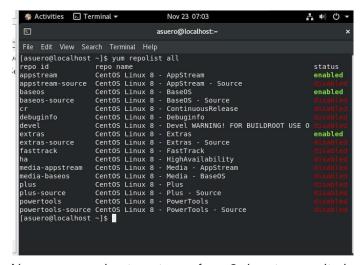
# Continue my system set up - Centos

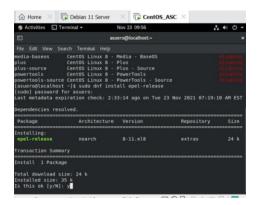
**Note:** Remember that to do any installation on a Linux system you will run as a root or have root privileges.

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

To check the repositories included by default on your CentOs server you must type the following command: **yum repolist all**. By typing this command, you see all the disabled and the enabled repositories.

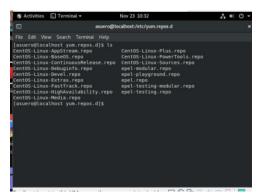


Now we are going to get repo from 3rd party repositories, not CentOS, let say we want to install the epel repository, so we must use the following command **sudo dnf install epel-release**, later it will ask you to confirm the installation, type **y** for yes



## Where my repositories lives?

Type the following command to enter the directory where your repositories are, **cd /etc/yum.repos.d** later do a **ls** to show all the information in this directory.



Let's try to **edit** the first repository, type **nano CentOS**-**LinuxAppStream.repo**, on there you will see the configuration of this repo and you will be able to edit it.



-To add a new repository, you will need to type any of the following commands **sudo dnf install name of the repository or repository link** or **sudo yum install Package name.** Let's do some installations.

**Installation on CentOS Server:** 

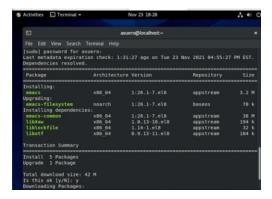
#### **Tmux**

Type the following command to install tmux on your server sudo yum install tmux



#### **Emacs**

Type the following command to install emacs on your server sudo yum install emacs, then you will be asked y/n to confirm.



Later, wait until the installation is completed.

#### Fail2Ban

Type the following command to install Fail2Ban on your server, sudo yum install Fail2Ban, then you will be asked y/n to confirm type y for yes. And again, it will ask you for another confirmation about your installation, type y for yes.

I already installed the epel-release. Without installing this repower can not install Fail2Ban.

```
| Section | Sect
```

#### Cowsay

Type the following command to install cowsay on your server, sudo yum install cowsay, then you will be asked y/n to confirm type y for yes.

```
Activities Terminal - Nov 23 22:32

Activities Terminal Help

Total download size: 47 k

Installed size: 77 k

Installed size: 77 k

Installed gracing Packages: coway-3.04-16.el8.noarch

Total

Transaction check Transaction check

Transaction check Secceded.

Running transaction test

Transaction test succeeded.

Running transaction

Preparing : coway-3.04-16.el8.noarch

Installing : coway-3.04-16.el8.noarch

Installed products updated.

Installed products updated.

Installed succeeded.

Coway-3.04-16.el8.noarch

Installed products updated.

Installed coway-3.04-16.el8.noarch

Complete!

Issuero@localhost - 15

Issuero@localhost - 15

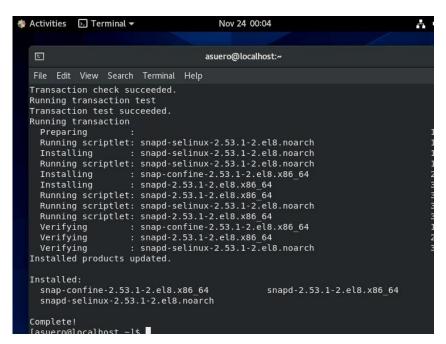
Issuero@localhost - 15

Issuero@localhost - 15

Issuero@localhost - 15
```

#### Lolcat

To install Lolcat you need to install and extra package first. the **snapd** package first. To install snapd type the following command, **sudo yum install snapd** 



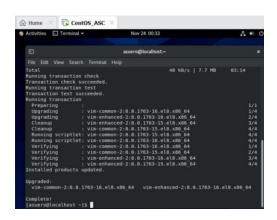
Later, please install the systemctl unit, this one provides the main communication of snapd. Type the following command to install the systemctl unit sudo systemctl enable --now snapd.socket

Later, **reboot** your system to update the changes.

