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# **UD07**

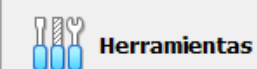
## **Instalación de Ubuntu Server**



# **Creación Máquina virtual (VirtualBox)**

**Requisitos hardware:**

- **CPU: 2 núcleos**
- **RAM: 4 GB.**
- **Disco: SATA 50 GB (Dinámico)**
- **Adaptador de red: NAT**

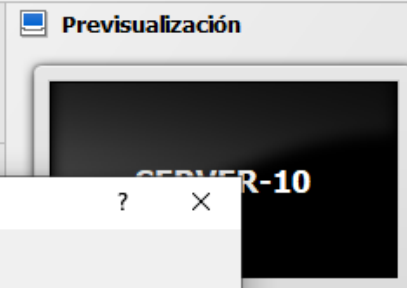


- > Linux
- > Windows

**General**

Nombre: SERVER-10  
 Sistema operativo: Ubuntu (64-bit)  
 Grupos: Linux

**Sistema**



## Nombre y sistema operativo de la máquina virtual

Seleccione un nombre descriptivo y carpeta destino para la nueva máquina virtual. El nombre que seleccione será usado por VirtualBox para identificar esta máquina. Adicionalmente, puede seleccionar una imagen ISO que puede ser usada para instalar el sistema operativo invitado.

Nombre:

SERVER-1

✓

Carpeta:

C:\Users\FJCP\VirtualBox VMs

▼

Imagen ISO:

<no seleccionado>

▼

Edición:

▼

Tipo:

Linux

▼

Versión:

Ubuntu 20.04 LTS (Focal Fossa) (64-bit)

▼

☐ Omitir instalación desatendida

No hay imagen ISO seleccionada, el SO invitado será necesario instalarlo manualmente.

Ayuda

Modo experto

Anterior

Siguiente

Cancelar

**USB**

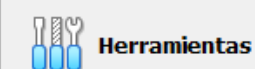
Controlador USB: OHCI, EHCI  
 Filtros de dispositivos: 0 (0 activo)

**Carpetas compartidas**

Ninguno

**Descripción**

Ninguno

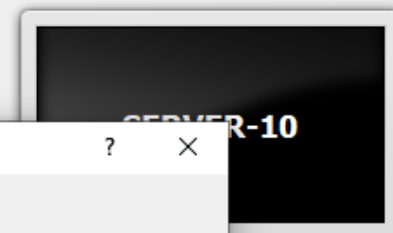


- > Linux
- > Windows

**General**

Nombre: SERVER-10  
 Sistema operativo: Ubuntu (64-bit)  
 Grupos: Linux

**Previsualización**



## Crear máquina virtual

### Hardware

Puede modificar el hardware de la máquina virtual cambiando la cantidad de RAM y número de CPU virtuales. También es posible habilitar EFI.

Memoria base:

Procesadores:

☐ Habilitar EFI (sólo SO especiales)

Ayuda

Anterior **Siguiente** Cancelar

**USB**

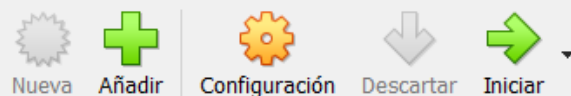
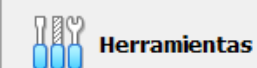
Controlador USB: OHCI, EHCI  
 Filtros de dispositivos: 0 (0 activo)

**Carpetas compartidas**

Ninguno

**Descripción**

Ninguno

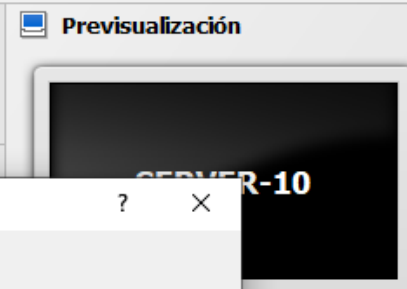


- > Linux
- > Windows

**General**

Nombre: SERVER-10  
 Sistema operativo: Ubuntu (64-bit)  
 Grupos: Linux

**Sistema**



## Disco duro virtual

Si lo desea puede añadir un nuevo disco duro virtual a la nueva máquina. Puede crear un nuevo archivo de disco duro o seleccionar uno existente. De forma alternativa puede crear una máquina virtual sin un disco duro virtual.

☒ Crear un disco duro virtual ahora

Tamaño de disco: 4,00 MB 2,00 TB

☐ Reservar tamaño completo

☐ Usar un archivo de disco duro virtual existente

SERVER-2019-C.vdi (Normal, 50,00 GB)

☐ No añadir un disco duro virtual

Ayuda Anterior **Siguiente** Cancelar

**USB**

Controlador USB: OHCI, EHCI  
 Filtros de dispositivos: 0 (0 activo)

**Carpetas compartidas**

Ninguno

**Descripción**

Ninguno



Herramientas



Nueva



Añadir



Configuración



Descartar



Iniciar

> Linux

> Windows



General

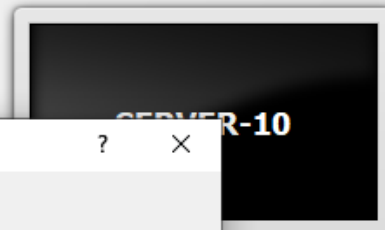
Nombre: SERVER-10  
Sistema operativo: Ubuntu (64-bit)  
Grupos: Linux



Sistema



Previsualización



Crear máquina virtual



## Resumen

La siguiente tabla resume la configuración que ha elegido para la nueva máquina virtual. Cuando esté conforme con la configuración presione Finalizar para crear la máquina virtual. También puede volver atrás y modificar la configuración.



### Nombre y tipo de SO de la máquina

Nombre de máquina	SERVER-1
Carpeta de la máquina	C:/Users/FJCP/VirtualBox VMs/Linux/SERVER-1
Imagen ISO	
Tipo de SO invitado	Ubuntu 20.04 LTS (Focal Fossa) (64-bit)



### Hardware

Memoria base	4096
Procesador(es)	2
Habilitar EFI	false



### Disco

Tamaño de disco	50,00 GB
Reservar tamaño completo	false

Ayuda

Anterior

Terminar

Cancelar



USB

Controlador USB: OHCI, EHCI  
Filtros de dispositivos: 0 (0 activo)



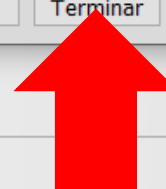
Carpetas compartidas

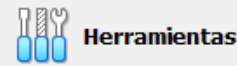
Ninguno



Descripción

Ninguno





 Nueva

 Añadir

 Configuración

 Descartar

 Iniciar

- > Linux
- > Windows
- 64 SERVER-1**  
Apagada

**General**

Nombre: SERVER-1

Sistema operativo: Ubuntu 20.04 LTS (Focal Fossa) (64-bit)

