

DOWNLOAD PDF LINUX SERVER ADMINISTRATION TUTORIAL FOR BEGINNERS

Chapter 1 : A Linux server administration tutorial for beginners - Speaker Deck

Linux 1-day workshop contents ===== This workshop covers the basic technologies and practices necessary for administering a Linux server. No prior knowledge of Linux is assumed.

You can follow this tutorial to install iptables on both Fedora Workstation and Fedora Server. The firewalld is the default firewall in the Fedora 24 which is the latest release. According to the Percona Website Percona xtradb is designed to provide superior performance, scalability and instrumentation. In this tutorial we are going to learn how to disable SELinux in Fedora Linux. SELinux is there to make your Fedora server or workstation more secure. But SELinux some applications may not work properly with SELinux is Enabled. In Fedora we can disable SELinux permanently or temporarily. The wine is a software application which we can use to install Windows software on Fedora Linux. For this tutorial I am using Fedora Workstation 24, but you can use this method to install wine on any previous Fedora version, including Fedora 23 and Mozilla Firefox is the default web browser in Linux Mint, but if you want Google Chrome on Linux Mint, then it is very easy to install. To install Google Chrome on Linux Mint we will download the latest stable version and install with the GDebi software installer. Varnish cache is a great way to reduce your server load and improve the response time of your website. So you need a way to share files between your Linux server and the Microsoft Windows Operating System. The most common way to share files between Linux and Windows is to configure Linux as a File server using Samba server. In this tutorial we are going to learn how to install and configure the Samba server on CentOS 7. In CentOS 7 runlevels called as systemd targets. In this tutorial we are going to learn how to change runlevels in CentOS 7. Runlevels in CentOS 7 identified a little bit differently compared to previous version CentOS 6, even though the basic concept is still the same. In CentOS 7 runlevels are called as systemd targets. To run Python scripts in the Atom text editor, we need to install the script package. SELinux is there to make your CentOS 7 server more secure, but sometimes you may need to turn off SELinux anyway. First, we are going to download Atom. Then we can install the Atom text editor on Fedora 24 using the `dnf install` command. Opera is another popular web browser you can use in Fedora Linux. In this tutorial we are going to learn how to install Opera on Fedora 24 Workstation, but you can use this method to install Opera on previous Fedora releases, Fedora 23 and Using TeamViewer you can access your Fedora desktop from a remote computer, also you can connect to remote computers from your Fedora desktop through the TeamViewer Client. In this tutorial we are going to learn how to install TeamViewer on Fedora 24 Workstation. Mozilla Firefox is the default web browser in Fedora 24 Workstation. But many users like to use Google Chrome over Firefox as their default web browser in Linux. In this tutorial we are going to learn how to install Google Chrome on Fedora 24 Workstation. To add a user to the wheel group in CentOS 7 we can use either `usermod` or `gpasswd` command. While Apache is still the most commonly used web server, Nginx is a Lightweight Web Server design for the high-traffic websites. One method to install Nginx using the repository provides by the Nginx itself, another method is to use Fedora EPEL repository. And also we can install Nginx from the source. In this tutorial we are going to learn both methods. We can use either `shutdown` or `poweroff` command to shutdown Ubuntu Server from the terminal. The Ubuntu shutdown command requires a time parameter while `poweroff` command will power off the server immediately. So first install the EPEL repository for RHEL 7. We can install and use Red Hat 7 for free, but we cannot use their software repositories to install software without a Red Hat Linux subscription. How to Install Apache on Ubuntu Server Today we are going to install Atom editor in Ubuntu Linux. Atom IDE is very similar to Sublime 3 text, but Atom is a free open source editor while Sublime is not completely free. First, we are going to download Atom for Ubuntu, then we can install Atom using Ubuntu software center.

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Chapter 2 : The Complete Linux Administration Course Bundle! - JTDigital Courses

All topics related to 'linux-admin-tutorial-beginners-1' have extensively been covered in our course 'Linux Administration'. For more information, please write back to us at sales@calendrierdelascience.com