Now, you can install lolcat type this command to do that **sudo**snap install lolcat

### Update or install vi to vim

Mow, to update vim we just type the following command **sudo yum install vi** 



Any updates and dependencies that needed to be done or changed and the dates that you did this.

n/a

Anything you've turned on/off should be included as well, don't forget the dates.

I enable snapd.

For Fail2ban make sure you note what you've changed (if anything) and why you made that change.

I installed epel

#### Showing my installed applications.

Type this command to see your installed apps. sudo yum history

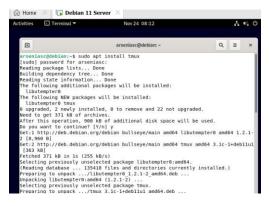
[asuero@localhost ~]\$ yum histor		
ID   Command line	Date and time   Action(s)	Altered
19   -y install libvirt qemu-k 18   install -y kubelet kubead	2021-12-10 01:04   Install	31   10
17   install docker-cenobes 16   install -y yum-utils	2021-12-09 23:36   E, I, O   2021-12-09 22:04   Install	12   1
15   update 14   install sendEmail	2021-12-09 21:47   I, O, U   2021-12-05 23:27   Install	534 EE   3
13   install lynis 12	2021-12-04 19:43   Install   2021-12-03 21:24   Install	1
11	2021-12-03 21:22   Install	1
10   install snapd 9   install nload	2021-12-02 16:39   Upgrade   2021-11-30 00:50   Install	5   1
8   install vim 7   install snapd	2021-11-24 00:33   Upgrade   2021-11-24 00:03   Install	2   3
6   install cowsay 5   install fail2ban	2021-11-23 22:27   Install   2021-11-23 22:22   Install	1   6
4   install emacs 3   install epel-release	2021-11-23 18:33   I, U   2021-11-23 09:57   Install	•
2   update 1	2021-10-23 14:10   I, U	
[asuero@localhost ~]\$	2021-09-22 19:20   Install	1400 EE



#### **Installations:**

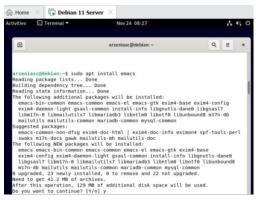
#### **Tmux**

Type the following command to install tmux on your server, **sudo apt install tmux**, then you will be asked y/n to confirm type **y** for yes.



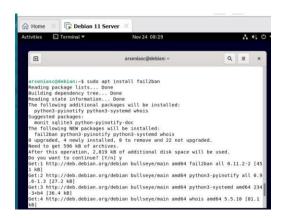
#### **Emacs**

Type the following command to install emacs on your server, sudo apt install emacs, then you will be asked y/n to confirm type y for yes.



#### Fail2ban

Type the following command to install Fail2Ban on your server, sudo apt install fail2ban, then you will be asked y/n to confirm type y for yes.