**Sistema**

Memoria base: 4096 MB

Procesadores: 2

Orden de arranque: Disquete, Óptica, Disco duro

Aceleración: Paginación anidada, Paravirtualización KVM

**Pantalla**

Memoria de vídeo: 16 MB

Controlador gráfico: VMSVGA

Servidor de escritorio remoto: Inhabilitado

Grabación: Inhabilitado

**Almacenamiento**

Controlador: IDE

Dispositivo IDE secundario 0: [Unidad óptica] Vacío

Controlador: SATA

Puerto SATA 0: SERVER-1.vdi (Normal, 50,00 GB)

**Audio**

Controlador de anfitrión: Predeterminado

Controlador: ICH AC97

**Red**

Adaptador 1: Intel PRO/1000 MT Desktop (NAT)

**USB**

Controlador USB: OHCI, EHCI

Filtros de dispositivos: 0 (0 activo)

**Carpetas compartidas**

Ninguno

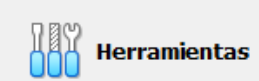
**Descripción**

Ninguno



# **Instalación Sistema Operativo**





- > Linux
- > Windows
- 64 SERVER-1**
  - Apagada

General

Nombre: SERVER-1  
Sistema operativo: Ubuntu 20.04 LTS (Focal Fossa) (64-bit)

Sistema

Memoria base: 4096 MB  
Procesadores: 2  
Orden de arranque: Disquete, Óptica, Disco duro  
Aceleración: Paginación anidada, Paravirtualización KVM

Pantalla

Memoria de vídeo: 16 MB  
Controlador gráfico: VMSVGA  
Servidor de escritorio remoto: Inhabilitado  
Grabación: Inhabilitado

Almacenamiento

Controlador: IDE

Dispositivo IDE secundario 0: [Unidad óptica] ubuntu-20.04.6-live-server-amd64.iso (1,39 GB)

Controlador: SATA

Puerto SATA 0: SERVER-1.vdi (Normal, 50,00 GB)

Audio

Controlador de anfitrión: Predeterminado  
Controlador: ICH AC97

Red

Adaptador 1: Intel PRO/1000 MT Desktop (NAT)

USB

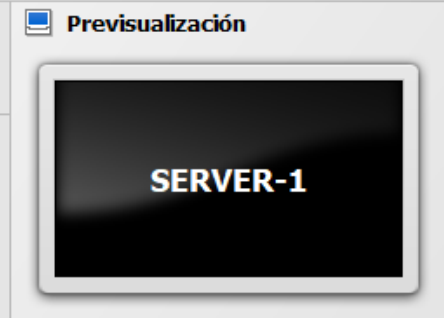
Controlador USB: OHCI, EHCI  
Filtros de dispositivos: 0 (0 activo)

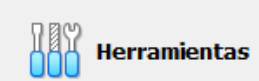
Carpetas compartidas

Ninguno

Descripción

Ninguno





Nueva
 Añadir
 Configuración
 Descartar
 Iniciar

- > Linux
- > Windows
- SERVER-1**
 Apagada

**General**

Nombre: SERVER-1  
Sistema operativo: Ubuntu 20.04 LTS (Focal Fossa) (64-bit)

**Sistema**

Memoria base: 4096 MB  
Procesadores: 2  
Orden de arranque: Disquete, Óptica, Disco duro  
Aceleración: Paginación anidada, Paravirtualización KVM

**Pantalla**

Memoria de vídeo: 16 MB  
Controlador gráfico: VMSVGA  
Servidor de escritorio remoto: Inhabilitado  
Grabación: Inhabilitado

**Almacenamiento**

Controlador: IDE  
Dispositivo IDE secundario 0: [Unidad óptica] ubuntu-20.04.6-live-server-amd64.iso (1,39 GB)  
Controlador: SATA  
Puerto SATA 0: SERVER-1.vdi (Normal, 50,00 GB)

**Audio**

Controlador de anfitrión: Predeterminado  
Controlador: ICH AC97

**Red**

Adaptador 1: Intel PRO/1000 MT Desktop (NAT)

**USB**

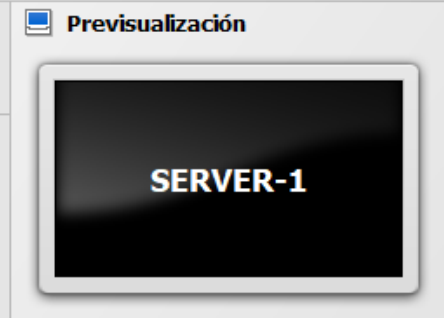
Controlador USB: OHCI, EHCI  
Filtros de dispositivos: 0 (0 activo)

**Carpetas compartidas**

Ninguno

**Descripción**

Ninguno



```
[ 1.308035] [drm:vmw_host_log [vmwgfx]] *ERROR* Failed to send host log messa
ge.
[ 1.309147] [drm:vmw_host_log [vmwgfx]] *ERROR* Failed to send host log messa
ge.
.
Checking integrity, this may take some time (or try: fsck.mode=skip)
.....
Check finished: no errors found.

[ 10.210828] /dev/loop2: Can't open blockdev
[ 10.839587] systemd[1]: Failed unmounting /cdrom.
[FAILED] Failed unmounting /cdrom.
[ 15.330832] cloud-init[1189]: Cloud-init v. 22.4.2-0ubuntu0~20.04.2 running 'init-local' at Wed,
20 Dec 2023 13:05:23 +0000. Up 14.92 seconds.
```

