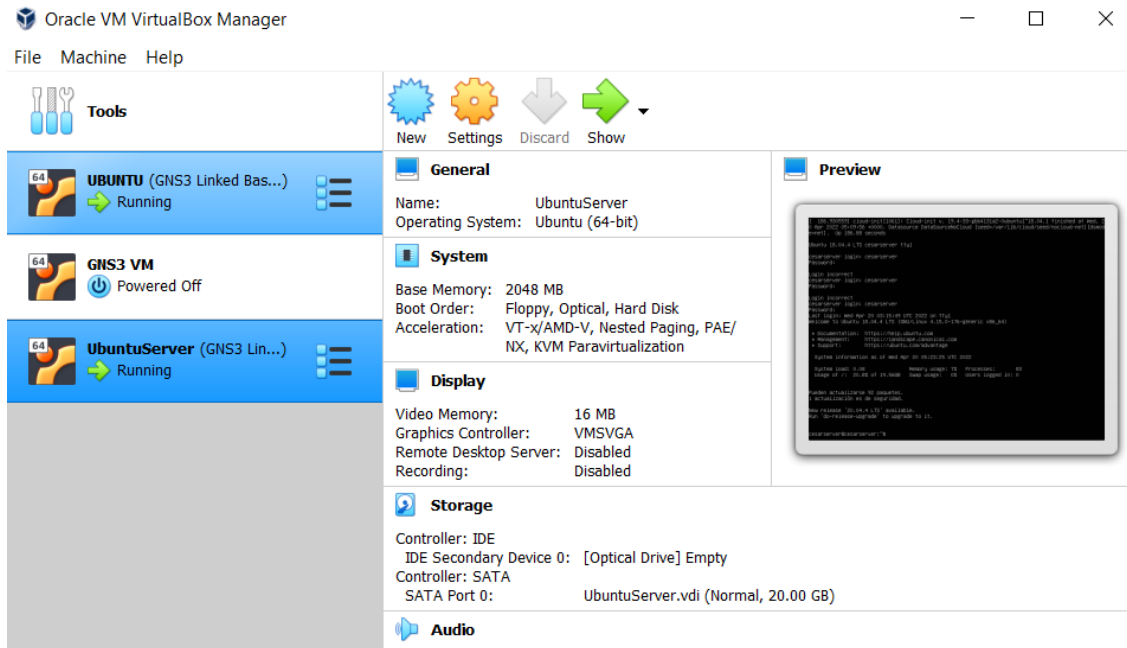
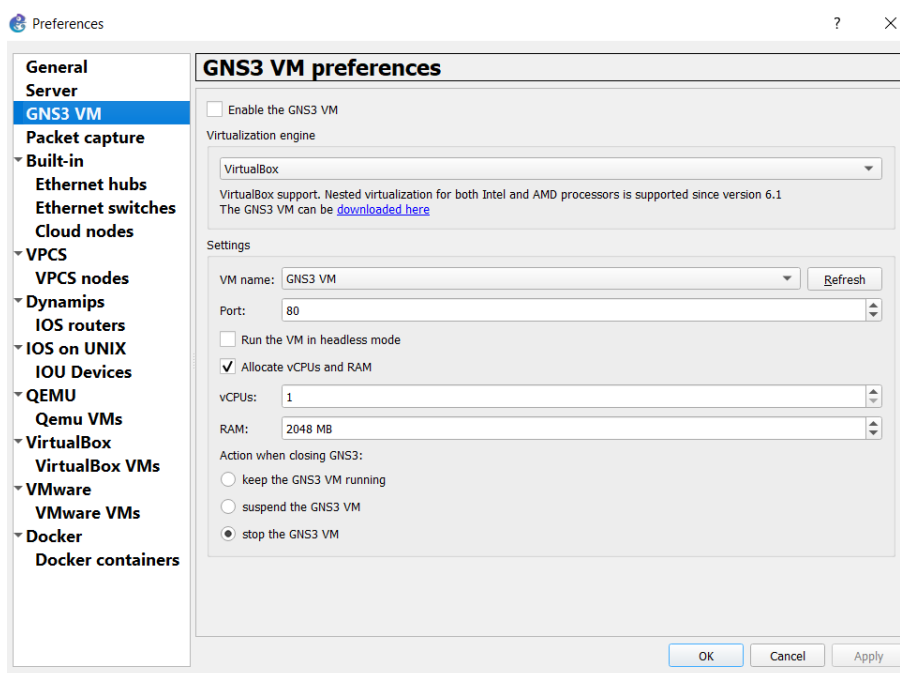


## La administración de máquinas virtuales y administrador de máquinas virtuales utilizó

- UTILIZAMOS VIRTUALBOX PARA ADMINISTRAR MAQUINAS VIRTUALES



## USANDO LA CONFIGURACION SIGUIENTE EN GNS3



General

Server

GNS3 VM

Packet capture

▼ Built-in

Ethernet hubs

Ethernet switches

Cloud nodes

▼ VPCS

VPCS nodes

▼ Dynamips

IOS routers

▼ IOS on UNIX

IOU Devices

▼ QEMU

Qemu VMs

▼ VirtualBox

VirtualBox VMs

▼ VMware

VMware VMs

▼ Docker

Docker containers

VirtualBox VM templates

UBUNTU

UbuntuServer

▼ General

Template name: UbuntuServer

Template ID: d392a48e-7426-453c-a179-04a19a94da3a

VirtualBox name: UbuntuServer

RAM: 2048

Server: LAPTOP-K3OFEA3T

Headless mode enabled: False

On close: power\_off

Linked base VM: False

Console type: none

Auto start console: False

▼ Network

Adapters: 1

Name format: Ethernet{0}

Use any adapter: True

Type: PCNet-FAST III (Am79C973)

New

Edit

Delete

OK

Cancel

Apply

## **Los comandos para el ESW con AAA**

Instalamos radius en la maquina virtual (server)

Con el siguiente comando:

Sudo apt-get install freeradius

Y seguimos toda la configuracion que nos pide.

