

Preparación del entorno de trabajo

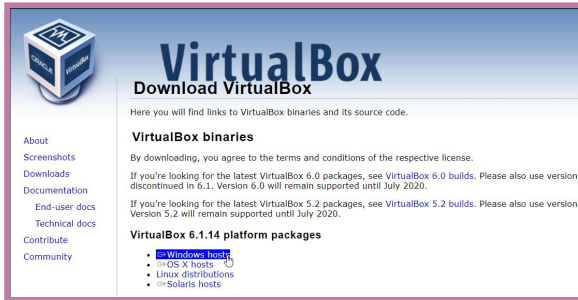
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Instalación VirtualBox

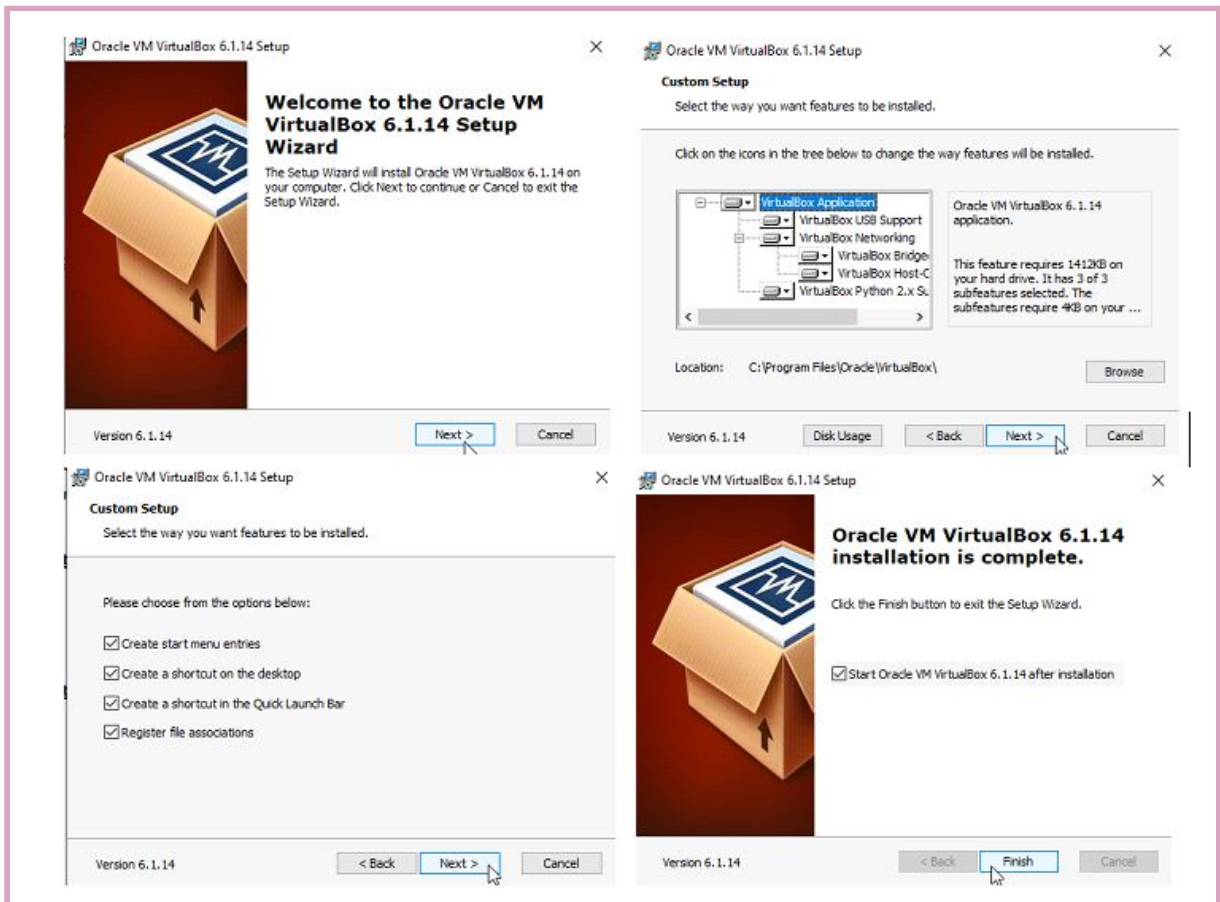
Página de descarga: <https://www.virtualbox.org/wiki/Downloads>

Elegir el ejecutable según el sistema operativo que tengamos de base.

