**Documentation continue setup in Centos**

**Brayan Rosario**

**CIS-245**

**LINUX ADMINISTRATION**

**The first thing we need to know before continue installing in our server is how to set up our server, to make sure you have all the privileges to install all the programs you will be required to add an username with the (wheel) which is the one that can be use by default with centos that contain the sudo permission.**

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**To install the Tmux**

**We are going to use the following commands to make this work.**

**Sudo: which allow you to run the programs with the security privileges.**

**Yum: is a free and open-source command-line packages-management utility for computer running Linux.**

**Install: is a command to copy file and set attributes depending on their distribution.**

**I run my command like this:**

**Sudo yum install tmux**

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**Install emacs**

**to install the emacs we are going to use almost the same commands but for this one we are going to add an additional one.**

**Sudo: which allow you to run the programs with the security privileges.**

**Yum: is a free and open-source command-line packages-management utility for computer running Linux.**

**Install: is a command to copy file and set attributes depending on their distribution.**

**-y: this option will accepts the approval prompt, and you will see everything downloaded and complete.**

**Sudo yum install emacs -y**

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**Install Fail2ban.**

**to install the fail2ban we are going to use the same commands we are using until this moment first we have to install epel-release because if we do not install this first will be impossible to install the fail2ban.**

**To install the epel-release I used the same commands.**

**Sudo: which allow you to run the programs with the security privileges.**

**Yum: is a free and open-source command-line packages-management utility for computer running Linux.**

**Install: is a command to copy file and set attributes depending on their distribution.**

**-y: this option will accepts the approval prompt, and you will see everything downloaded and complete.**

**Epel-release: following by the acronym Extra Packages for Enterprise Linux (epel) is an open-source and free community based repository project from fedora team which provide 100% high quality add-on software packages.**

**This is how I run it**

**Sudo yum install epel-release -y**

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**After you complete the process of installation for the epel-release your process to install the fail2ban using the same commands for the installation.**

**Sudo yum install fail2ban -y**

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**After your finish with the installation of the fail2ban, this packages is turning off we have to turn this on and enable it to do that you will use the command (SYSTEMCTL).**

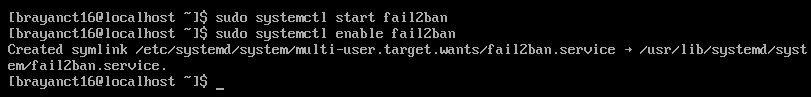
**Systemctl is a command with the utility which is responsible for examining and controlling the systemd system and service manager.**

**To start the systemctl we run this command**

**Sudo systemctl start fail2ban**

**To enable it we have to run this command**

**Sudo systemctl enable fail2ban**

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**Install cowsay**

**Cowsay is a program that generate ASCII pictures of a cow with a message.**

**To install it we have to use the same commands for the installation.**

**Sudo: which allow you to run the programs with the security privileges.**

**Yum: is a free and open-source command-line packages-management utility for computer running Linux.**

**Install: is a command to copy file and set attributes depending on their distribution.**

**-y: this option will accept the approval prompt, and you will see everything downloaded and complete.**

**Sudo yum install cowsay -y**

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**After you finish with the installation of the cowsay we have to test it to see if our installation works properly.**

**For that we are going to use:**

**Cowsay test.**

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**Install lolcat**

**To install the lolcat we have to install the ruby first because lolcat can’t be found with yum.**

**We run the commands like this.**

**To install it we have to use the same commands for the installation.**

**Sudo: which allow you to run the programs with the security privileges.**

**Yum: is a free and open-source command-line packages-management utility for computer running Linux.**

**Install: is a command to copy file and set attributes depending on their distribution.**

**-y: this option will accept the approval prompt, and you will see everything downloaded and complete.**

**Ruby: is a programming language that can be used to perform tasks that would be difficult or cumbersome on the command line.**

**I run my command like this.**

**Sudo yum install ruby -y**

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**Then we have to download the lolcat zip file using wget**

**We have to make this path in order for us to do that.**

**Wget htt://github.com/busyloop/lolcat/archive/master.zip**

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**After you finish running the path we have to extract, install and run lolcat.**

**For that we are going to use the unzip master.zip.**

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**And then we are going to be in the lolcat master bin to allow our serve to have the ability to get the program installed.**

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**Then after that we are going to install the lolcat using gem.**

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**After that we are going to test it if it works, if everything is fine the cow will comes out with colors**

**For that we are going to use the pipe which allow the program to run two things at the same time.**

**Cowsay test | lolcat**

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**Update the servers if needed**

**For this to happen we are going to update the server using the upgrade for that we are going to run this like this.**

**Sudo yum update && sudo yum upgrade**

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**To get a list of all the repos that could be obtained you just have to run this command.**

**Yum repolist.**

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**All the files can be located, and we have an option to find where they are and for this we are going to the command which.**

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**To get additional information on our installed packages we have a tool that can do that work for us which is RPM**

**The RPM is a packages manager and an open packaging system which runs on Red Hat enterprise in Linux.**

**For this we are going to also use the grep command and the pipe to search for every one of the packages already installed.**

**With this we can check the last time day and the hours we packages was using or running on the server.**

**For this I run the command like this.**

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**As we can see in the lolcat command is not showing anything because is not installing even when we use yum.**