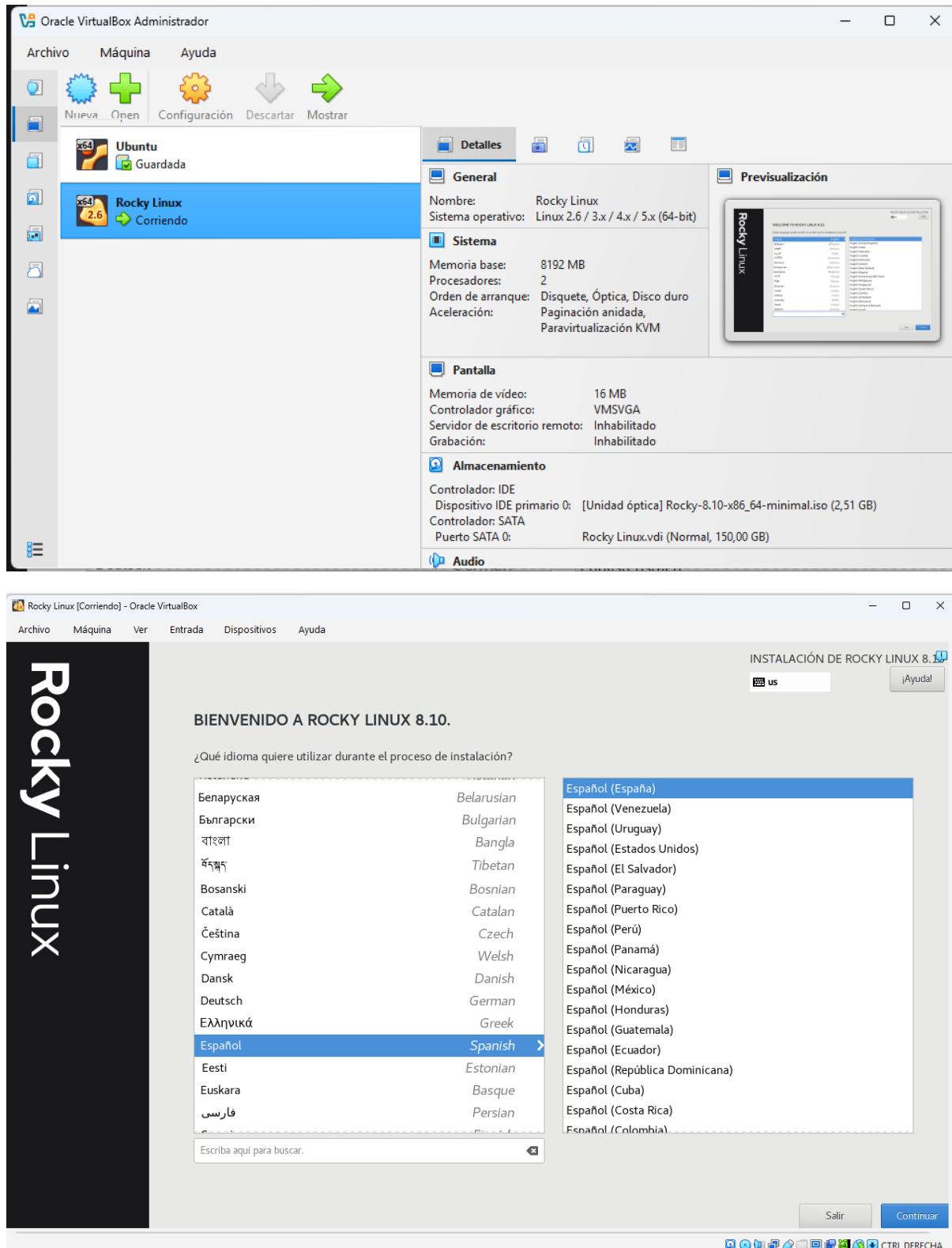
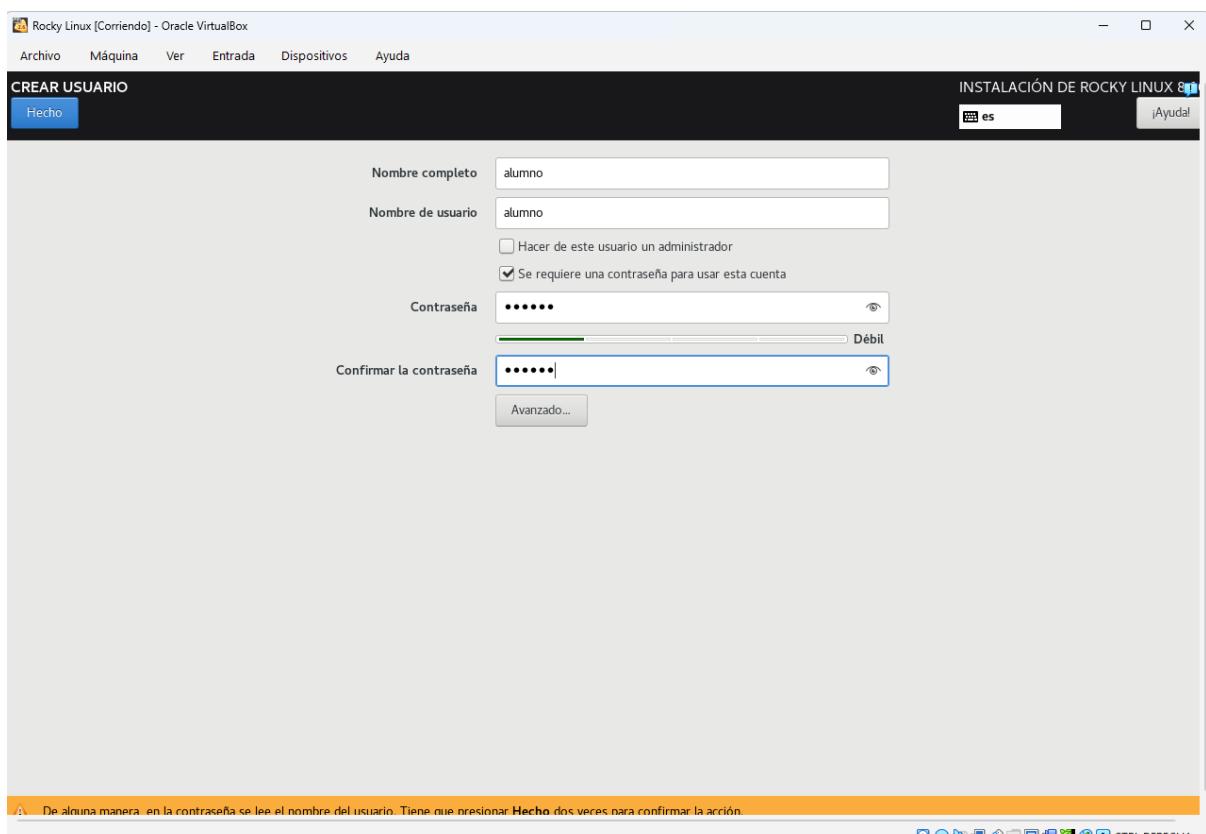