Obtenemos el instalador



Comenzando la instalación de VirtualBox



Instalación SO

Añadir nueva máquina virtual para Ubuntu Server

Descargamos la ISO de Ubuntu Server 20.04 desde la [página oficial](https://ubuntu.com/download)

<http://www.ubuntu.com/download>

En mi caso he tenido que utilizar la versión 18.04 por problemas con VirtualBox pero mostraré ambos procesos

GET UBUNTU SERVER

Option 3: Manual install

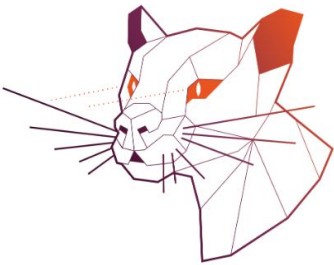
Download and install Ubuntu Server 20.04 LTS using a USB stick or a DVD burner




The long-term support version of Ubuntu Server, including the Ussuri release of OpenStack and support guaranteed until April 2025.

[Ubuntu 20.04 LTS release notes](#)

Option 1
Option 2
Download Ubuntu 20.04.1 LTS

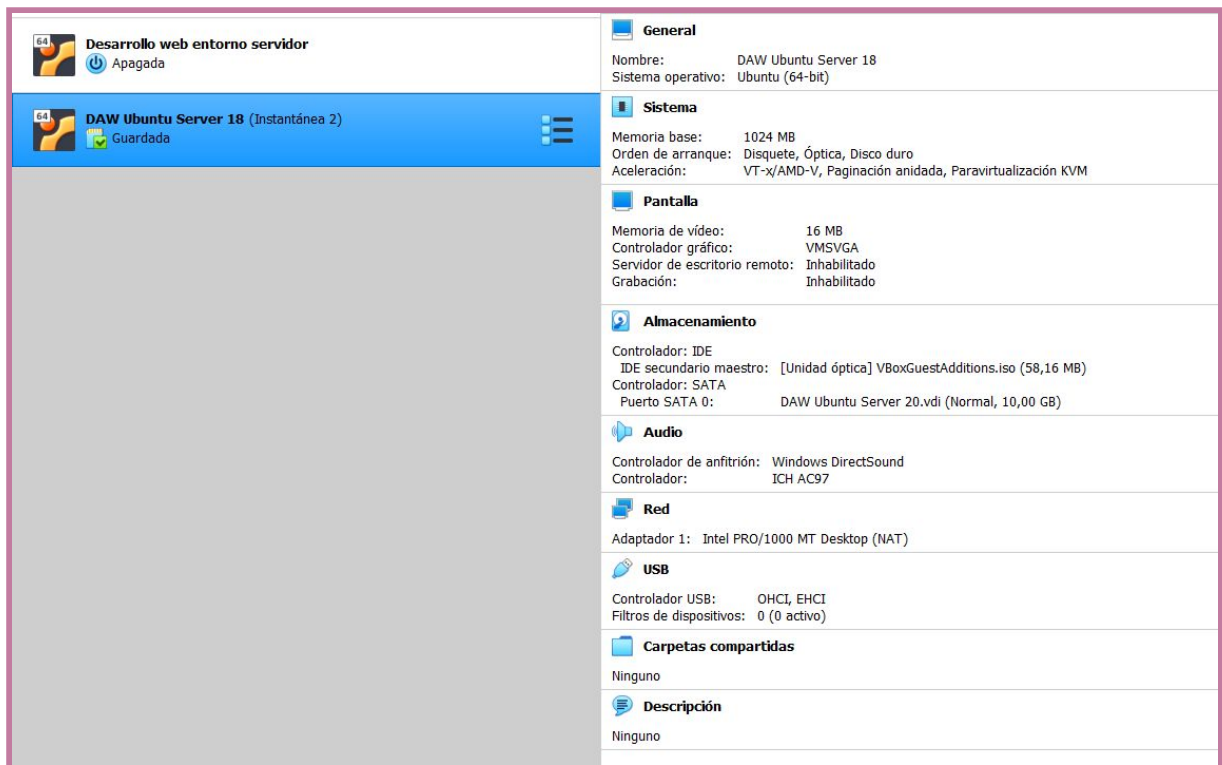
[Watch the webinar – "Ubuntu 20.04 LTS: What's new in server?"](#)



	ubuntu-18.04.5-desktop-amd64.manifest	2020-08-06 22:56	59K	Desktop image for 64-bit PC (AMD64) computers (contents of live filesystem)
	ubuntu-18.04.5-live-server-amd64.iso	2020-08-06 23:05	945M	Server install image for 64-bit PC (AMD64) computers (standard download)
	ubuntu-18.04.5-live-server-amd64.iso.torrent	2020-08-13 15:00	74K	Server install image for 64-bit PC (AMD64) computers (BitTorrent download)

