

Iniciar máquina virtual CentOS



Iniciar sesión en terminal utilizando: `ssh centos@localhost`
con contraseña centos

```
CentOS Stream 9
Kernel 5.14.0-267.el9.x86_64 on an x86_64

vbox login: ssh centos@localhost
```

-no funciona

Usuario centos

pass: centos

```
vbox login: centos
Password:
Last login: Fri Aug 1 19:39:24 from ::1
[centos@vbox ~]$
```

Inicio del laboratorio 1 startlab1

```
[centos@vbox ~]$ startlab1

PLAY [Launch Linux Foundations Lab 1] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [Open port 80] *****
ok: [localhost]

TASK [Install httpd] *****
ok: [localhost]

PLAY RECAP *****
localhost : ok=3  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

[centos@vbox ~]$
```

Contexto: Has recibido una dirección IP de un servidor al que te conectarás vía SSH. El nombre de usuario es centos y la contraseña te la dará tu instructor/a. Tiene instalado un software, httpd, que es el servidor web más popular del mundo y que sirve aproximadamente a un tercio del tráfico de Internet. Este documento puede estar alojado en un servidor httpd en otro lugar en este momento.

Prueba: Iniciar httpd

Una vez que hayas completado esta tarea, podrás entrar en `http://localhost` en tu navegador. Se cargará una "PÁGINA DE PRUEBA DEL SERVIDOR HTTP" - esto significa que has completado la tarea con éxito.

Tareas

1. Conéctate a tu VM Linux usando un Cliente SSH
2. Averigua cómo iniciar la aplicación httpd
3. Comprueba que se está ejecutando introduciendo `http://localhost` en tu navegador

Tiempo Adicional

¿Puedes cambiar lo que dice "PÁGINA DE PRUEBA DEL SERVIDOR HTTP"?

Detener el laboratorio

1. Detén el laboratorio con el siguiente comando: `stoplab1`
 - a. Si no obtienes ninguna salida, ¡todas las tareas se han completado!
 - b. Si obtienes salida, ¡todavía te queda trabajo por hacer!

Comandos usados:

sudo: Ejecuta comandos con privilegio root

systemctl: Control de servicios

-y: respuesta automática afirmativa

dnf: gestor de paquetes

ssh: Conexión segura a servidores o dispositivos remotos

ip a (ip address): mostrar y gestionar las direcciones IP y la configuración de interfaces de red.

1: identificar ip: utilizando el comando: ip a

Arroja la información de conexión entre todo la ip que usa (127.0.0.1)

```
[centos@vbox ~]$ ip a # o 'hostname -I'
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen
0
    link/ether 08:00:27:90:07:e5 brd ff:ff:ff:ff:ff:ff
    inet 10.0.2.15/24 brd 10.0.2.255 scope global dynamic noprefixroute enp0s3
        valid_lft 85080sec preferred_lft 85080sec
    inet6 fd00::a00:27ff:fe90:7e5/64 scope global dynamic noprefixroute
        valid_lft 86386sec preferred_lft 14386sec
    inet6 fe80::a00:27ff:fe90:7e5/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
[centos@vbox ~]$
```

2. Instalar openssh-server:

```
[centos@vbox ~]$ sudo dnf install openssh-server
Last metadata expiration check: 0:19:10 ago on Mon 04 Aug 2025 01:36:23 BST.
Package openssh-server-8.7p1-28.el9.x86_64 is already installed.
Dependencies resolved.
=====
Package                Architecture      Version           Repository        Size
=====
Upgrading:
openssh                 x86_64            8.7p1-46.el9      baseos            458 k
openssh-clients         x86_64            8.7p1-46.el9      baseos            713 k
openssh-server          x86_64            8.7p1-46.el9      baseos            457 k
=====
Transaction Summary
=====
Upgrade 3 Packages

Total download size: 1.6 M
Is this ok [y/N]:
Total                               1.0 MB/s | 1.6 MB      00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing                : 1/1
  Running scriptlet: openssh-8.7p1-46.el9.x86_64 1/6
  Upgrading          : openssh-8.7p1-46.el9.x86_64 1/6
  Upgrading          : openssh-clients-8.7p1-46.el9.x86_64 2/6
  Running scriptlet: openssh-clients-8.7p1-46.el9.x86_64 2/6
  Running scriptlet: openssh-server-8.7p1-46.el9.x86_64 3/6
  Upgrading          : openssh-server-8.7p1-46.el9.x86_64 3/6
  Running scriptlet: openssh-server-8.7p1-46.el9.x86_64 3/6
  Running scriptlet: openssh-server-8.7p1-28.el9.x86_64 4/6
  Cleanup           : openssh-server-8.7p1-28.el9.x86_64 4/6
  Running scriptlet: openssh-server-8.7p1-28.el9.x86_64 4/6
  Running scriptlet: openssh-clients-8.7p1-28.el9.x86_64 5/6
  Cleanup           : openssh-clients-8.7p1-28.el9.x86_64 5/6
  Cleanup           : openssh-8.7p1-28.el9.x86_64 6/6
  Running scriptlet: openssh-8.7p1-28.el9.x86_64 6/6
[ 1839.387379] systemd-rc-local-generator[2228]: /etc/rc.d/rc.local is not marked executable, skipping.
  Verifying          : openssh-8.7p1-46.el9.x86_64 1/6
  Verifying          : openssh-8.7p1-28.el9.x86_64 2/6
  Verifying          : openssh-clients-8.7p1-46.el9.x86_64 3/6
  Verifying          : openssh-clients-8.7p1-28.el9.x86_64 4/6
  Verifying          : openssh-server-8.7p1-46.el9.x86_64 5/6
  Verifying          : openssh-server-8.7p1-28.el9.x86_64 6/6

Upgraded:
  openssh-8.7p1-46.el9.x86_64                openssh-clients-8.7p1-46.el9.x86_64
  openssh-server-8.7p1-46.el9.x86_64
Complete!
[centos@vbox ~]$ _
```

