Documentación del Obligatorio

Taller de servidores Linux

Santiago Techera N.º 328944

Carlos Pérez Nº 179303

Docente: Enrique Verdes

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Configuración de las máquinas virtuales en su instalación

Configuración máquina virtual Ubuntu01:

```
Storage configuration

FILE SYSTEM SUMMARY

MOUNT POINT SIZE TYPE DEVICE TYPE

[/ 10,000G new ext4 new partition of local disk >]

[/boot 2.000G new ext4 new partition of local disk >]

[/swap 3.997G new ext4 new partition of local disk >]

[/var 5.000G new ext4 new partition of local disk >]

[/var 5.000G new ext4 new partition of local disk >]

AVAILABLE DEVICES

No available devices

[Create software RAID (md) >]

[Create volume group (LVM) >]

USED DEVICES

DEVICE

[VBOX_HARDDISK_VBe4b51a22-d9feb1d2 local disk 21.000G >]

partition 1 new, BIOS grub spacer

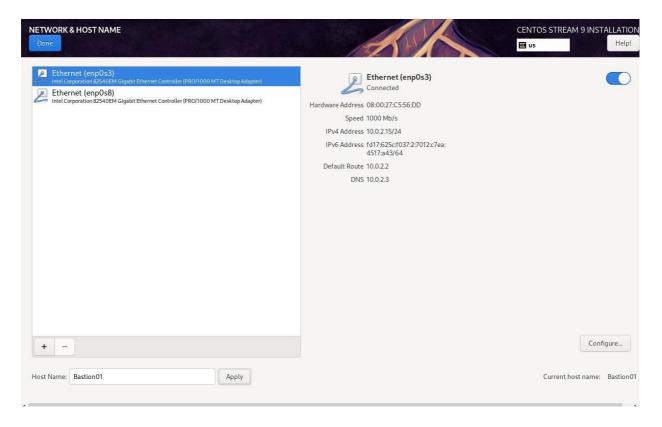
partition 2 new, to be formatted as ext4, mounted at /boot 2.000G >

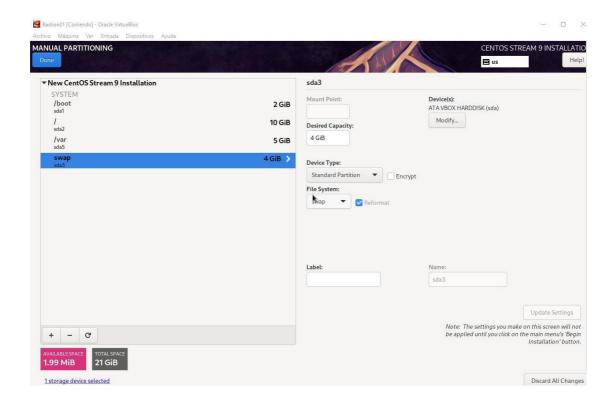
partition 3 new, to be formatted as ext4, mounted at / 10.000G >

partition 4 new, to be formatted as ext4, mounted at /var 5.000G >

partition 5 new, to be formatted as ext4, mounted at /swap 3.997G >
```

Configuración de Bastion01- CentOS:



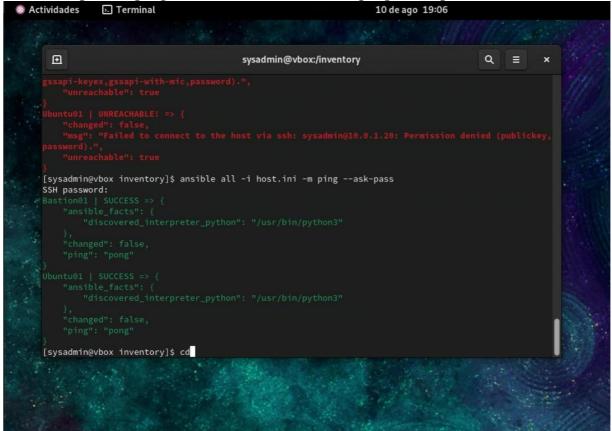


Prueba de comandos con conexión exitosa

Comando: ansible-inventory -i host.ini -list

```
[sysadmin@vbox inventory]$ ansible-inventory -i host.ini --list
{
    "meta": {
        "Bastion01": {
            "ansible_host": "10.0.1.15"
        },
        "Ubuntu01": {
            "ansible_host": "10.0.1.20"
        }
    }
},
"all": {
        "children": [
        "ungrouped",
        "linux",
        "fileserver"
    }
},"centos": {
        "hosts": [
        "Bastion01"
    ]
},"fileserver": {
        "hosts": [
        "centos",
        "ubuntu"
    ]
},
"ubuntu": {
        "hosts": [
        "costos",
        "ubuntu"
    ]
},
"ubuntu": {
        "hosts": [
        "costos",
        "ubuntu"
    ]
},
sysadmin@vbox inventory]$
```

Comando prueba ping: ansible all -i host.ini -m ping --ask-pass



Ejecución de los comandos ad-hoc:

Comando para listar todos los usuarios en servidor Ubuntu01: ansible ubuntu -i host.ini -m command -a "cat /etc/passwd" –ask-pass

```
[sysadmin@vbox inventory]$ ansible ubuntu -i host.ini -m command -a "cat /etc/passwd" --ask-pass
SSH password:
Ubuntual | CHANGED | rc=0 >>
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
man:x:6:12:man:/var/cache/pan:/usr/sbin/nologin
man:x:6:12:man:/var/cache/pan:/usr/sbin/nologin
man:x:6:12:man:/var/cache/pan:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
mucp:x:10:10:uucp:/var/spool/lucp:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/wsr/sbin/nologin
mackup:x:34:34:backup:/var/backups:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
dhcpcd:x:100:65534:55034:DFC Client Daemon,,;/usr/lib/dhcpcd:/bin/false
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
systemd-resolve:x:992:992:systemd Resolver://usr/sbin/nologin
pollinate:x:102:11://ar/cache/pollinate:/bin/false
polkitd:x:104:105::/run/uudd:/usr/sbin/nologin
tsystemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
systemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
systemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
systemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
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systemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
systemd-resolve:x:993:993:systemd Resolver://usr/sbin/nologin
systemd-resolve:x:993:993:systemd:ribn/sbash
systemd-resolve:x:993:993:systemd:ribn/sbash
systemd-resolve:x:993:993:systemd:ribn/sbash
systemd-resolve:x:993:993:systemd:ribn/sbash
systemd-resolv
```

Comando para mostrar el uso de memoria en todos los servidores:

ansible all -i host-ini -m command -a "free -h" -ask-pass

Comando para mostrar que el servicio chrony esté instalado y funcionando en servidor CentOS:

Comando: ansible all -i 10.0.1.30, -u root -m dnf -a "name=chrony state=present" -K -k

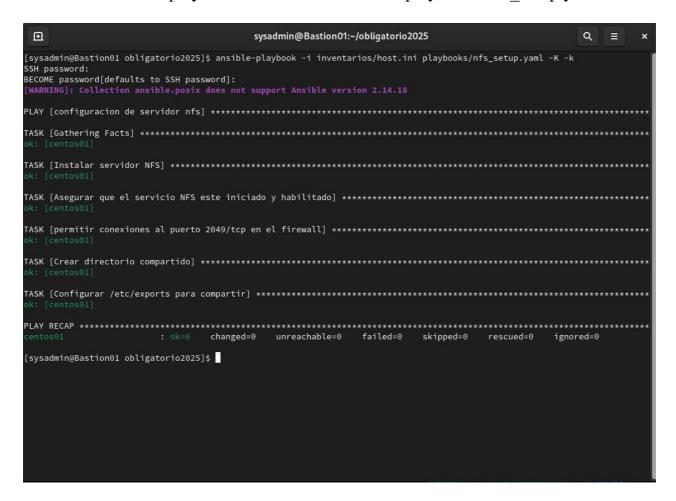
```
sysadmin@Bastion01:~/obligatorio2025

[sysadmin@Bastion01 obligatorio2025]$ ansible all -i 10.0.1.30, -u root -m dnf -a "name=chrony state=present" -K
-k
SSH password:
BECOME password[defaults to SSH password]:
10.0.1.30 | SUCCESS => {
    "ansible_facts": {
        "discovered_interpreter_python": "/usr/bin/python3"
     },
     "changed": false,
     "msg": "Nothing to do",
     "rc": 0,
     "results": []
}
[sysadmin@Bastion01 obligatorio2025]$ S
```

Ejecuciones de los Playbooks solicitados

Ejecución del playbook nfs_setup.yml para CentOs

Comando: Ansible-playbook -i inventarios/host.ini playbooks/nfs setup.yaml -K -k



Ejecución del playbook hardening.yaml para Ubuntu

Comando: ansible-playbook -i inventarios/host.ini playbooks/hardening.yaml -K -[sysadmin@Bastion01 obligatorio2025]\$ ansible-playbook -i inventarios/host.ini playbooks/hardening.yaml SSH password: BECOME password[defaults to SSH password]: PLAY [hardening para ubuntu] ************************* TASK [Gathering Facts] ************************** TASK [sistema actualizado] ********* TASK [permitir conecciones SSH] ********** TASK [Instalar fail2ban] **************** PLAY RECAP ********** unreachable=0 failed=0 skipped=0 ignored= [sysadmin@Bastion01 obligatorio2025]\$ [sysadmin@Bastion01 obligatorio2025]\$ ansible-playbook -i inventarios/host.ini playbooks/hardening.yaml -K -k SSH password: BECOME password[defaults to SSH password]: PLAY [hardening para ubuntu] ********************* TASK [instalar ufw] ************ TASK [no permitir login ssh con root] ************** PLAY RECAP ******************** unreachable=0 failed=0 changed=0 skipped=0 ignored=

[sysadmin@Bastion01 obligatorio2025]\$