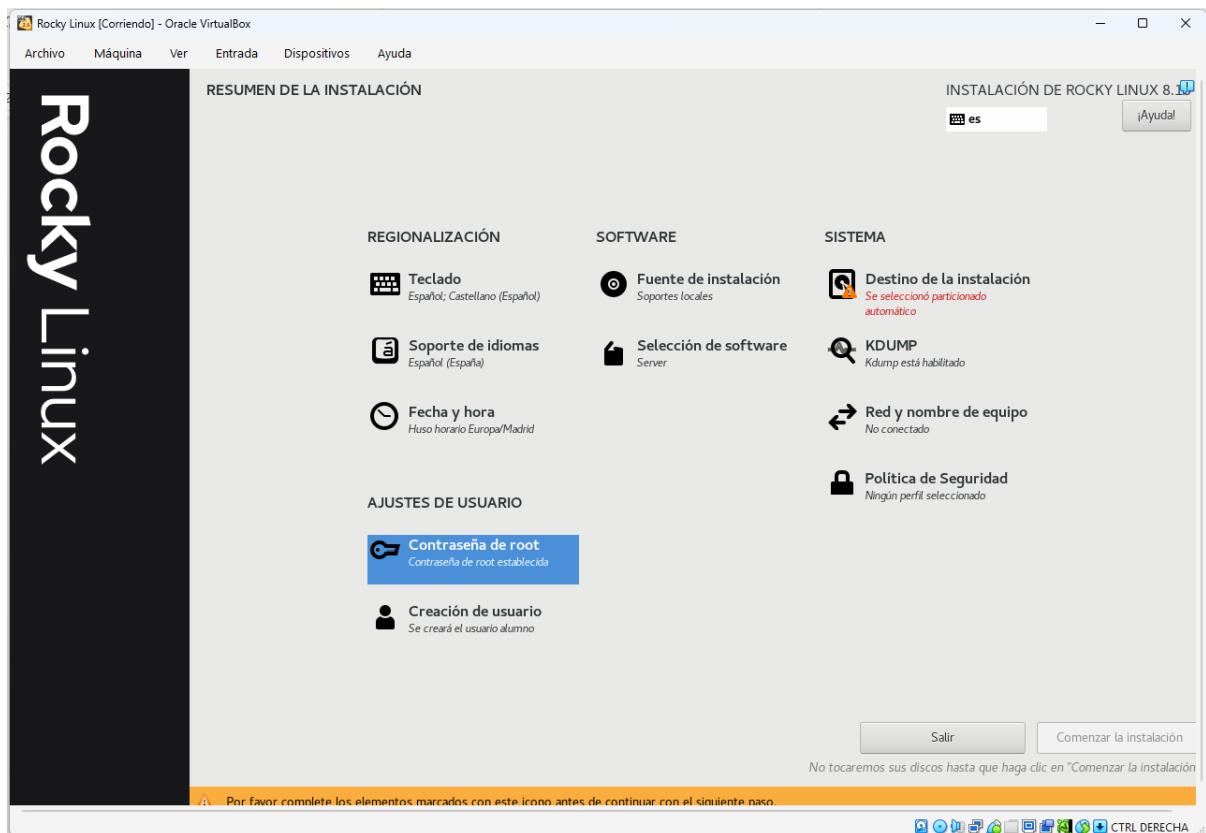