Instalamos Ubuntu server montando la ISO en el cd

Creamos la máquina virtual:



Entorno gráfico

Una vez instalado el SO base, el que quiera puede instalar el escritorio gráfico GNOME o trabajar desde la línea de comandos de Ubuntu Server.

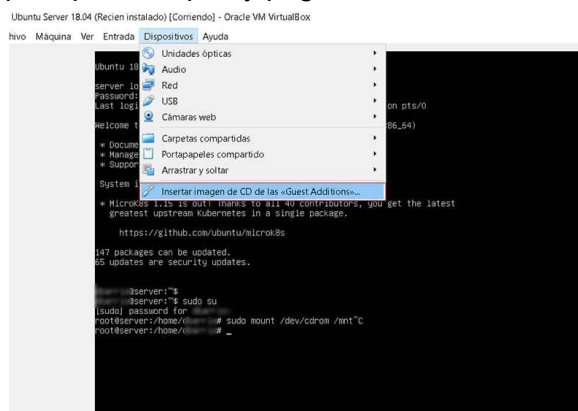
Para instalar escritorio gráfico...

```
sudo apt install tasksel
```

sudo tasksel (Elegir y marcar instalar ubuntu desktop)

Instalamos Guest Additions

para poder copiar y pegar desde el anfitrión...



No reconoce el cd de Guest Additions



En ese caso:

La imagen del CD de las Guest Additions se inserta en la unidad de cd rom virtual de Ubuntu Server. Pero debemos montar el cd-rom en un directorio para poder ver su contenido.

Lo montamos en /mnt con: **sudo mount /dev/cdrom /mnt**

```
root@server:/home/ # mount /dev/cdrom /mnt
mount: /mnt: WARNING: device write-protected, mounted read-only.
```

→ Listamos el directorio /mnt donde hemos montado las guest additions:

```
root@server:/home/ # ls /mnt
-rw-r--r-- 1 root root 1024000000 2014-07-14 10:00 TRANS.TBL
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 VBoxLinuxAdditions.run
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 VBoxWindowsAdditions-x86.exe
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 VBoxWindowsAdditions.exe
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 autorun.sh
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 VBoxSolarisAdditions.pkg
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 VBoxWindowsAdditions-amd64.exe
-rwxr-xr-x 1 root root 1024000000 2014-07-14 10:00 cert
```

→ Ahora podríamos lanzar la instalación de las guest-additions, pero primero nos aseguramos de que estén instaladas todas las dependencias necesarias:

**sudo apt-get install -y dkms build-essential linux-headers-generic
linux-headers-\$(uname -r)**

→ Ahora nos logueamos como root y vamos a instalar las guest additions:

```
sudo su  
cd /mnt  
./VBoxLinuxAdditions.run
```

→ Las Guest Additions comenzarán a instalarse.

Cuando haya terminado la instalación, veremos:

VirtualBox Guest Additions: Starting

Pero aún no hemos terminado.

→ Aún es necesario un reinicio del equipo para que las herramientas de VirtualBox funcionen.

Reiniciamos con: **reboot**

Instalar editor

Al haber instalado el entorno gráfico ya viene con gedit instalado, será el que usemos.