## **CONFIGURACION DE RADIUS en el SWITCH**

configure terminal

username admin\_201700634 privilege 15 secret cisco\_8

aaa new-model

radius-server host 192.168.0.8 auth-port 1812 acct-port 1813

radius-server key UTCJ

aaa authentication login default group radius local

aaa authorization exec default group radius if-authenticated

enable secret cisco\_8

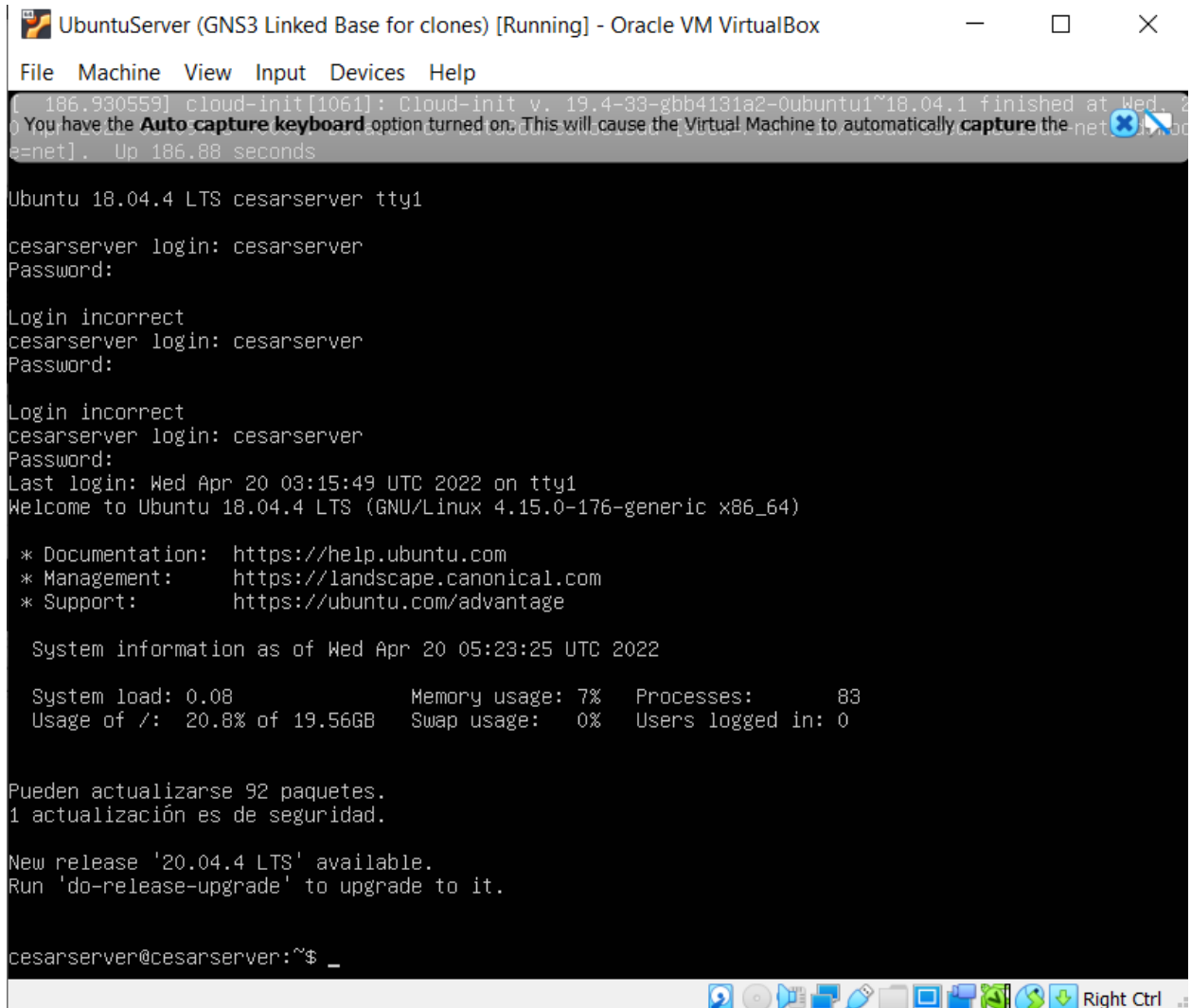
## La realización del servidor RADIUS

Instalamos radius en la maquina virtual (server)

Con el siguiente comando:

Sudo apt-get install freeradius

Y seguimos toda la configuracion que nos pide.



```
UbuntuServer (GNS3 Linked Base for clones) [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help
[ 186.930559] cloud-init[1061]: Cloud-init v. 19.4-33-gbb4131a2-0ubuntu1~18.04.1 finished at Wed, 20 Apr 2022 03:15:49 UTC.
0 You have the Auto-capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the keyboard input.
e=net]. Up 186.88 seconds

Ubuntu 18.04.4 LTS cesarsserver tty1

cesarsserver login: cesarsserver
Password:

Login incorrect
cesarsserver login: cesarsserver
Password:

Login incorrect
cesarsserver login: cesarsserver
Password:

Last login: Wed Apr 20 03:15:49 UTC 2022 on tty1
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-176-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Wed Apr 20 05:23:25 UTC 2022

System load: 0.08          Memory usage: 7%    Processes:      83
Usage of /:  20.8% of 19.56GB Swap usage:   0%    Users logged in: 0

Pueden actualizarse 92 paquetes.
1 actualización es de seguridad.

New release '20.04.4 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

cesarsserver@cesarsserver:~$ _
```