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**Subject: Continue Setup**

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**Hello! This is a guide to continue the set up on you CentOS servers.**

**What is yum?**

**yum: Yellowdog Updater, Modified. It allows users to install, update and remove software packages.**

1. **Before installing any software into the system, it is important to update the server first.** In my case I used the command **su –** to become root**.**

**Texto

Descripción generada automáticamente**

**Important! Type the password.**

1. **sudo yum update: We must run the command line in administrator mode to update the system.**

**Imagen que contiene texto

Descripción generada automáticamente**

**Texto

Descripción generada automáticamente**

On this screen we type the word **“y”** which means **“Yes”** to update the system.

Texto

Descripción generada automáticamente

**Once this is completed, we can start the software installation.**

**Installing Tmux**

**What is Tmux?**

**Tmux is an open-source terminal multiplexer for Unix-like operating systems.**

**The command to install Tmux is sudo yum install tmux**

**Texto

Descripción generada automáticamente**

we type “**y**” to download the package.

**Imagen que contiene Texto

Descripción generada automáticamente**

**Tmux is installed in this server.**

**Installing emacs**

**What is emacs?**

**When you open a file with emacs, you can just start typing and issue commands at the same time. Command functions in emacs usually involve two or three keys.**

**The command to install emacs is sudo yum install emacs**

**Texto

Descripción generada automáticamente**

we type “**y**” to download the package.

Texto

Descripción generada automáticamente

**Now emacs is installed in this server**

**Installing Fail2ban**

**Fail2ban is not available in the CentOS package and for that reason we must install EPEL repository first.**

**What is EPEL?** **Extra package for Enterprise Linux. It was created and hosted by the Fedora Community project for the purpose that others distribution of Linux has access to package that was not available on the default operating system package.**

**Important note**: **If for some reason you closed the terminal you need to go root again.** To install EPEL, we must log in to the server as root user. The command line to enter or enable root is “**su –** “. It will ask for the user’s password. Once we log in as the root, we can start the process to install EPEL.

**The command to install EPEL is yum install epel-release:** Command line to install EPEL.

Texto

Descripción generada automáticamentewe type “**y**” to download and install the software.

Texto

Descripción generada automáticamente

**Now the EPEL package is installed.**

**What is fail2ban?**

**Fail2Ban is an intrusion prevention software framework that protects computer servers from brute-force attacks.**

**The command to install fail2ban is sudo yum install fail2ban fail2ban-systemd**

Texto

Descripción generada automáticamente

we type “**y**” to download and install fail2ban.

**Texto

Descripción generada automáticamente**

we type **“y”** once again to continue.

**Texto

Descripción generada automáticamente**

**Fail2ban is now installed in the server.**

**Installing Cowsay**

**What is cowsay? Is a program that generates ASCII art pictures of a cow with a message.**

**The command is sudo yum install cowsay**

**Texto

Descripción generada automáticamente**

we type “**y**” to install the package.

**Texto

Descripción generada automáticamente**

**Cowsay is now installed in the server.**

**Installing lolcat**

**Important note:** **In the yum package “lolcat” is name as “ruby”**

**What is lolcat? Lolcat is a utility for Linux, BSD and OSX which concatenates like cat command and adds rainbow coloring to it.**

**The command is** **sudo yum install ruby**

**Texto

Descripción generada automáticamente**

we press “**y**” to proceed with the installation.

**Texto

Descripción generada automáticamente**

**Now lolcat is installed.**

**Updating VI to Vim**

**What is Vim?** **As we know VI is the standard text editor used in Linux. Vim is a clone of Vi or a new version that includes visual mode, mouse support and new editing commands.**

Type “**vim**”in the command line to see if vim is already installed on the server.

Texto

Descripción generada automáticamente

**As we can see vin is already installed on my server. If you do not have vim installed on your server, run the following commands.**

**sudo yum install vim-enhanced -y**

**rpm -ql <filename>:** **To find the location of a file that was installed with yum**

**Texto

Descripción generada automáticamente**

**Texto

Descripción generada automáticamente**

**yum updateinfo <filename>:** **It shows the last time the package was updated**

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**Important information: Just in case. There are a few commands to check the repos.**

**The command is dnf repository-packages epel list. This command list all the repos from epel.**

**Texto

Descripción generada automáticamente**

**Important notice 2: If you want to add something from the epel list there is a useful command. This list is huge.**

**dnf –enablerepo=”epel” install <pkg\_name>**

**Texto

Descripción generada automáticamente con confianza baja**

**I wanted to see what I had installed with yum as well.**

**sudo yum list installed**

**Texto

Descripción generada automáticamente**

**Texto

Descripción generada automáticamente**

**Also, the repo list**

**Yum repolist**

**Imagen que contiene Texto

Descripción generada automáticamente**