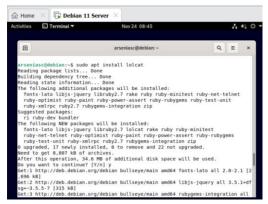
#### Cowsay

Type the following command to install cowsay on your server, sudo apt install cowsay, then you will be asked y/n to confirm type y for yes.

```
arseniasc@debian:-5 sudo apt install cowsay
Reading package Lists... Done
Building dependency tree... Done
Building dependency tree... Done
Reading state information... Done
Suggested packages:
The following NEW packages will be installed:
cowsay
8 uppraded, 1 newly installed, 0 to remove and 22 not upgraded.
Need to get 21.4 kB of archives.
After this operation, 94.2 kB of additional disk space will be used.
6ct: inttp://deb.debian.org/debian builseye/main amm64 cowsay all 3.03=dfsg2-8 [
114 kB in 8s (43.6 kB/s)
12.4 kB in 8s (43.6 kB/s)
12.4 kB in 8s (43.6 kB/s)
12.5 electring previously unselected package cowsay.
(Reading database ... 141088 files and directories currently installed.)
Preparing to unpack .../cossay 3.03=dfsg2-8 all.deb ...
Setting up cowsay (3.03=dfsg2-8) ...
Setting up cowsay (3.03=dfsg2-8) ...
Processing triggers for man-db (2.9.4-2) ...
**reenlast@debian:-5 |
```

#### **Lolcat**

Type the following command to install lolcat on your server, sudo apt install lolcat, then you will be asked y/n to confirm type y for yes.



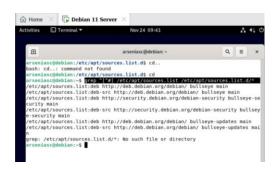
A short document showing where your repos live on both servers as well as how to add/modify a repo or PPA.

To modify a repo, type the following command sudo nano /etc/apt/sources.list To add a repository, you must type the following command apt-add-

#### repository repository link

#### **Repository storage**

To see where my repo lives, enter to the following directory grep ^[^#] /etc/apt/sources.list /etc/apt/sources.list.d/\*



Any updates and dependencies that needed to be done or changed and the dates that you did this. Anything you've turned on/off should be included as well, don't forget the dates.

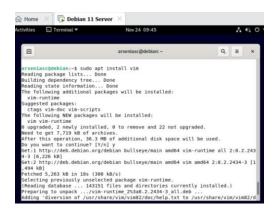
I did not need any updates to install the programs

For Fail2ban make sure you note what you've changed (if anything) and why you made that change.

I just installed the application I did not required anything else.