PR_02.1 Dani Gayol Rodríguez

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|--|---|
| PR_02.1 Dani Gayol Rodríguez..... | 1 |
| Instalación de Rocky Linux..... | 1 |
| 1. Configure Hostnames and Networking | 6 |
| 2. Configure Security Settings | 7 |
| 3. Configure SSH Access | 8 |
| 4. Install Required Packages on All Machines | 9 |

Instalación de Rocky Linux



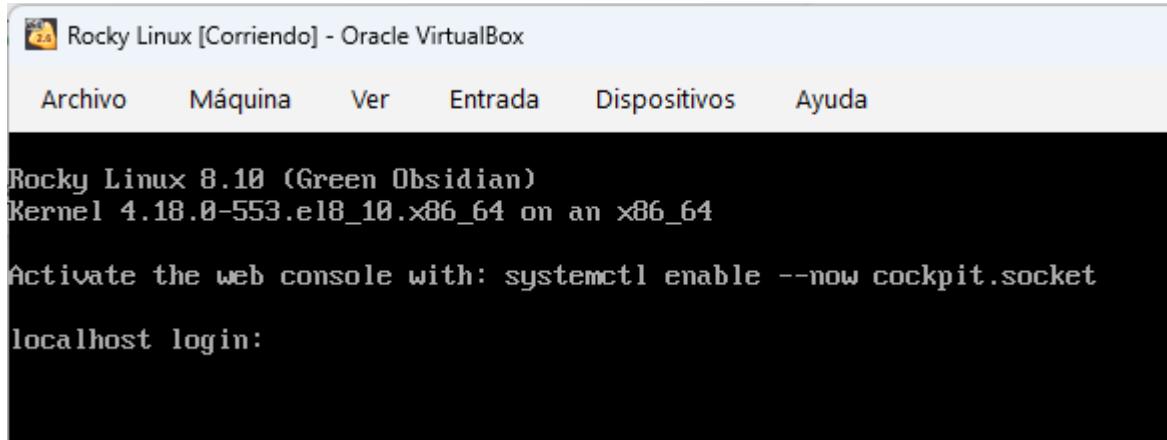


Permisos de administrador para usuario “alumno”

```
Rocky Linux 8.10 (Green Obsidian)
Kernel 4.18.0-553.el8_10.x86_64 on an x86_64

Activate the web console with: systemctl enable --now cockpit.socket

localhost login: root
Password:
[root@localhost ~]# usermod -aG wheel alumno
[root@localhost ~]# groups alumno
alumno : alumno wheel
```



```
[alumno@localhost ~]$ nmcli device status
DEVICE  TYPE      STATE      CONNECTION
enp0s3  ethernet  desconectado --
lo      loopback  sin gestión  --
[alumno@localhost ~]$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 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 1000
    link/ether 08:00:27:9b:b2:00 brd ff:ff:ff:ff:ff:ff
[alumno@localhost ~]$ nmcli con show
NAME      UUID                                  TYPE      DEVICE
enp0s3   06eb49f9-1643-4da2-bc04-9996b0f9a720  ethernet --
```

```
GNU nano 2.9.8

TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
BOOTPROTO=dhcp
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=eui64
NAME=enp0s3
UUID=06eb49f9-1643-4da2-bc04-9996b0f9a720
DEVICE=enp0s3
ONBOOT=yes

IPADDR=10.140.42.118
PREFIX=22
GATEWAY=10.140.43.254
DNS1=8.8.8.8
DNS2=1.1.1.1
```

```
[alumno@localhost ~]$ sudo systemctl restart NetworkManager
[alumno@localhost ~]$ ip addr show enp0s3
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:9b:b2:00 brd ff:ff:ff:ff:ff:ff
        inet 10.140.42.118/22 brd 10.140.43.255 scope global noprefixroute enp0s3
            valid_lft forever preferred_lft forever
        inet 10.140.40.37/22 brd 10.140.43.255 scope global secondary dynamic noprefixroute enp0s3
            valid_lft 3579sec preferred_lft 3579sec
        inet6 fe80::a00:27ff:fe9b:b200/64 scope link noprefixroute
            valid_lft forever preferred_lft forever
```

```
[alumno@localhost ~]$ ping 10.140.42.218
PING 10.140.42.218 (10.140.42.218) 56(84) bytes of data.
64 bytes from 10.140.42.218: icmp_seq=1 ttl=128 time=1.28 ms
64 bytes from 10.140.42.218: icmp_seq=2 ttl=128 time=0.313 ms
64 bytes from 10.140.42.218: icmp_seq=3 ttl=128 time=0.308 ms
64 bytes from 10.140.42.218: icmp_seq=4 ttl=128 time=0.364 ms
64 bytes from 10.140.42.218: icmp_seq=5 ttl=128 time=0.306 ms
^C
--- 10.140.42.218 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4117ms
rtt min/avg/max/mdev = 0.306/0.514/1.280/0.383 ms
[alumno@localhost ~]$ ping 10.140.42.118
PING 10.140.42.118 (10.140.42.118) 56(84) bytes of data.
64 bytes from 10.140.42.118: icmp_seq=1 ttl=64 time=0.097 ms
64 bytes from 10.140.42.118: icmp_seq=2 ttl=64 time=0.165 ms
64 bytes from 10.140.42.118: icmp_seq=3 ttl=64 time=0.076 ms
64 bytes from 10.140.42.118: icmp_seq=4 ttl=64 time=0.038 ms
^C
--- 10.140.42.118 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3049ms
rtt min/avg/max/mdev = 0.038/0.094/0.165/0.046 ms
```

```
[alumno@localhost ~]$ sudo hostnamectl set-hostname nodo52
[alumno@localhost ~]$ hostnamectl
  Static hostname: nodo52
    Icon name: computer-vm
      Chassis: vm
    Machine ID: 9f2873eb6c8b4fb7b06840413f5913d8
      Boot ID: 846f7c1f1cf84920a65b185ec102dcf9
  Virtualization: oracle
Operating System: Rocky Linux 8.10 (Green Obsidian)
      CPE OS Name: cpe:/o:rocky:rocky:8:GA
        Kernel: Linux 4.18.0-553.e18_10.x86_64
      Architecture: x86-64
```

```
GNU nano 2.9.8                               /etc/hosts

127.0.0.1   localhost localhost.localdomain localhost4 localhost4.localdomain4
::1         localhost localhost.localdomain localhost6 localhost6.localdomain6

10.140.42.117 nodo51
10.140.42.118 nodo52
10.140.42.119 nodo53
10.140.42.120 nodo54
```

