Continue Setup

By Nicholas Mueller

Sources used:

“How to install software packages in linux (using dnf & apt)”

<https://www.youtube.com/watch?v=jWUyahJcraI&list=WL&index=47&t=194s>

“What Happens If You Add a PPA on Debian?”

<https://www.youtube.com/watch?v=OmP7CeNpIgY&list=WL&index=53>

“Learn CentOS Part 11 - Installing and removing Packages”

<https://www.youtube.com/watch?v=KkztDf9CspE&list=WL&index=52&t=865s>

“Learn CentOS Part 12 - Software Repositories & Adding EPEL”

<https://www.youtube.com/watch?v=L9ky88zTca8&list=WL&index=51>

Check your repositories that are included by default on both servers, find out how you'd go about adding a repository, (both official and PPA) and make sure you can install programs.

**Debian Server**

Using the command below I can list the repositories in my Debian server.

The repositories are in the file system specifically in the /etc/apt/sources.list files.

Command: grep ^[^#] /etc/apt/sources.list /etc/apt/sources.list.d/\*

Text

Description automatically generated

To add a repository the command is: sudo add-apt-repository repository name.

A PPA or personal package archive is a third party repository, from what I have researched they were created specifically for Ubuntu distros. Ubuntu is based on Debian but installing a PPA on my Debian server could cause problems or even break the server, so I won’t be doing that.

Install Tmux, emacs, and Fail2Ban. Make sure you look through the Fail2Ban settings as you do the install.

Note for the Debian installs I realized later that as root I didn’t need the sudo as part of my command I just did out of habit.

Tmux installed 10/27/2021

Command: sudo apt-get install tmux

Text

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Emacs installed 10/27/2021

Command: sudo apt-get emacs

Text

Description automatically generated

Fail2Ban installed 10/27/2021

None of the default settings were changed.

Command: sudo apt-get install fail2ban

Shown below is the output of the command.

Text

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Just for fun, install cowsay and lolcat. (Yes I know these are silly, the point is that i know they aren't there already.)

Cowsay installed 10/27/2021

Command: sudo apt-get cowsay

Text

Description automatically generated

Lolcat installed 10/27/2021

Command: sudo apt-get lolcat

Text

Description automatically generated

Update VI to vim, update your servers if it's needed.

Vim update command output shown on next page.

Vim installed 10/27/2021

Command: sudo apt-get install vim

Text

Description automatically generated

Update to the apt

Apt updated 10/27/2021

Command: sudo apt update

Text

Description automatically generated

**Centos8 server**

To list my repositories on Centos I use the command: dnf repolist

Text

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To add a repository the command is: dnf install repositoryname-release

Where repositoryname is the repository to be installed.

Update repositories

Command: dnf update Installed 10/29/2021

Graphical user interface, text

Description automatically generated

Text

Description automatically generated

Emacs Installed 10/29/2021

Text

Description automatically generated

Text

Description automatically generated

Tmux Installed 10/29/2021

Text

Description automatically generated

Text

Description automatically generated

Epel-repository Installed 10/29/2021

For fail2ban first we need to install the epel-release repository.

Text

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Text

Description automatically generated

Fail2ban Installed 10/29/2021

Graphical user interface, text

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Text

Description automatically generated

Cowsay Installed 10/29/2021

Text

Description automatically generated

Text

Description automatically generated

For lolcat I followed instructions from website below

<https://www.tecmint.com/lolcat-command-to-output-rainbow-of-colors-in-linux-terminal/>

Lolcat is a gem in ruby, so we need to download ruby

Then we need to use the command: wget https://github.com/busyloop/lolcat/archive/master.zip

Now I must upzip the master.zip file, in Centos 8 I use the graphical interface to extract to my home directory.

I go into the lolcat-master/bin file with the command: cd lolcat-master/bin

Next I enter the command: gem install lolcat most of the process is documented in the screenshots.

Text

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Ruby is installed 10/29/21

Text

Description automatically generated

Now is use the wget command to download a zip file with lolcat.

Text

Description automatically generated

I use the GUI to extract the zip file then I go into the master file with cd and I use the

Command: gem install lolcat

Text

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Lolcat Installed 10/29/2021

Vim is already installed on the Centos Server.

Text

Description automatically generated

Text

Description automatically generated

Summary:

Debian installs

All requested programs installed

Apt update run

No changes were made to program settings and no repositories needed to be added.

Centos installs

All requested programs installed

Dnf update run

Repositories added: Epel-release and Ruby (for lolcat)