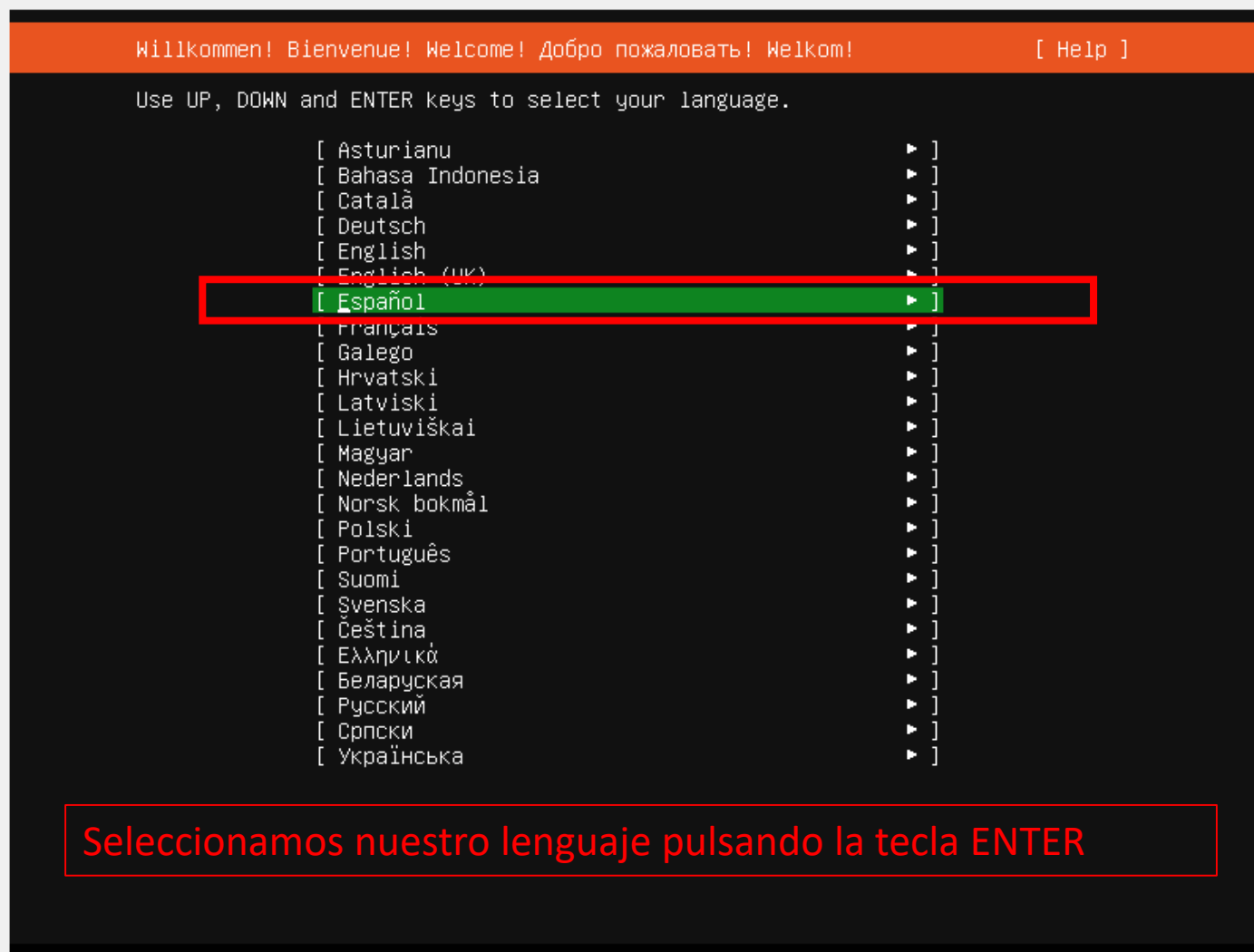
Willkommen! Bienvenue! Welcome! Добро пожаловать! Welkom!

[ Help ]

Use UP, DOWN and ENTER keys to select your language.

[ Asturianu	▶ ]
[ Bahasa Indonesia	▶ ]
[ Català	▶ ]
[ Deutsch	▶ ]
[ English	▶ ]
[ English (UK)	▶ ]
[ Español	▶ ]
[ Français	▶ ]
[ Galego	▶ ]
[ Hrvatski	▶ ]
[ Latviski	▶ ]
[ Lietuviškai	▶ ]
[ Magyar	▶ ]
[ Nederlands	▶ ]
[ Norsk bokmål	▶ ]
[ Polski	▶ ]
[ Português	▶ ]
[ Suomi	▶ ]
[ Svenska	▶ ]
[ Čeština	▶ ]
[ Ελληνικά	▶ ]
[ Беларуская	▶ ]
[ Русский	▶ ]
[ Српски	▶ ]
[ Українська	▶ ]

Buscamos nuestro lenguaje desplazándonos con las teclas ↑↓



Actualización del instalador disponible

[ Help ]

Version 23.10.1 of the installer is now available (22.07.2 is currently running).

You can read the release notes for each version at:

<https://github.com/canonical/subiquity/releases>

If you choose to update, the update will be downloaded and the installation will continue from here.

Debemos seleccionar “Actualizar al instalador nuevo”.

[ Actualizar al instalador nuevo ]  
[ Continuar sin actualizar ]  
[ Atrás ]

## Actualización del instalador disponible

[ Help ]

Version 23.10.1 of the installer is now available (22.07.2 is currently running).

You can read the release notes for each version at:

<https://github.com/canonical/subiquity/releases>

If you choose to update, the update will be downloaded and the installation will continue from here.

Para ello, nos desplazamos con las teclas ↑↓ y seleccionamos con la tecla ENTER

[ Actualizar al instalador nuevo ]

[ Continuar sin actualizar ]

[ Atrás ]

Descargando actualización...

[ Help ]

Espere mientras se descarga el instalador actualizado. Este se reiniciará automáticamente tras finalizar la descarga.

```
Handling re-refresh of "subiquity" as needed \
Download snap "core22" (1033) from channel "stable" 72.22 / 74.11 MiB
```

Se está descargando el nuevo instalador.  
Espera hasta que aparezca la siguiente pantalla.

[ Cancelar actualización ]



## Keyboard configuration

[ Help ]

Please select your keyboard layout below, or select "Identify keyboard" to detect your layout automatically.

Layout: [ Spanish ▼ ]

Variant: [ Spanish ▼ ]

[ Identify keyboard ]

Detecta automáticamente nuestro teclado en función del lenguaje que configuramos.  
Seleccionar "Done" y pulsar ENTER

[ Done ]  
[ Back ]

Choose type of install

[ Help ]

Choose the base for the installation.

☒ Ubuntu Server

the default

Additional options

☐ Search for third-party drivers

This software is subject to license terms included with its documentation.  
Some is proprietary. Third-party drivers should not be installed on  
systems that will be used for FIPS or the real-time kernel.

Seleccionar "Done" y pulsar ENTER

[ Done ]  
[ Back ]

## Network connections

[ Help ]

Configure at least one interface this server can use to talk to other machines, and which preferably provides sufficient access for updates.

NAME	TYPE	NOTES
[ enp0s3	eth	- ▶ ]
DHCPv4	10.0.2.15/24	
08:00:27:d5:f6:d7 / Intel Corporation / 82540EM Gigabit Ethernet Controller (PRO/1000 MT Desktop Adapter)		

[ Create bond ▶ ]

En esta pantalla nos muestra la configuración de red del servidor. Estos valores han sido configurados por DHCP, si en la red existe un servidor DHCP, como ocurre con un adaptador NAT'. Podríamos aprovechar este paso para configurar correctamente el servidor. Sin embargo, realizaremos la configuración de red una vez instalador el servidor. Por tanto, no debemos cambiar nada en este paso.