1. Configure Hostnames and Networking

1.1 Hostname

```
[alumno@localhost ambari-repo]$ hostnamectl
  Static hostname: nodo52
    Icon name: computer-vm
      Chassis: vm
    Machine ID: 9f2873eb6c8b4fb7b06840413f5913d8
      Boot ID: 846f7c1f1cf84920a65b185ec102dcf9
  Virtualization: oracle
Operating System: Rocky Linux 8.10 (Green Obsidian)
      CPE OS Name: cpe:/o:rocky:rocky:8:GA
        Kernel: Linux 4.18.0-553.e18_10.x86_64
    Architecture: x86-64
```

1.2 Configure /etc/hosts

```
[alumno@nodo52 ambari-repo]$ sudo su
[root@nodo52 ambari-repo]# vi /etc/hosts
```

```
127.0.0.1 localhost localhost.localdomain localhost4 localhost4.localdomain4
::1          localhost localhost.localdomain localhost6 localhost6.localdomain6

10.140.42.117 nodo51
10.140.42.118 nodo52
10.140.42.119 nodo53
10.140.42.120 nodo54
```

2. Configure Security Settings

2.1 Disable SELinux on All Machines

```
[alumno@nodo52 ambari-repo]$ sudo setenforce 0
[alumno@nodo52 ambari-repo]$ sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config
sed: no se puede abrir el fichero temporal /etc/selinux/sedBxQe0S: Permission denied
[alumno@nodo52 ambari-repo]$ sudo sed -i 's/SELINUX=enforcing/SELINUX=disabled/g' /etc/selinux/config
```

2.2 Configure Firewall on All Machines

```
[alumno@nodo52 ambari-repo]$ systemctl disable firewalld
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-unit-files ====
Authentication is required to manage system service or unit files.
Authenticating as: alumno
Password:
==== AUTHENTICATION COMPLETE ====
Removed /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
[alumno@nodo52 ambari-repo]$ systemctl stop firewalld
==== AUTHENTICATING FOR org.freedesktop.systemd1.manage-units ====
Se requiere autenticación para detener 'firewalld.service'.
Authenticating as: alumno
Password:
==== AUTHENTICATION COMPLETE ====
```