Actualizar paquetes

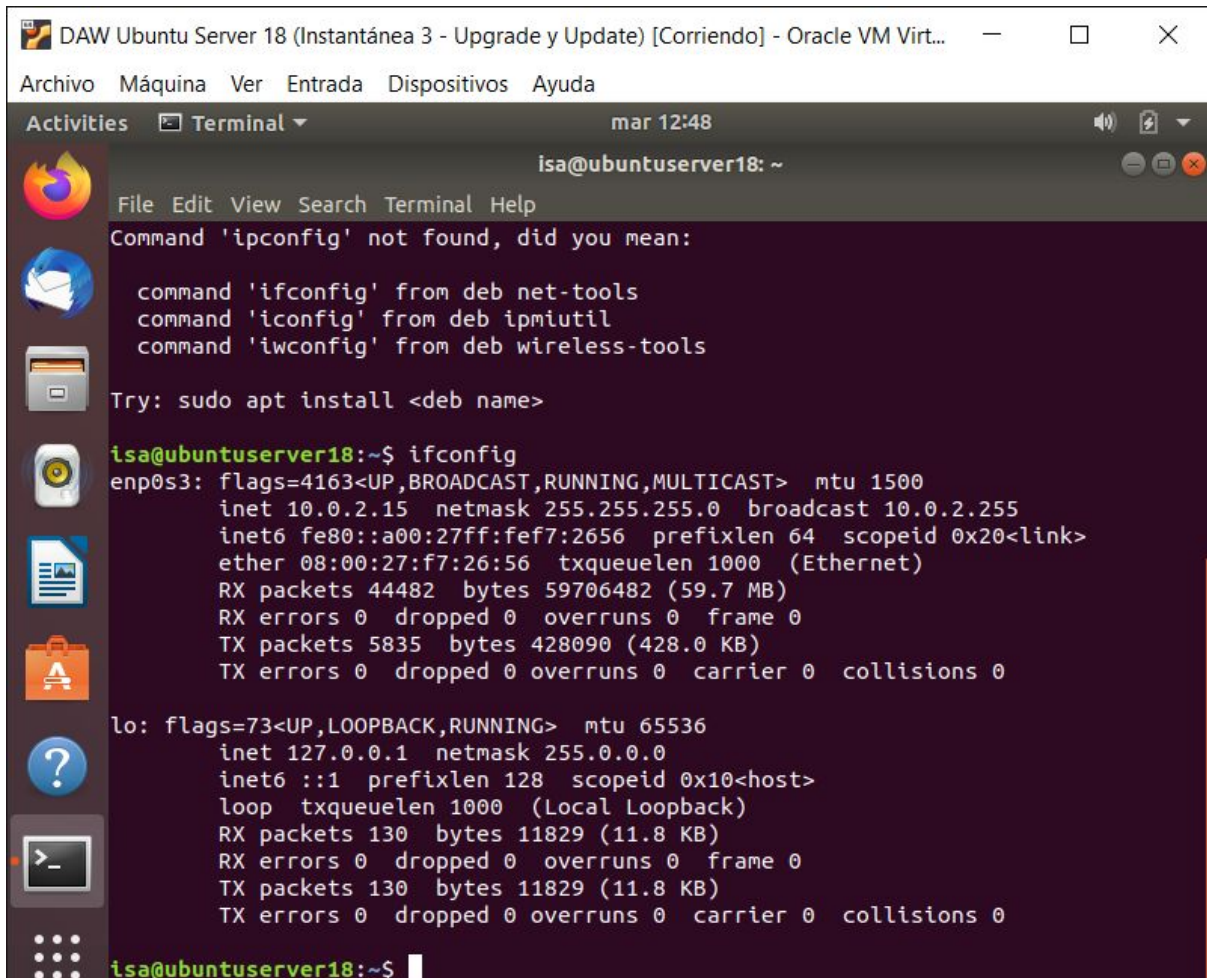
sudo apt-get upgrade

sudo apt-get update

Configurar red

editar el Archivo YAML del Directorio '/etc/netplan/'