Seleccionar "Done" y pulsar ENTER

[ Done ]  
[ Back ]

## Configure proxy

[ Help ]

If this system requires a proxy to connect to the internet, enter its details here.

Proxy address:

If you need to use a HTTP proxy to access the outside world, enter the proxy information here. Otherwise, leave this blank.

The proxy information should be given in the standard form of "http://[[user] [:pass]@]host[:port]/".

Seleccionar "Done" y pulsar ENTER

[ Done ]  
[ Back ]

## Configure Ubuntu archive mirror

[ Help ]

If you use an alternative mirror for Ubuntu, enter its details here.

Mirror address:

You may provide an archive mirror that will be used instead of the default.

This mirror location passed tests.

```
Hit:1 http://es.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://es.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:3 http://es.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Fetched 222 kB in 1s (290 kB/s)
Reading package lists...
```

Seleccionar “Done” y pulsar ENTER

[ Done ]  
[ Back ]

## Guided storage configuration

[ Help ]

Configure a guided storage layout, or create a custom one:

☒ Use an entire disk

[ VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e local disk 50.000G ▼ ]

☒ Set up this disk as an LVM group

[ ] Encrypt the LVM group with LUKS

Passphrase:

Confirm passphrase:

[ ] Also create a recovery key  
The key will be stored as  
~/recovery-key.txt in the live system and  
will be copied to /var/log/installer/ in  
the target system.

☐ Custom storage layout

En esta pantalla se configura el almacenamiento.

[ Done         ]  
[ Back        ]

## Guided storage configuration

[ Help ]

Configure a guided storage layout, or create a custom one:

☐ Use an entire disk

[ VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e local disk 50.000G ▼ ]

☒ Set up this disk as an LVM group

☐ Encrypt the LVM group with LUKS

Passphrase:

Confirm passphrase:

☐ Also create a recovery key  
The key will be stored as  
~/recovery-key.txt in the live system and  
will be copied to /var/log/installer/ in  
the target system.

☒ Custom storage layout

Desplazarse con las teclas ↓↑ y usar barra ESPACIO para seleccionar. Después seleccionar "Done" y pulsar ENTER

[ Done ]  
[ Back ]

## **Organización del almacenamiento:**

- **/boot: 1GB (partición para los ficheros de arranque).**
- **swap: 4 GB (partición de intercambio de memoria).**
- **/: 25 GB (partición para la instalación del S.O.)**
- **/home: 20 GB (resto) (partición para datos usuarios).**



Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		49.998G ▶

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

USED DEVICES

No used devices

Seleccionar espacio libre (free space) con las teclas ↓↑

[ Done ]  
 [ Reset ]  
 [ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bdc9fc-d5c7470c ]	local disk	50.000G ▶
free space		49.998G ▶

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

USED DEVICES

No used devices

Pulsar ENTER

[ Done ]  
[ Reset ]  
[ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶
free space		49.998G ▶

◀ (close)  
 Add GPT Partition ▶

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

No used devices

Seleccionar añadir partición GPT (Add GPT Partition) con las  
 teclas ↓↑

[ Done            ]  
 [ Reset          ]  
 [ Back           ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶
free space		49.998G ▶

(close)

Add GPT Partition ▶

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

USED DEVICES

No used devices

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

Adding GPT partition to VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e

Size (max 49.998G):

Format: [ ext4 ▼ ]

Mount: [ / ▼ ]

[ Create ]  
[ Cancel ]

[ Done ]  
[ Reset ]  
[ Back ]

Tamaño: 1 GB  
Sistema de archivos: ext4  
Punto de montaje: /boot

Storage configuration
[ Help ]

To continue you need to: Mount a filesystem at /  
Select a boot disk

FILE SYSTEM SUMMARY

No disks or partitions mounted.

Adding GPT partition to VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e

Size (max 49.998G): 1G

Format: [ ext4 ▼ ]

Mount: [ /boot ▼ ]

[ Create ]  
[ Cancel ]

Seleccionar "Create" y pulsar ENTER

[ Done ]  
[ Reset ]  
[ Back ]

Storage configuration
[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]	

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		48.997G ▶

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1 new BIOS grub spacer		1.000M ▶
partition 2 new, to be formatted as ext4, mounted at /boot		1.000G ▶

La partición /boot ha sido configurada correctamente. De nuevo, seleccionar espacio libre (free space) con las teclas ↓↑

[ Done ]  
 [ Reset ]  
 [ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE	SIZE
/boot	1.000G	new ext4	new partition of local disk ▶ ]		

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		48.997G ▶ ]

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]



Storage configuration
[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
/boot	1.000G	new ext4	new partition of local disk	▶

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G
free space		4.000G

◀ (close)  
Add GPT Partition ▶

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶
partition 1	new, BIOS grub spacer	1.000M ▶
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶

Seleccionar añadir partición GPT (Add GPT Partition) con las teclas ↓↑

[ Done ]  
 [ Reset ]  
 [ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		4.000G ▶ ]

(close)

Add GPT Partition ▶

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration

[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]

Adding GPT partition to VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e

Size (max 48.997G): 4G

Format: [ swap ▼ ]

Mount: [ / ▼ ]

[ Create ]

[ Cancel ]

[ Done ]

[ Reset ]

[ Back ]

Tamaño: 4 GB

Sistema de archivos: swap

Seleccionar "Create" y pulsar ENTER

```

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT    SIZE    TYPE    DEVICE TYPE
[ /boot        1.000G  new ext4  new partition of local disk ► ]
[ SWAP         4.000G  new swap  new partition of local disk ► ]

AVAILABLE DEVICES

DEVICE                                TYPE    SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e  local disk  50.000G ► ]
free space                            44.997G ►

[ Create software RAID (md) ► ]
[ Create volume group (LVM) ► ]

USED DEVICES

DEVICE                                TYPE    SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e  local disk  50.000G ► ]
partition 1  new, BIOS grub spacer    1.000M ►
partition 2  new, to be formatted as ext4  mounted at /boot 1.000G ►
partition 3  new, to be formatted as swap    4.000G ►

[ Done      ]
[ Reset     ]
[ Back      ]
    
```

La partición swap ha sido configurada correctamente. De nuevo, seleccionar espacio libre (free space) con las teclas ↓↑

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]	
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]	

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		44.997G ▶ ]

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]	
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]	

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		4.000G ▶ ]

◀ (close)  
 Add GPT Partition ▶

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]

Seleccionar añadir partición GPT (Add GPT Partition) con las teclas ↓↑

[ Done ]  
 [ Reset ]  
 [ Back ]