3. Configure SSH Access

3.1 Generate SSH Key on the Server Machine

Lo hace la máquina servidor

3.2 Configure SSH for Password Authentication

```
[alumno@nodo52 ambari-repo]$ sudo vi /etc/ssh/sshd_config_
```

```
# Authentication:  
  
#LoginGraceTime 2m  
PermitRootLogin yes  
#StrictModes yes  
#MaxAuthTries 6  
#MaxSessions 10  
  
#PubkeyAuthentication yes  
  
# The default is to check both .ssh/authorized_keys and .ssh/authorized_keys2  
# but this is overridden so installations will only check .ssh/authorized_keys  
AuthorizedKeysFile      .ssh/authorized_keys  
  
#AuthorizedPrincipalsFile none  
  
#AuthorizedKeysCommand none  
#AuthorizedKeysCommandUser nobody  
  
# For this to work you will also need host keys in /etc/ssh/ssh_known_hosts  
#HostbasedAuthentication no  
# Change to yes if you don't trust ~/.ssh/known_hosts for  
# HostbasedAuthentication  
#IgnoreUserKnownHosts no  
# Don't read the user's ~/.rhosts and ~/.shosts files  
#IgnoreRhosts yes  
  
# To disable tunneled clear text passwords, change to no here!  
#PasswordAuthentication yes  
#PermitEmptyPasswords no  
PasswordAuthentication yes
```

```
[alumno@nodo52 ambari-repo]$ sudo systemctl restart sshd
```