It starts sufficient number of instances of CGI to handle concurrent web requests. It also uses suexec to support different users with their own instances of PHP and improves web security. Apache can also handle ruby files through FastCGI. You can also install apache passenger and configure Apache to use it for serving ruby pages. Apache displays its version and the name of the operating system in errors as shown in below screenshot. A hacker can use this information to launch an attack using the publicly available vulnerabilities in the particular version of the server or OS. Restart apache services with following command. It is a third party module that detects Dos attack and prevents the attack from doing as much damage as it would do if left to run its course. It could be downloaded here. It also prevents the web server from brute force attacks. The value could be set anything from 0 to 2 GB i. Three directives available in apache config file i. Creating a log file. Specifying a custom format. Creating and formatting a log file. TransferLog directive is available in the apache configuration file and it rotates virtual host log files as per set parameters. You need JavaScript enabled to view it. You can enable them by editing the apache configuration file i. User-agent is the browser identification string. Combined Log generated by Apache: It needs to be specified in the virtual host section of the config file. You can see below mentioned virtual host configuration, generated log will be custom for that virtual host and the format will be combined. Configure your very first Production Web Sever 1. The Web Server must have a direct network connection and a staticIP address configured on it. It needs to have all the modules required for running web pages. It also needs to have a good Antivirus application configured and running for securing the Web Server from Malware or Virus attacks. If you have hundreds of domains to be hosted on your web server, you must have to implement limitations on file system quota for each domain, number of databases each domain can create, number of email accounts per domain etc. If your web server has been setup for shared hosting services, users on your web server needs to be restricted. Apache does not provide any such functionality and needs different third party applications, customization of OS to achieve this. If you are adding a new domain on your web server, it needs editing hundreds of configuration file to enable all features for the added domain. If one of the hosted domains requires different PHP setting than rest of the domains, implementing this in core Apache web server is very complex and needs customization of your web server in great extent. A production web server needs a firewall to block unwanted traffic that could cause high load on your server. A production web server requires several different applications like Email, FTP for file upload, Domain Name System for parked domains. So, one can say that managing a web server for multiple domains is very complex task and requires editing hundreds of configuration file, customizing each application to fulfill the desired result. Troubleshooting any miss configuration will be very difficult for beginners. The Solution using Cpanel or similar software Cpanel provide a graphical way of managing your web server. It is meant to provide mass hosting services that is easy to use and configure. It makes complex task easier, it provides many useful and easy to use web interfaces that perform common system administration tasks required to operate a web server. If you have to recompile your web server i. It provides a lot of scripts that fixes, install and troubleshoot common administrative tasks. It provides a backup and restore functionality eliminating the need to manually copy files to backup storage. If you are backing up your domain, cPanel will create a tar file that will contain document root folder, email accounts and mails, ftp accounts, databases, DNS records and other applications. It also provides a robust documentation, andhas a very big community of users where you could discuss and get solution of your issues. So, one can say that cPanel is a best application for managing your web server with required features. It provides you, easy to use interface for managing your domain and a mechanism to avoid complexity of managing core Web Server.

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Chapter 3 : Linux System Administration and Configuration

Writing this article and the list of command that needs to go with the article was a little cumbersome. We chose 20 commands with each article and hence gave a lot of thought for which command should be included and which should be excluded from the particular post.

As this is your first time connecting to it from that system, accept it. The purpose of this notification is to make you aware of any man-in-the-middle attacks. The next prompt will be for your password, enter it. The next step is to patch the server with any updates. The next step applies necessary updates. If you do not wish to have the patches applied directly, you can modify the second command by appending `-y` at the end `sudo apt-get upgrade -y`. This process may take some time depending on your server and the number of updates. If you are following this tutorial, you should still be logged in as root. Check your current hostname: Run this command first: The hostname can be used to differentiate between servers using names like panther and tiger. If you are a little lost, simply follow the steps and do not worry much as this is a one-time setting we are making. We can reboot the server or run the script for the hostname to take effect. A DNS server typically acts as a dictionary look-up to that translates hostnames johnghawi. Upon opening this file you can use nano , you will notice two entries. If your system has a permanent IP, you can use that instead. At first, it may seem straight forward before it gets confusing. The Alias column on the right is a name for the server, useful when referencing locally on the network. In that case, johnserver maps to hostname blog. Configure your server according to the table above. More than likely, if you are following this tutorial you may only need the first two lines, with the second one being just your domain and no subdomain. The last step is to either restart your server or the service itself using: You may wish to either use the local timezone or the timezone of the majority of your users. The correct timezone may be useful for reading logs. The `su` command stands for Substitute User. John will use his own password to elevate. The next step is critical. Remember, commands are case sensitive; `-g!` If successful, your new account is set up and has `sudo` capability. You should start using the new account by default. Congratulations, your new server is successfully set up! I will be adding Part 2 and linking to it from this article in a week or so outlining steps to harden your server from common attacks.

Chapter 4 : A Beginner's Comprehensive Guide to Ubuntu Server Setup ~ John Ghawi

This Linux Tutorial video will help you get started with Linux Administration. This Linux tutorial will also give you an introduction to the basic Linux commands so that you can start using the.

Chapter 5 : Apache Tutorials for Beginners

The most common way to share files between Linux and windows is to configure Linux as File server using Samba server. In this tutorial we are going to learn how to install and configure the samba server on CentOS 7.

Chapter 6 : 60 Commands of Linux : A Guide from Newbies to System Administrator

Hello Friends, Welcome to this exclusive edition "BEGINNER'S GUIDE FOR LINUX" by TecMint, this course module is specially designed and compiled for those beginners, who want to make their way into Linux learning process and do the best in today's IT organizations.

Chapter 7 : Linux Server Administration Tutorial For beginners – e Learning

This guide presents a collection of common issues and useful tips for Linux system administration. Whether you're new

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to system administration or have been maintaining systems for some time, we hope this collection of basic Linux commands will help you manage your system from the command line.

Chapter 8 : Linux server tutorials: How to add user to a group in Linux operating system

Tutorials for beginners or advanced learners. Check Linux System Administration community's reviews & comments. Windows Server Administration. Vim.

Chapter 9 : Linux Admin Tutorial

Get started with Linux, app development, server configuration, networking, and become a system administrator! (ratings) Course Ratings are calculated from individual students' ratings and a variety of other signals, like age of rating and reliability, to ensure that they reflect course quality fairly and accurately.