Storage configuration [ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]	
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]	

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		4.000G ▶ ]

(close)

Add GPT Partition ▶

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration

[ Help ]

To continue you need to: Mount a filesystem at /

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

Adding GPT partition to VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e

Size (max 44.997G): 25G

Format: [ ext4 ▼ ]

Mount: [ / ▼ ]

[ Create ]

[ Cancel ]

partition 3 new, to be formatted as swap 4.000G ▶

[ Done ]

[ Reset ]

[ Back ]

Tamaño: 25 GB  
 Sistema de archivos: ext4  
 Punto de montaje: /  
 Seleccionar "Create" y pulsar ENTER



Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		19.997G ▶

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1 new, BIOS grub spacer		1.000M ▶
partition 2 new, to be formatted as ext4, mounted at /boot		1.000G ▶
partition 3 new, to be formatted as swap		4.000G ▶
partition 4 new, to be formatted as ext4, mounted at /		25.000G ▶

[ Done ]  
[ Reset ]  
[ Back ]

La partición / ha sido configurada correctamente. De nuevo, seleccionar espacio libre (free space) con las teclas ↓↑

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE	TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]	
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]	
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]	

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
free space		19.997G ▶ ]

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]
partition 4	new, to be formatted as ext4, mounted at /	25.000G ▶ ]

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G
free space		1.000G

◀ (close)

Add GPT Partition ▶

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶
partition 3	new, to be formatted as swap	4.000G ▶
partition 4	new, to be formatted as ext4, mounted at /	25.000G ▶

Seleccionar añadir partición GPT (Add GPT Partition) con las teclas ↓↑

[ Done ]

[ Reset ]

[ Back ]

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

AVAILABLE DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G
free space		1.000G

(close)

Add GPT Partition ▶

[ Create software RAID (md) ▶ ]

[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶
partition 3	new, to be formatted as swap	4.000G ▶
partition 4	new, to be formatted as ext4, mounted at /	25.000G ▶

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

Storage configuration

[ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

Adding GPT partition to VBOX\_HARDDISK\_VB62bcc9f6-d5c7470e

Size (max 19.997G): 19.997G

Format: [ ext4 ▼ ]

Mount: [ /home ▼ ]

[ Create ]

[ Cancel ]

partition 4 new, to be formatted as ext4, mounted at: 4, 25.000G ▶

[ Done ]

[ Reset ]

[ Back ]

Tamaño: tamaño libre restante.  
 Sistema de archivos: ext4  
 Punto de montaje: /home  
 Seleccionar "Create" y pulsar ENTER

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ /home	19.997G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

AVAILABLE DEVICES

No available devices

[ Create software RAID (md) ▶ ]  
[ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]
partition 4	new, to be formatted as ext4, mounted at /	25.000G ▶ ]
partition 5	new, to be formatted as ext4, mounted at /home	19.997G ▶ ]

[ Done ]  
[ Reset ]  
[ Back ]

La partición /home ha sido configurada correctamente. De nuevo, seleccionar espacio libre (free space) con las teclas ↓↑

Podemos observar que ya no hay espacio libre para asignar a nueva partición.

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ /home	19.997G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

AVAILABLE DEVICES

No available devices

[ Create software RAID (md) ▶ ]  
 [ Create volume group (LVM) ▶ ]

USED DEVICES

DEVICE	TYPE	SIZE
[ VBOX_HARDDISK_VB62bcc9f6-d5c7470e	local disk	50.000G ▶ ]
partition 1	new, BIOS grub spacer	1.000M ▶ ]
partition 2	new, to be formatted as ext4, mounted at /boot	1.000G ▶ ]
partition 3	new, to be formatted as swap	4.000G ▶ ]
partition 4	new, to be formatted as ext4, mounted at /	25.000G ▶ ]
partition 5	new, to be formatted as ext4, mounted at /home	19.997G ▶ ]

[ Done ]  
[ Reset ]  
[ Back ]

Seleccionar “Done”  
con las teclas ↓↑ y  
pulsar ENTER

Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ /home	19.997G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

Confirm destructive action

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[ No ]

[ Continue ]

partition 5 new, to be formatted as ext4, mounted at /home 19.997G ▶

[ Done ]

[ Reset ]

[ Back ]

Seleccionar “Continue” con las teclas ↓↑



Storage configuration [ Help ]

FILE SYSTEM SUMMARY

MOUNT POINT	SIZE	TYPE	DEVICE TYPE
[ /	25.000G	new ext4	new partition of local disk ▶ ]
[ /boot	1.000G	new ext4	new partition of local disk ▶ ]
[ /home	19.997G	new ext4	new partition of local disk ▶ ]
[ SWAP	4.000G	new swap	new partition of local disk ▶ ]

Confirm destructive action

Selecting Continue below will begin the installation process and result in the loss of data on the disks selected to be formatted.

You will not be able to return to this or a previous screen once the installation has started.

Are you sure you want to continue?

[ No ]

[ Continue ]

partition 5 new, to be formatted as ext4, mounted at /home 19.997G ▶

Pulsar ENTER

[ Done ]

[ Reset ]

[ Back ]

## Profile setup

[ Help ]

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name:

Your servers name:

The name it uses when it talks to other computers.

Pick a username:

Choose a password:

Confirm your password:

En esta pantalla configuraremos los datos del usuario que se creará durante el proceso de instalación y el nombre del servidor. Observa que los únicos caracteres que se pueden utilizar para el nombre del servidor son letras minúsculas, números y guion. No obstante, el nombre del servidor podrá ser cambiado posteriormente.

[ Done ]

Profile setup

[ Help ]

Enter the username and password you will use to log in to the system. You can configure SSH access on the next screen but a password is still needed for sudo.

Your name: smr

Your servers name: server-1  
The name it uses when it talks to other computers.

Pick a username: smr

Choose a password: \*\*\*\*

Confirm your password: \*\*\*\*

[ Done ]

En el ejemplo, el nombre del usuario se será smr y se autenticará como smr. El servidor se llamará server-1.

Seleccionar "Done" con las teclas ↓↑ y pulsar ENTER.

## Upgrade to Ubuntu Pro

[ Help ]

Upgrade this machine to Ubuntu Pro for security updates on a much wider range of packages, until 2032. Assists with FedRAMP, FIPS, STIG, HIPAA and other compliance or hardening requirements.

[ About Ubuntu Pro ► ]

( ) Enable Ubuntu Pro

(X) Skip for now

You can always enable Ubuntu Pro later via the 'pro attach' command.

Pulsar ENTER.

[ Continue ]

[ Back ]

## SSH Setup

[ Help ]

You can choose to install the OpenSSH server package to enable secure remote access to your server.