3.3 Distribute SSH Keys from Server to Agents

Lo hace la máquina servidor

4. Install Required Packages on All Machines

4.1 Update the System and Install Basic Utilities

Utilizamos el comando “sudo dnf update -y”

```
rpm-plugin-systemd-inhibit-4.14.3-32.el8_10.x86_64
samba-client-libs-4.19.4-10.el8_10.x86_64
samba-common-4.19.4-10.el8_10.noarch
selinux-policy-targeted-3.14.3-139.el8_10.1.noarch
sqlite-3.26.0-28.el8_10.x86_64
sssd-2.9.4-5.el8_10.2.x86_64
sssd-client-2.9.4-5.el8_10.2.x86_64
sssd-common-pac-2.9.4-5.el8_10.2.x86_64
sssd-kcm-2.9.4-5.el8_10.2.x86_64
sssd-krb5-common-2.9.4-5.el8_10.2.x86_64
sssd-nfs-idmap-2.9.4-5.el8_10.2.x86_64
strace-5.18-2.1.el8_10.x86_64
systemd-239-82.el8_10.5.x86_64
systemd-pam-239-82.el8_10.5.x86_64
tar-2:1.30-11.el8_10.x86_64
tzdata-2025b-1.el8.noarch
vdo-6.2.11.5-14.el8_10.x86_64
which-2.21-21.el8_10.x86_64
Installado:
PackageKit-glib-1.1.12-7.el8.x86_64
bind-libs-32:9.11.36-16.el8_10.4.x86_64
bind-license-32:9.11.36-16.el8_10.4.noarch
cairo-1.15.12-6.el8.x86_64
checkpolicy-2.9-1.el8.x86_64
fontconfig-2.13.1-4.el8.x86_64
gdk-pixbuf2-2.36.12-7.el8_10.x86_64
geolite2-country-20180605-1.el8.noarch
kernel-4.18.0-553.88.1.el8_10.x86_64
kernel-modules-4.18.0-553.88.1.el8_10.x86_64
libX11-common-1.6.8-9.el8_10.noarch
libXext-1.3.4-1.el8.x86_64
libappstream-glib-0.7.14-3.el8.x86_64
libmaxminddb-1.2.0-10.el8_9.1.x86_64
libstemmer-0-10.595svn.el8.x86_64
libxkbcommon-0.9.1-1.el8.x86_64
policycoreutils-python-utils-2.9-26.el8_10.noarch
python3-audit-3.1.2-1.el8_10.1.x86_64
python3-cairo-1.16.3-6.el8.x86_64
python3-gobject-3.28.3-2.el8.x86_64
python3-lxml-2.9.7-21.el8_10.3.x86_64
python3-ply-3.9-9.el8.noarch
python3-psutil-5.4.3-11.el8.x86_64
python3-pydbus-0.6.0-5.el8.noarch
python3-tracer-1.1-1.el8.noarch
setroubleshoot-plugins-3.3.14-1.el8.noarch
sscg-3.0.0-7.el8.x86_64
unbound-libs-1.16.2-5.9.el8.x86_64
rsync-3.1.3-23.el8_10.x86_64
samba-common-4.19.4-10.el8_10.noarch
selinux-policy-3.14.3-139.el8_10.1.noarch
soc-4.10.0-4.el8_10.noarch
sqlite-libs-3.26.0-28.el8_10.x86_64
sssd-ad-2.9.4-5.el8_10.2.x86_64
sssd-common-2.9.4-5.el8_10.2.x86_64
sssd-krb5-2.9.4-5.el8_10.2.x86_64