Comprobamos ip con el comando ifconfig



```

DAW Ubuntu Server 18 (Instantánea 3 - Upgrade y Update) [Corriendo] - Oracle VM Virt...
Archivo Máquina Ver Entrada Dispositivos Ayuda
Activities Terminal mar 12:48
isa@ubuntu18: ~
File Edit View Search Terminal Help
Command 'ipconfig' not found, did you mean:
  command 'ifconfig' from deb net-tools
  command 'iconfig' from deb ipmiutil
  command 'iwconfig' from deb wireless-tools
Try: sudo apt install <deb name>
isa@ubuntu18:~$ ifconfig
enp0s3: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 10.0.2.15 netmask 255.255.255.0 broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe7:2656 prefixlen 64 scopeid 0x20<link>
    ether 08:00:27:f7:26:56 txqueuelen 1000 (Ethernet)
    RX packets 44482 bytes 59706482 (59.7 MB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5835 bytes 428090 (428.0 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

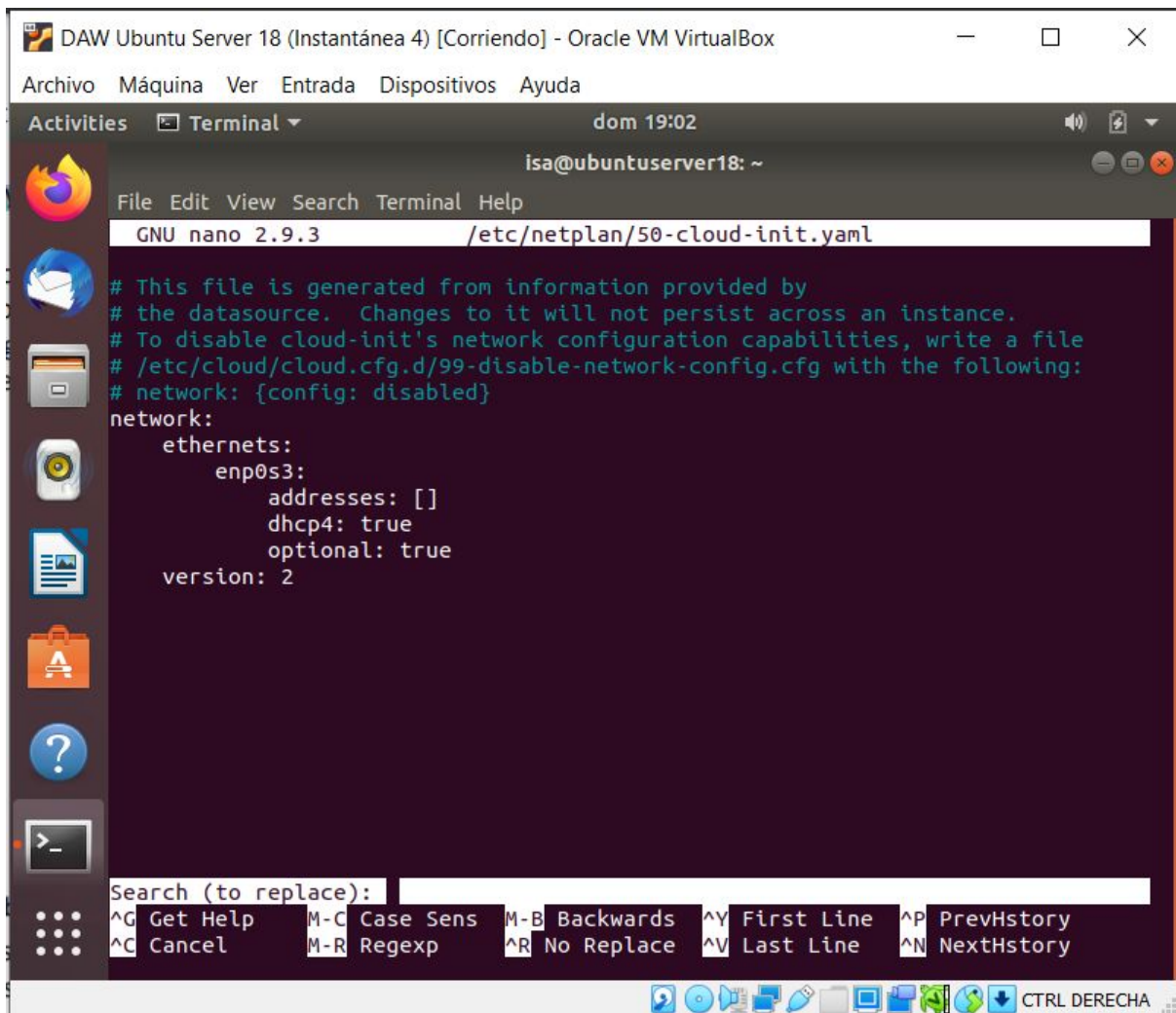
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 130 bytes 11829 (11.8 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 130 bytes 11829 (11.8 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
isa@ubuntu18:~$

```

Como no tenemos acceso al comando lo instalamos:

sudo apt-get install net-tools

Mi archivo, que en este momento está así:



The screenshot shows a terminal window titled "DAW Ubuntu Server 18 (Instantánea 4) [Corriendo] - Oracle VM VirtualBox". The terminal is running the nano text editor, editing the file `/etc/netplan/50-cloud-init.yaml`. The user is `isa@ubuntuserver18: ~`. The terminal shows the following content:

```
File Edit View Search Terminal Help
GNU nano 2.9.3 /etc/netplan/50-cloud-init.yaml

# This file is generated from information provided by
# the datasource.  Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  ethernets:
    enp0s3:
      addresses: []
      dhcp4: true
      optional: true
  version: 2
```

At the bottom of the terminal, there is a search bar labeled "Search (to replace):" and a list of keyboard shortcuts:

^G Get Help	M-C Case Sens	M-B Backwards	^Y First Line	^P PrevHstory
^C Cancel	M-R Regexp	^R No Replace	^V Last Line	^N NextHstory

The terminal window also shows a sidebar with various icons and a status bar at the bottom with the text "CTRL DERECHA".

modificar archivo .yaml

DAW Ubuntu Server 18 (Instantánea 5 - Previa a modificar .yaml) [Corriendo] - Oracle V...

Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal dom 20:38 isa@ubuntuserver18: ~

File Edit View Search Terminal Help

GNU nano 2.9.3 /etc/netplan/50-cloud-init.yaml

```
# This file is generated from information provided by
# the datasource. Changes to it will not persist across an instance.
# To disable cloud-init's network configuration capabilities, write a file
# /etc/cloud/cloud.cfg.d/99-disable-network-config.cfg with the following:
# network: {config: disabled}
network:
  version: 2
  renderer: networkd
  ethernets:
    eno1:
      dhcp4: false
      addresses: [192.168.0.20/24]
      gateway4: 192.168.0.1
      nameservers:
        addresses: [8.8.8.8,8.8.4.4,1.1.1.1]
```

[Read 15 lines]

^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify
^X Exit ^R Read File ^\ Replace ^U Uncut Text ^T To Spell

CTRL DERECHA

```
sudo netplan -debug apply
sudo netplan try
```


Hacemos ping para comprobar

DAW Ubuntu Server 18 (Instantánea 5 - Previa a modificar .yaml) [Corriendo] - Oracle V...

Archivo Máquina Ver Entrada Dispositivos Ayuda

Activities Terminal dom 20:40

isa@ubuntu18: ~

File Edit View Search Terminal Help

```
64 bytes from 8.8.8.8: icmp_seq=3 ttl=116 time=122 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=116 time=29.4 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=116 time=24.1 ms
^C
--- 8.8.8.8 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4004ms
rtt min/avg/max/mdev = 23.508/44.604/122.233/38.877 ms
isa@ubuntu18:~$ sudo nano /etc/netplan/50-cloud-init.yaml
isa@ubuntu18:~$ ping 8.8.8.8
PING 8.8.8.8 (8.8.8.8) 56(84) bytes of data:
64 bytes from 8.8.8.8: icmp_seq=1 ttl=116 time=23.5 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=116 time=23.1 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=116 time=26.0 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=116 time=26.0 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=116 time=37.2 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=116 time=27.9 ms
64 bytes from 8.8.8.8: icmp_seq=7 ttl=116 time=23.6 ms
64 bytes from 8.8.8.8: icmp_seq=8 ttl=116 time=26.9 ms
64 bytes from 8.8.8.8: icmp_seq=9 ttl=116 time=30.1 ms
64 bytes from 8.8.8.8: icmp_seq=10 ttl=116 time=24.6 ms
64 bytes from 8.8.8.8: icmp_seq=11 ttl=116 time=29.5 ms
64 bytes from 8.8.8.8: icmp_seq=12 ttl=116 time=24.0 ms
64 bytes from 8.8.8.8: icmp_seq=13 ttl=116 time=24.1 ms
64 bytes from 8.8.8.8: icmp_seq=14 ttl=116 time=32.4 ms
64 bytes from 8.8.8.8: icmp_seq=15 ttl=116 time=47.6 ms
64 bytes from 8.8.8.8: icmp_seq=16 ttl=116 time=26.2 ms
64 bytes from 8.8.8.8: icmp_seq=17 ttl=116 time=25.8 ms
```

Show Applications

CTRL DERECHA