☐ Install OpenSSH server

Import SSH identity: [ No ▼ ]  
You can import your SSH keys from GitHub or Launchpad.

Import Username:

☒ Allow password authentication over SSH

En este paso de la instalación podemos aprovechar para instalar el servicio SSH en nuestro servidor. Este servicio puede instalarse posteriormente, no obstante, nosotros optamos por instalarlo en este momento.

Seleccionar con la tecla ESPACION o ENTER.

[ Done        ]  
[ Back       ]

## SSH Setup

[ Help ]

You can choose to install the OpenSSH server package to enable secure remote access to your server.

[X] Install OpenSSH server

Import SSH identity: [ No ▼ ]

You can import your SSH keys from GitHub or Launchpad.

Import Username:

[X] Allow password authentication over SSH

Vamos a seleccionar que no se importen las claves (Import SSH identity). Lo único que ocurrirá es que la primera vez que intentemos utilizar el servidor SSH nos solicitará que aceptemos las claves.

Seleccionar "Done" con las teclas ↓↑

[ Done ]  
[ Back ]

## SSH Setup

[ Help ]

You can choose to install the OpenSSH server package to enable secure remote access to your server.

[X] Install OpenSSH server

Import SSH identity: [ No ▼ ]

~~You can import your SSH keys from GitHub or Launchpad.~~

Import Username:

[X] Allow password authentication over SSH

Pulsar ENTER.

[ Done ]

[ Back ]

## Featured Server Snaps

[ Help ]

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

[ ]	microk8s	Kubernetes for workstations and appliances	▶
[ ]	nextcloud	Nextcloud Server - A safe home for all your data	▶
[ ]	wekan	Open-Source kanban	▶
[ ]	kata-containers	Build lightweight VMs that seamlessly plug into the c	▶
[ ]	docker	Docker container runtime	▶
[ ]	canonical-livepatch	Canonical Livepatch Client	▶
[ ]	rocketchat-server	Rocket.Chat server	▶
[ ]	mosquitto	Eclipse Mosquitto MQTT broker	▶
[ ]	etcd	Resilient key-value store by CoreOS	▶
[ ]	powershell	PowerShell for every system!	▶
[ ]	sabnzbd	SABnzbd	▶
[ ]	wormhole	get things from one computer to another, safely	▶
[ ]	aws-cli	Universal Command Line Interface for Amazon Web Servi	▶
[ ]	google-cloud-sdk	Google Cloud SDK	▶
[ ]	slcli	Python based SoftLayer API Tool.	▶
[ ]	doctl	The official DigitalOcean command line interface	▶
[ ]	conjure-up	Package runtime for conjure-up spells	▶
[ ]	postgresql10	PostgreSQL is a powerful, open source object-relation	▶
[ ]	heroku	CLI client for Heroku	▶
[ ]	keepalived	High availability VRRP/BFD and load-balancing for Lin	▶
[ ]	prometheus	The Prometheus monitoring system and time series data	▶
[ ]	juju	Juju - a model-driven operator lifecycle manager for	▶

Podemos aprovechar para instalar otros servicios durante el proceso de instalación del sistema operativo. En nuestro caso, no instalaremos nada mas.

[ Done ]  
[ Back ]



Featured Server Snaps

[ Help ]

These are popular snaps in server environments. Select or deselect with SPACE, press ENTER to see more details of the package, publisher and versions available.

[ ]	microk8s	Kubernetes for workstations and appliances	▶
[ ]	nextcloud	Nextcloud Server - A safe home for all your data	▶
[ ]	wekan	Open-Source kanban	▶
[ ]	kata-containers	Build lightweight VMs that seamlessly plug into the c	▶
[ ]	docker	Docker container runtime	▶
[ ]	canonical-livepatch	Canonical Livepatch Client	▶
[ ]	rocketchat-server	Rocket.Chat server	▶
[ ]	mosquitto	Eclipse Mosquitto MQTT broker	▶
[ ]	etcd	Resilient key-value store by CoreOS	▶
[ ]	powershell	PowerShell for every system!	▶
[ ]	sabnzbd	SABnzbd	▶
[ ]	wormhole	get things from one computer to another, safely	▶
[ ]	aws-cli	Universal Command Line Interface for Amazon Web Servi	▶
[ ]	google-cloud-sdk	Google Cloud SDK	▶
[ ]	slcli	Python based SoftLayer API Tool.	▶
[ ]	doctl	The official DigitalOcean command line interface	▶
[ ]	conjure-up	Package runtime for conjure-up spells	▶
[ ]	postgresql10	PostgreSQL is a powerful, open source object-relation	▶
[ ]	heroku	CLI client for Heroku	▶
[ ]	keepalived	High availability VRRP/BFD and load-balancing for Lin	▶
[ ]	prometheus	The Prometheus monitoring system and time series data	▶
[ ]	juju	Juju - a model-driven operator lifecycle manager for	▶

[ Done ]

[ Back ]

Seleccionar "Done" con las teclas ↓↑ y pulsar ENTER.

Installing system

[ Help ]

```
    curtin command extract
      acquiring and extracting image from cp:///tmp/tmpi9a8uvqw/mount
configuring keyboard
    curtin command in-target
executing curtin install curthooks step
    curtin command install
      configuring installed system
        running 'curtin curthooks'
          curtin command curthooks
            configuring apt
            installing missing packages
            Installing packages on target system: ['grub-pc']
            configuring iscsi service
            configuring raid (mdadm) service
            installing kernel
            setting up swap
            apply networking config
            writing etc/fstab
            configuring multipath
            updating packages on target system
            configuring pollinate user-agent on target
            updating initramfs configuration
            configuring target system bootloader
            installing grub to target devices
final system configuration
  calculating extra packages to install
  installing openssh-server
    retrieving openssh-server \
    curtin command system-install |
```

El sistema operativo  
empieza a instalarse.

[ View full log ]

```
Install complete! [ Help ]

configuring apt configuring apt
installing missing packages
Installing packages on target system: ['grub-pc']
configuring iscsi service
configuring raid (mdadm) service
installing kernel
setting up swap
apply networking config
writing etc/fstab
configuring multipath
updating packages on target system
configuring pollinate user-agent on target
updating initramfs configuration
configuring target system bootloader
installing grub to target devices
final system configuration
calculating extra packages to install
installing openssh-server
  retrieving openssh-server
  curtin command system-install
  unpacking openssh-server
  curtin command system-install
configuring cloud-init
downloading and installing security updates
  curtin command in-target
restoring apt configuration
  curtin command in-target
subiquity/Late/run

[ View full log ]
[ Reboot Now ]
```

Esperar a que aparezca la opción “Reboot Now” o “Reiniciar Ahora”. Seleccionar dicha opción para reiniciar el equipo y así finalizar la instalación.

