learning along with you. So that's my goal really is to play the learner and ask those questions that you'll probably be asking throughout the series. >> Now we've got a lot to cover on this one, but the main thing that I wanna tackle right off the bat is what's in it for you, the viewer. When you watch this course, the goal is to take you from potentially knowing nothing about Linux, to having a basic level of proficiency with it. And that means that if you were to sit down in front of a computer running Linux, you wouldn't be lost and helpless, you'd be able to perform your basic day-to-day tasks and operating that. When people wanna learn Linux, one of the challenges is that here in this series. >> Speaking of goals, what are gonna be our goals throughout the course, and what are we going to be looking at, yeah? >> So, LPI, if you go to their website, they've published the exam objectives for this. I've got LPI's website pulled up right here. It's lpi.org. And if you pull up their exam objectives, they have them posted for the Linux Essentials Exam, which is Exam 010. The current version is 1.6. And you'll see where they list out the objectives. Now, there are a lot of objectives, and it can be a bit overwhelming. So, let me kind of summarize it a little bit, based on how we're gonna do it here in this series. We're gonna start off just learning a little bit about the history of Linux. What is it, right? Then we'll take a look at how to install Linux, because you kind of need to install it to use it. So we'll get a chance to see that, and not just one distro, we're gonna take a look at a couple of different distros that are really popular out there. Next, we'll move on to basic command line functionality. Graphical user interfaces are really nice. And when you move from Mac to Linux, or Windows to Linux, you'll find that the GUIs actually match up pretty well. So you can kind of stumble through that. But you can't stumble through the command line. So, we're gonna learn about a lot of common commands that are implemented and how you can use those to perform tasks. Then we'll take a look at networking, and how we can get our system communicating on the Internet, and with other computers on the network. And lastly, we'll talk about general Linux operations and troubleshooting. All of these are considered the basic skills, the essential skills that you need to operate Linux. >> All right, so this is a certification-based exam. What are gonna be our cert goals? >> All right, so obviously you wanna learn the topics that are laid out in the exam objectives. And we have those throughout our course. You'll have a chance to see and kind of learn each of those different topics. We do follow a slightly different order. We've reorganized it to make it a little easier to learn, makes a little more logical sense. But at the end of the day, we will cover every one of those objectives. Once you've learned the material and you're comfortable with it, you're ready to take the exam. And if we jump back over to LPI's web page, they publish the exam details right here. The exam is a multiple choice exam that you can take through Pearson VUE. And, basically it is just like most computer administrated exams. Now, you will want to check if you're outside of the United States to see how it's offered in your country, and they have pricing posted right on their website. One nice thing about this, is that the exam is a lifetime certification. Once you pass it, you have it for your whole life. You don't have to renew, although you are encouraged to move up to the LPIC-1 or higher certifications, because those show that you're ready to be a Linux Administrator, not just a user, not just somebody who can do basic operations, but do more advanced things. So you can find more information on the exam as well as where you can take it, and what that price will be, right on the lpi.org website. >> So, what about this course is going to be great for me, the learner? What's so exciting about it? >> All right, so, the first time I installed Linux was in 1992. >> Wow. [LAUGH] >> And, it was very, very early on when Linux was just really coming about. >> Mm-hm. >> And I remember how exciting it was for me to learn a new operating system, new ways to do things, and just see this kind of alternative to the systems I had been using before, it was a ton of fun to learn something new. And so I'm excited to impart that upon you all. I know Aubri, you use Mac's mostly. >> I do, yeah. >> But, you're proficient in Windows as well. >> Yeah. >> So, I think you'll have a chance to learn a lot of really neat things. And also, Linux can be a little intimidating. People think of it as Unix or these big mainframes and stuff. But once you see how you can perform operations in it, it's just a normal operating system. And so, I really enjoy that. Reaching out to people, and getting them just more comfortable with a great operating system. >> Well, there you have it. Linux Essentials. If this seems like a course for you, stay tuned, and we'll see you there. [MUSIC] >> Thank you for watching ITProTV. Instantly share code, notes, and snippets. You can't perform that action at this time. You signed in with another tab or window. Reload to refresh your session. You signed out in another tab or window. Reload to refresh your session. Hits: 57,494 Today, the Linux operating system is used in various types of devices from personal computers to supercomputers and mobile phones, but this platform has made significant progress in the server market and special applications (such as image processing and Web services) It's a great desktop marketplace. Linux desktop environments such as GNOME and KDE with a user interface such as Apple Macintosh and Microsoft Windows in addition to other environments, graphics and traditional Unix-like command line interface, provides. Although there are many Linux applications for graphic software, in many ways, private software is still far more popular. In fact, Linux can be installed on a variety of hardware, such as cell phones, tablets, routers, and game consoles. To desktop computers, large computers and supercomputers. In the course of training in CBT Nuggets Linux Tutorial Series offers key feature of this software application will learn powerful. Topics Education of Linux Beginner: - Introduction to Linux - what to install Linux should know installation - hardware considerations for installing Linux - installation of Linux - installing and updating software in Linux - Management Linux users - System and security file management - Network management in Linux - Basic principles in Linux - Configuring printers and file sharing services - Configuring files and related topics - Linux system maintenance and repair - Troubleshooting Problems with Linux - Hardware-Related Issues in Linux - And ... 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Troubleshooting Problems in a Linux System Part 3 17. Hardware Issues in Linux 18. More Hardware Issues in Linux Linux Intermediate to Advanced Development: This video training with Perry Pizzano covers Linux technology, including topics such as Linux kernel, shell scripts, and