#### Vim installation

#### Type the following command to install vim sudo apt install vim



#### Showing my installed applications.

# To see you installed application on Debian type the following grep "install "/var/log/dpkg.log

```
2021-12-01 21:47:29 install squashfs-tools:amd64 <none> 1:4.4-2+deb11u2
2021-12-01 21:47:29 install snapd:amd64 <none> 2.49-1+b5
2021-12-02 20:10:00 install rsync:amd64 <none> 3.2.3-4+deb11u1
2021-12-06 19:59:18 install lynis:all <none> 3.0.2-1
2021-12-06 19:59:18 install menu:amd64 <none> 2.1.48
2021-12-06 20:27:45 install liberror-perl:all <none> 0.17029-1
2021-12-06 20:27:45 install git-man:all <none> 1:2.30.2-1
2021-12-06 20:27:45 install git:amd64 <none> 1:2.30.2-1
2021-12-06 20:27:45 install patch:amd64 <none> 2.7.6-7
2021-12-06 22:19:56 install linux-image-5.10.0-9-amd64:amd64 <none> 5.10.70-1
2021-12-06 22:45:43 install libpam-pwquality:amd64 <none> 1.4.4-1
2021-12-06 23:58:29 install sysstat:amd64 <none> 12.5.2-2
2021-12-08 10:55:49 install wmdocker:amd64 <none> 1.5-2
2021-12-08 10:55:49 install docker:all <none> 1.5-2
2021-12-08 14:03:05 install apt-transport-https:all <none> 2.2.4
2021-12-08 14:03:05 install curl:amd64 <none> 7.74.0-1.3+b1
2021-12-08 14:28:33 install countrack:amd64 <none> 1:1.4.6-2
2021-12-08 14:28:33 install cri-tools:amd64 <none> 1.19.0-00
2021-12-08 14:28:33 install ebtables:amd64 <none> 2.0.11-4+b1
2021-12-08 14:28:34 install kubernetes-cni:amd64 <none> 0.8.7-00
2021-12-08 14:28:35 install socat:amd64 <none> 1.7.4.1-3
2021-12-08 14:28:35 install kubelet:amd64 <none> 1.23.0-00
2021-12-08 14:28:37 install kubectl:amd64 <none> 1.23.0-00
2021-12-08 14:28:38 install kubeadm:amd64 <none> 1.23.0-00
2021-12-08 17:51:20 install minikube:amd64 <none> 1.24.0-0
```

```
2021-12-08 19:03:12 install gnupg2:all <none> 2.2.27-2
2021-12-08 19:06:32 install pigz:amd64 <none> 2.6-1
2021-12-08 19:06:32 install containerd.io:amd64 <none> 1.4.12-1
2021-12-08 19:06:35 install docker-ce-cli:amd64 <none> 5:20.10.11~3-0~debian-buster
2021-12-08 19:06:39 install docker-ce:amd64 <none> 5:20.10.11~3-0~debian-buster
2021-12-08 19:06:42 install docker-ce-rootless-extras:amd64 <none> 5:20.10.11~3-0~debian-buster
2021-12-08 19:06:43 install docker-scan-plugin:amd64 <none> 0.9.0~debian-buster
2021-12-08 19:06:44 install libslirp0:amd64 <none> 4.4.0-1+deb11u2
2021-12-08 19:06:44 install slirp4netns:amd64 <none> 1.0.1-2
2021-12-08 19:47:38 install uidmap:amd64 <none> 1:4.8.1-1
2021-12-08 23:10:55 install python3-cffi-backend:amd64 <none> 1.14.5-1
2021-12-08 23:10:55 install python3-cryptography:amd64 <none> 3.3.2-1
2021-12-08 23:10:55 install python3-jinja2:all <none> 2.11.3-1
2021-12-08 23:10:55 install python3-pyparsing:all <none> 2.4.7-1
2021-12-08 23:10:55 install python3-packaging:all <none> 20.9-2
2021-12-08 23:10:55 install python3-yaml:amd64 <none> 5.3.1-5
2021-12-08 23:10:56 install python3-pycryptodome:amd64 <none> 3.9.7+dfsg1-1+b2
2021-12-08 23:10:57 install python3-lib2to3:all <none> 3.9.2-1
2021-12-08 23:10:57 install python3-distutils:all <none> 3.9.2-1
2021-12-08 23:10:57 install python3-dnspython:all <none> 2.0.0-1
2021-12-08 23:10:57 install ieee-data:all <none> 20210605.1
2021-12-08 23:10:57 install python3-netaddr:all <none> 0.7.19-5
2021-12-08 23:10:57 install ansible:all <none> 2.10.7+merged+base+2.10.8+dfsg-1
2021-12-08 23:11:06 install python3-argcomplete:all <none> 1.8.1-1.5
2021-12-08 23:11:06 install python3-jmespath:all <none> 0.10.0-1
2021-12-08 23:11:06 install python3-kerberos:amd64 <none> 1.1.14-3.1+b3
2021-12-08 23:11:06 install python3-lockfile:all <none> 1:0.12.2-2.2
2021-12-08 23:11:06 install python3-simplejson:amd64 <none> 3.17.2-1
2021-12-08 23:11:06 install python3-libcloud:all <none> 3.2.0-2
2021-12-08 23:11:07 install python3-ntlm-auth:all <none> 1.4.0-1
2021-12-08 23:11:07 install python3-requests-kerberos:all <none> 0.12.0-2
2021-12-08 23:11:07 install python3-requests-ntlm:all <none> 1.1.0-1.1
2021-12-08 23:11:07 install python3-requests-toolbelt:all <none> 0.9.1-1
2021-12-08 23:11:07 install python3-selinux:amd64 <none> 3.1-3
2021-12-08 23:11:07 install python3-xmltodict:all <none> 0.12.0-2
2021-12-08 23:11:07 install python3-winrm:all <none> 0.3.0-2
2021-12-08 23:14:53 install binutils-common:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install libbinutils:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install libctf-nobfd0:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install libctf0:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install binutils-x86-64-linux-gnu:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install binutils:amd64 <none> 2.35.2-2
2021-12-08 23:14:53 install libc-dev-bin:amd64 <none> 2.31-13+deb11u2
2021-12-08 23:14:53 install linux-libc-dev:amd64 <none> 5.10.70-1
```

```
2021-12-08 23:14:54 install libcrypt-dev:amd64 <none> 1:4.4.18-4
```