Install complete!

[ Help ]

```
configuring apt configuring apt
installing missing packages
Installing packages on target system: ['grub-pc']
configuring iscsi service
configuring raid (mdadm) service
installing kernel
setting up swap
apply networking config
writing etc/fstab
configuring multipath
updating packages on target system
configuring pollinate user-agent on target
updating initramfs configuration
configuring target system bootloader
installing grub to target devices
final system configuration
calculating extra packages to install
installing openssh-server
  retrieving openssh-server
  curtin command system-install
  unpacking openssh-server
  curtin command system-install
configuring cloud-init
downloading and installing security updates
  curtin command in-target
restoring apt configuration
  curtin command in-target
subiquity/Late/run
```

[ View full log ]

[ Reboot Now ]

Seleccionar “Reboot  
Now” con las teclas ↓↑  
y pulsar ENTER.

```
[FAILED] Failed unmounting /cdrom.  
Please remove the installation medium, then press ENTER:  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.  
[FAILED] Failed unmounting /cdrom.
```

El equipo se está reiniciando.

Pulsar ENTER para quitar el medio de instalación (ISO) y continuar con el proceso.

```
server-1 login: [ 15.708296] cloud-init[1303]: Generating locales (this might take a while)...
[ 17.379966] cloud-init[1303]: es_ES.UTF-8... done
[ 17.380380] cloud-init[1303]: Generation complete.
[ 17.642778] cloud-init[1303]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:config' at Sun, 24 Dec 2023 09:44:16 +0000. Up 15.55 seconds.
ci-info: no authorized SSH keys fingerprints found for user smr.
<14>Dec 24 09:44:18 cloud-init: #####
<14>Dec 24 09:44:18 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
<14>Dec 24 09:44:18 cloud-init: 1024 SHA256:nLZLysXbWc8cVY9Gqgnu1Tq/2K7An0kbs/h+Sa49hoo root@server-1 (DSA)
<14>Dec 24 09:44:18 cloud-init: 256 SHA256:c4YbK97a2Qn723MpqiyeUe/bfGkT011PwFk7d17ALCw root@server-1 (ECDSA)
<14>Dec 24 09:44:18 cloud-init: 256 SHA256:L4Rpo80ZRewuRY0AYTHp/iC3Mrd1UeVY0SPnzaX0eQc root@server-1 (ED25519)
<14>Dec 24 09:44:18 cloud-init: 3072 SHA256:yyEAX01jmW2st02V38pEnHW9Xe7GIyH1mxdAnFlsI7s root@server-1 (RSA)
<14>Dec 24 09:44:18 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Dec 24 09:44:18 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBH0/UMV9Ia/R3ZiKyLYqdwubBXeQZE192vSWI5dmcB0s1jBZjZi8ZoQf1UmglqBEKnSSNPe+YYcki/cBs38o0c= root@server-1
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJt30RptzN3WK3nSY1GcRyTb4KHa+nD3Vqc1vfi61UK3 root@server-1
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCegkWWXhqDXaXRyqFEvAA1DBmhKGZyFL7yJ4ufZE50KRrSVZFyXw0VaANMC6ILh1685msj1417h8SMZCQmmWrUeyJ8G/s4BbkTZK5wkYGOjWAKAn0s41y8vkuqqZcncQoSs4YyWC4icNVAiXe9+965AyTk0Ni94vHnjWEPVMIb3bU0dOCF3ymNOMMMmTWY8xoTc+BD+RGaf1G1HrEJI2MTy2NUZ9rdqBZ+wTeKtFeCcV1iDRaqTOKPevom4Tc2j9YAR6gUHBp1L5jesQAFBw/fzdUATNH0WanCJEUcq2076poQEVN73vyH68Mm49kfK1PH+dYWNmrVl+Mn2TVzChIy7mdACi6Y5KtZsdDrAXFr+bVewInwW6T22M8vIYC7BDpC1dieCgefS1f5DyNvPIoC12r4tIiBC3cnFQ4QjMegtWcy50Mi+a0FkpcKu+e9WpApy1MzIJc06+Pv92gy+y+Z/Qqbix7xGqckZrH2m6Aw4Cgbnbmg1QFuxoHNDYcPjCUU= root@server-1
-----END SSH HOST KEY KEYS-----
[ 18.350861] cloud-init[1345]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:final' at Sun, 24 Dec 2023 09:44:18 +0000. Up 18.15 seconds.
[ 18.351098] cloud-init[1345]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 finished at Sun, 24 Dec 2023 09:44:18 +0000. DataSource DataSourceNone. Up 18.34 seconds
[ 18.351261] cloud-init[1345]: 2023-12-24 09:44:18,942 - cc_final_message.py[WARNING]: Used fallback datasource
```

Instalación finalizada. Pulsar ENTER para acceder al sistema

```
server-1 login: [ 15.708296] cloud-init[1303]: Generating locales (this might take a while)...
[ 17.379966] cloud-init[1303]: es_ES.UTF-8... done
[ 17.380380] cloud-init[1303]: Generation complete.
[ 17.642778] cloud-init[1303]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:config' at Sun, 24 Dec 2023 09:44:16 +0000. Up 15.55 seconds.
ci-info: no authorized SSH keys fingerprints found for user smr.
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<14>Dec 24 09:44:18 cloud-init: -----BEGIN SSH HOST KEY FINGERPRINTS-----
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<14>Dec 24 09:44:18 cloud-init: 256 SHA256:c4YbK97a2Qn723MpqiyeUe/bfGkT0l1PwFk7d17ALCw root@server-1 (ECDSA)
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<14>Dec 24 09:44:18 cloud-init: -----END SSH HOST KEY FINGERPRINTS-----
<14>Dec 24 09:44:18 cloud-init: #####
-----BEGIN SSH HOST KEY KEYS-----
ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBH0/UMV9Ia/R3ZiKyLYqdwubBXeQZE192vSWI5dmcB0s1jBzjZI8ZoQf1UmglqBEKnSSNPe+YYcki/cBs38o0c= root@server-1
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJt30RptN3WK3nSYlGcRyTb4KHa+nD3Vqc1vfi6lUK3 root@server-1
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCegkWWXhq0XaXRyqFEvAA1DBmhKGZyFL7yJ4ufZE50KRrSVZFyXw0VaANMC6ILh1685msj1417h8SMZCQmmWrUeyJ8G/s4BbkTZK5wkYGOjWAKAn0s41y8vkuqgZcnQoSs4YyWC4icNVAiXe9+965AyTk0Ni94vHnjWEPVMIb3bU0dOCF3ymNOMMMmTWY8xoTc+BD+RGaf1G1HrEJI2MTy2NUZ9rdqBZ+wTeKtFeCcV1iDRaqT0KPeVom4Tc2j9YAr6gUHBp1L5jesQAFBw/fzdUATNH0WanCJEUcq2D76poQEVN73vyH68Mm49kfK1PH+dYWNmrVl+Mn2TVzChIy7mdACi6Y5KtZsdDrAXFr+bVewInwK6T22M8vIYC7BDpC1dieCgefS1f5DyNvPIoC12r4tIiBC3cnFQ4QjMegtWcy50Mi+a0FkpcKu+e9WpApy1MzIJc06+Pv92gy+y+Z/Qqbix7xGqckZrH2m6Aw4Cgbnbmg1QFuxoHNDYcQpJcUU= root@server-1
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[ 18.350861] cloud-init[1345]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:final' at Sun, 24 Dec 2023 09:44:18 +0000. Up 18.15 seconds.
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[ 18.351261] cloud-init[1345]: 2023-12-24 09:44:18,942 - cc_final_message.py[WARNING]: Used fallback datasource
server-1 login: _
```