3. Iniciar y habilitar servidor ssh en VM:

```
[centos@vbox ~]$ sudo systemctl start sshd
[centos@vbox ~]$ sudo systemctl enable sshd
[ 2913.052015] systemd-rc-local-generator[2556]: /etc/rc.d/rc.local is not marked executable, skipping.
[centos@vbox ~]$ _
```

3.1 Verificar el estado del servidor:

```
[centos@vbox ~]$ sudo systemctl status sshd
● sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; preset: enabled)
   Active: active (running) since Mon 2025-08-04 01:56:49 BST; 19min ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Main PID: 2476 (sshd)
     Tasks: 1 (limit: 11113)
    Memory: 1.4M
       CPU: 32ms
    CGroup: /system.slice/sshd.service
            └─2476 "sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups"

Aug 04 01:56:49 vbox systemd[1]: Starting OpenSSH server daemon...
Aug 04 01:56:49 vbox sshd[2476]: Server listening on 0.0.0.0 port 22.
Aug 04 01:56:49 vbox sshd[2476]: Server listening on :: port 22.
Aug 04 01:56:49 vbox systemd[1]: Started OpenSSH server daemon.
[centos@vbox ~]$
```

4. establecer conexión (máquina local):

usuario@ip de la MV

Ssh centos@127.0.0.1

```
[centos@vbox ~]$ ssh usuario@127.0.0.1
The authenticity of host '127.0.0.1 (127.0.0.1)' can't be established.
ED25519 key fingerprint is SHA256:s9UZ/10mHpJdKX/B3reE58AX1pd4CHjjFYidRmLK8Y.
This host key is known by the following other names/addresses:
  ~/.ssh/known_hosts:1: localhost
Are you sure you want to continue connecting (yes/no/[fingerprint])?
[centos@vbox ~]$ ssh centos@127.0.0.1
Last login: Mon Aug  4 01:46:11 2025 from ::1
[centos@vbox ~]$ _
```

Iniciar httpd en CentOs

1. instalar httpd:

```
[centos@vbox ~]$ sudo dnf install httpd -y
```

2. Iniciar httpd:

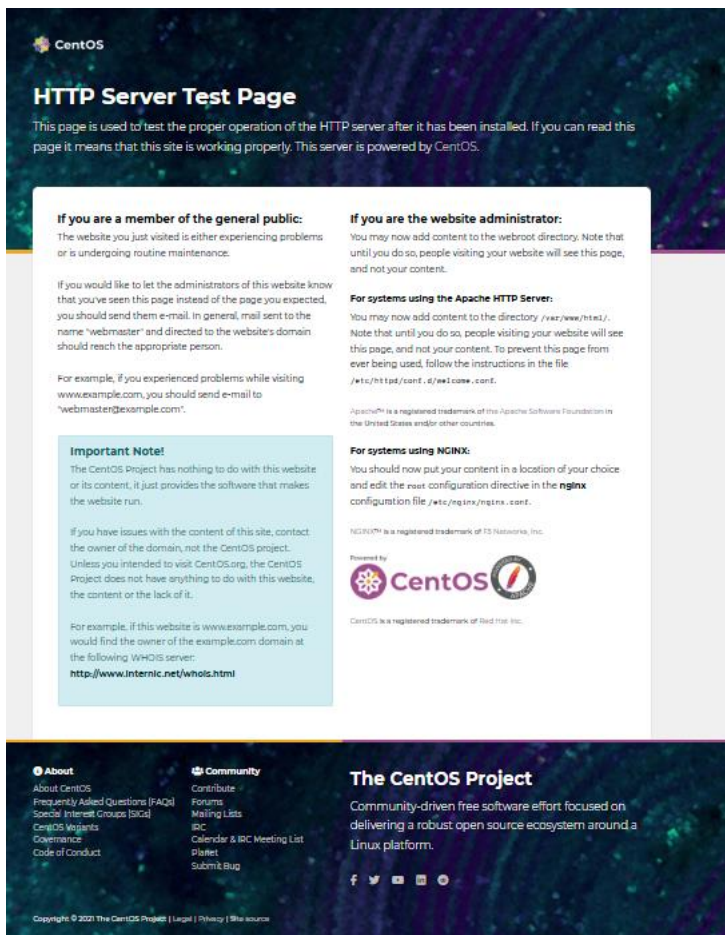
```
[centos@vbox ~]$ sudo systemctl start httpd
```

2.1 verificar estado:

```
centos@vbox ~]$ sudo systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd
   Active: active (running) since Mon 2025-08-04
     Docs: man:httpd.service(8)
   Main PID: 2622 (httpd)
   Status: "Total requests: 0; Idle/Busy workers
     Tasks: 177 (limit: 11113)
    Memory: 38.5M
      CPU: 194ms
   CGroup: /system.slice/httpd.service
           └─2622 /usr/sbin/httpd -DFOREGROUND
             2623 /usr/sbin/httpd -DFOREGROUND
             2624 /usr/sbin/httpd -DFOREGROUND
             2625 /usr/sbin/httpd -DFOREGROUND
             2626 /usr/sbin/httpd -DFOREGROUND
```

Verificar actividad

Localhost del navegador:



cierre del laboratorio:

```
centos@vbox ~]$ stoplab1
centos@vbox ~]$ _
```