sssd-ldap-2.9.4-5.el8_10.2.x86_64
sssd-proxy-2.9.4-5.el8_10.2.x86_64
sudo-1.9.5p2-1.el8_10.2.x86_64
systemd-libs-239-82.el8_10.5.x86_64
systemd-udev-239-82.el8_10.5.x86_64
tuned-2.22.1-6.el8_10.noarch
unzip-6.0-48.el8_10.x86_64
vim-minimal-2:8.0.1763-21.el8_10.x86_64
yum-4.7.0-21.el8_10.noarch
PackageKit-glib-1.1.12-7.el8.x86_64
bind-libs-lite-32:9.11.36-16.el8_10.4.x86_64
bind-utils-32:9.11.36-16.el8_10.4.x86_64
cairo-gobject-1.15.12-6.el8.x86_64
cockpit-packagekit-310.3-3.el8_10.noarch
fstrm-0.6.1-3.el8.x86_64
geolite2-city-20180605-1.el8.noarch
grub2-tools-efi-i-1:2.02-169.el8_10.rocky.0.1.x86_64
kernel-core-4.18.0-553.88.1.el8_10.x86_64
libX11-1.6.8-9.el8_10.x86_64
libXau-1.0.9-3.el8.x86_64
libXrender-0.9.10-7.el8.x86_64
libevent-2.1.8-5.el8.x86_64
libsoup-2.62.3-9.el8_10.x86_64
libxcb-1.13.1-1.el8.x86_64
pixman-0.38.4-4.el8.x86_64
protobuf-c-1.3.0-8.el8.x86_64
python3-bind-32:9.11.36-16.el8_10.4.noarch
python3-distro-1.4.0-2.module+el8.10.0+1910+234ad790.noarch
python3-libsemanage-2.9-12.el8_10.x86_64
python3-pexpect-4.3.1-3.el8.noarch
python3-policycoreutils-2.9-26.el8_10.noarch
python3-ptyprocess-0.5.2-4.el8.noarch
python3-setuptools-4.3.0-5.el8.x86_64
python3-unbound-1.16.2-5.9.el8.x86_64
setroubleshoot-server-3.3.26-6.el8.x86_64
tracer-common-1.1-1.el8.noarch
xkeyboard-config-2.28-1.el8.noarch
iListo!
```

```
[alumno@nodo52 ambari-repo]$ sudo dnf install -y sudo openssh-server openssh-clients which iproute net-tools less vim-enhanced
[sudo] password for alumno:
Última comprobación de caducidad de metadatos hecha hace 0:32:25, el mar 28 oct 2025 13:14:11 CET.
El paquete sudo-1.9.5p2-1.el8_10.2.x86_64 ya está instalado.
El paquete openssh-server-0.0p1-26.el8_10.x86_64 ya está instalado.
El paquete openssh-clients-0.0p1-26.el8_10.x86_64 ya está instalado.
El paquete which-2.21-21.el8_10.x86_64 ya está instalado.
El paquete iproute-6.2.0-6.el8_10.x86_64 ya está instalado.
El paquete net-tools-2.0-0.52.20160912git.el8.x86_64 ya está instalado.
El paquete less-530-3.el8_10.x86_64 ya está instalado.
El paquete vim-enhanced-2:8.0.1763-21.el8_10.x86_64 ya está instalado.
Dependencias resueltas.
Nada por hacer.
iListo!
```