El sistema nos pide nombre de usuario

```
server-1 login: [ 15.708296] cloud-init[1303]: Generating locales (this might take a while)...
[ 17.379966] cloud-init[1303]: es_ES.UTF-8... done
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ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIJt30RptN3WK3nSYlGcRyTb4KHa+nD3Vqc1vfi6lUK3 root@server-1
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCegkWWXhqDXaXRYqFEvAA1DBmhKGZyFL7yJ4ufZE50KRrSVZFyXw0VaANMC6ILh1685msj1417h8SMZCQmmWrUeyJ8G/s4BbkTZK5wkYGOjWAKAn0s41y8vkuqQZcnQoS4YyWC4icNVAiXe9+965AyTk0Ni94vHnjWEPVMIb3bU0dOCF3ymNOMMMmTWY8xoTc+BD+RGaf1G1HrEJI2MTy2NUZ9rdqBZ+wTeKtFeCcV1iDRaqT0KPEvom4Tc2j9YAR6gUHBp1L5jesQAFBw/fzdUATNH0WanCJEUcq2076poQEVN73vyH68Mm49kfK1PH+dYWNmrVl+Mn2TVzChIy7mdACi6Y5KtZsdDrAXFr+bVewInwK6T22M8vIYC7BDpC1dieCgefS1f5DyNvPIoC12r4tIiBC3cnFQ4QjMegtWcy50Mi+a0FkpcKu+e9WpApy1MzIJc06+Pv92gy+y+Z/Qqbix7xGqckZrH2m6Aw4Cgbnbmg1QFuxoHNDYcQpJcUU= root@server-1
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[ 18.351261] cloud-init[1345]: 2023-12-24 09:44:18,942 - cc_final_message.py[WARNING]: Used fallback datasource
server-1 login: smr
```

Tecleamos el nombre del usuario que hemos creado.



```
[ 17.379966] cloud-init[1303]: es_ES.UTF-8... done
[ 17.380380] cloud-init[1303]: Generation complete.
[ 17.642778] cloud-init[1303]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:config' at Sun, 24 Dec 2023 09:44:16 +0000. Up 15.55 seconds.
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<14>Dec 24 09:44:18 cloud-init: 256 SHA256:L4Rpo80ZRewuRY0AYTHp/iC3MrdlUeVY0SPnzaX0eQc root@server-1 (ED25519)
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ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCegkWWXhq0XaXRYqFEvAAlDBmhKGZyFL7yJ4ufZE50KRrSVZFyXw0VaANMC6ILh1685msjl417h8SMZCQmmWrUeyJ8G/s4BbkTZK5wkYGOjWAKAn0s41y8vkuqqZcnQoSs4YyWC4icNVAiXe9+965AyTkONi94vHnjWEPVMI3bU0dOCF3ymNOMMMTWY8xoTc+BD+RGaf1G1HrEJI2MTy2NUZ9rdqBZ+wTeKtFeCcV1iORaqTOKPevom4Tc2j9YAr6gUhbPIL5jesQAFBw/fzdUATNH0WanCJEUCq2076poQEVN73vyH68Mm49kfK1PH+dYWNmrVl+Mn2TVzChIy7mdACi6Y5KtZsdDrAXFr+bVewInwW6T22M8vIYC7BDpC1dieCgefS1f5DyNvPIoC12r4tIiBC3cnFQ4QjMegtWcy50Mi+a0FkpcKu+e9WpApy1MzIJc06+Pv92gy+y+Z/Qqbix7xGqckZRh2m6Aw4Cgbnbmg1QFuxoHNdYCqPjcUU= root@server-1
-----END SSH HOST KEY KEYS-----
[ 18.350861] cloud-init[1345]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 running 'modules:final' at Sun, 24 Dec 2023 09:44:18 +0000. Up 18.15 seconds.
[ 18.351098] cloud-init[1345]: Cloud-init v. 23.1.2-0ubuntu0~20.04.2 finished at Sun, 24 Dec 2023 09:44:18 +0000. DataSource DataSourceNone. Up 18.34 seconds
[ 18.351261] cloud-init[1345]: 2023-12-24 09:44:18,942 - cc_final_message.py[WARNING]: Used fallback ck datasource

server-1 login: smr
Password: _
```

Tecleamos la contraseña que hemos configurado y ENTER.

```
Password:
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-169-generic x86_64)

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

System information as of dom 24 dic 2023 09:46:12 UTC

System load:  0.04      Processes:           114
Usage of /home: 0.0% of 19.51GB   Users logged in:     0
Memory usage:  5%        IPv4 address for enp0s3: 10.0.2.15
Swap usage:    0%

Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

smr@server-1:~$
```

Hemos iniciado sesión como se observa en el prompt.

Password:

Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.4.0-169-generic x86\_64)

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

System information as of dom 24 dic 2023 09:46:12 UTC

System load:	0.04	Processes:	114
Usage of /home:	0.0% of 19.51GB	Users logged in:	0
Memory usage:	5%	IPv4 address for enp0s3:	10.0.2.15
Swap usage:	0%		

Expanded Security Maintenance for Applications is not enabled.

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Enable ESM Apps to receive additional future security updates.  
See <https://ubuntu.com/esm> or run: `sudo pro status`

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the exact distribution terms for each program are described in the  
individual files in `/usr/share/doc/*/copyright`.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.

To run a command as administrator (user "root"), use "`sudo <command>`".  
See "`man sudo_root`" for details.

smr@server-1:~\$ **poweroff**

Para apagar el equipo  
utilizamos el comando:  
**poweroff**