- 2021-12-08 23:14:54 install libtirpc-dev:amd64 <none> 1.3.1-1
- 2021-12-08 23:14:54 install libnsl-dev:amd64 <none> 1.3.0-2
- 2021-12-08 23:14:54 install libc6-dev:amd64 <none> 2.31-13+deb11u2
- 2021-12-08 23:14:54 install libcc1-0:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:54 install libitm1:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:54 install libatomic1:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:54 install libasan6:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:55 install liblsan0:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:55 install libtsan0:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:55 install libubsan1:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:55 install libgcc-10-dev:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:55 install gcc-10:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:57 install gcc:amd64 <none> 4:10.2.1-1
- 2021-12-08 23:14:57 install libstdc++-10-dev:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:57 install g++-10:amd64 <none> 10.2.1-6
- 2021-12-08 23:14:58 install g++:amd64 <none> 4:10.2.1-1
- 2021-12-08 23:14:58 install make:amd64 <none> 4.3-4.1
- 2021-12-08 23:14:58 install dpkg-dev:all <none> 1.20.9
- 2021-12-08 23:14:59 install build-essential:amd64 <none> 12.9
- 2021-12-08 23:14:59 install libfakeroot:amd64 <none> 1.25.3-1.1
- 2021-12-08 23:14:59 install fakeroot:amd64 <none> 1.25.3-1.1
- 2021-12-08 23:14:59 install libalgorithm-diff-perl:all <none> 1.201-1
- 2021-12-08 23:14:59 install libalgorithm-diff-xs-perl:amd64 <none> 0.04-6+b1
- 2021-12-08 23:14:59 install libalgorithm-merge-perl:all <none> 0.08-3
- 2021-12-08 23:14:59 install libc-devtools:amd64 <none> 2.31-13+deb11u2
- 2021-12-08 23:14:59 install libexpat1-dev:amd64 <none> 2.2.10-2
- 2021-12-08 23:14:59 install libjs-underscore:all <none> 1.9.1~dfsg-3
- 2021-12-08 23:14:59 install libjs-sphinxdoc:all <none> 3.4.3-2
- 2021-12-08 23:14:59 install libpython3.9-dev:amd64 <none> 3.9.2-1
- 2021-12-08 23:14:59 install libpython3-dev:amd64 <none> 3.9.2-3
- 2021-12-08 23:15:00 install manpages-dev:all <none> 5.10-1
- 2021-12-08 23:15:00 install python-pip-whl:all <none> 20.3.4-4
- 2021-12-08 23:15:00 install zlib1g-dev:amd64 <none> 1:1.2.11.dfsg-2
- 2021-12-08 23:15:00 install python3.9-dev:amd64 <none> 3.9.2-1
- 2021-12-08 23:15:00 install python3-dev:amd64 <none> 3.9.2-3
- 2021-12-08 23:15:00 install python3-setuptools:all <none> 52.0.0-4
- 2021-12-08 23:15:00 install python3-wheel:all <none> 0.34.2-1
- 2021-12-08 23:15:00 install python3-pip:all <none> 20.3.4-4