

AA3 - Procedimento da Tarefa Prática 1

Nome: Lucas de Macedo Polezel

Prontuário: SP305411X

a) Baixar a imagem ISO da distribuição Linux VMware Photon OS

A imagem escolhida foi a photon-minimal-4.0-c001795b8

b) Criar duas VMs Linux Photon OS

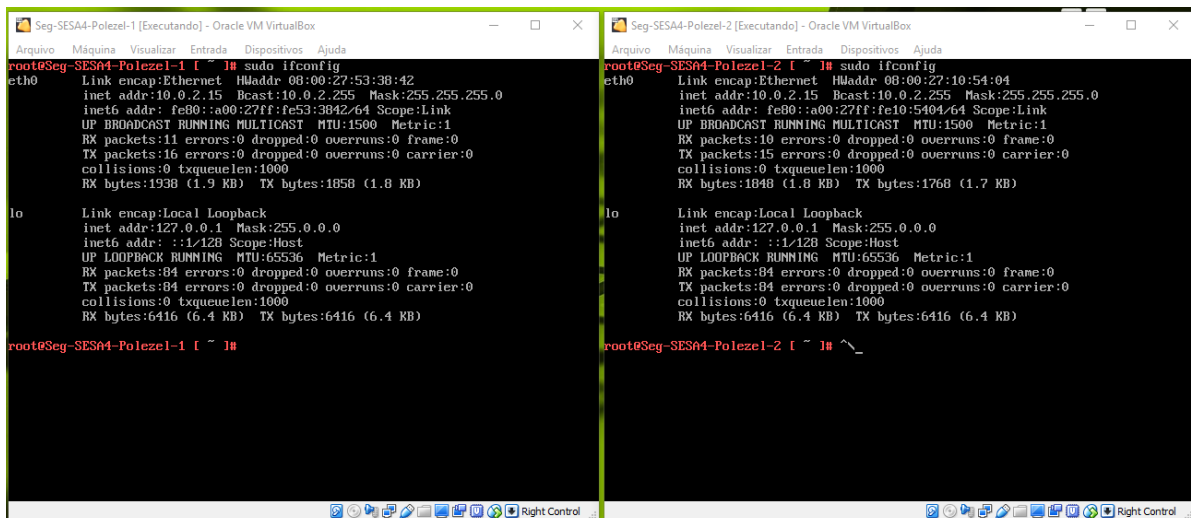
Nome das VM's:

Seg-SESA4-Polezel-1 | Seg-SESA4-Polezel-2

Senha: IFSP2022@

c) Deixar o IP dos dois servidores Linux com IP automático

d) Após a instalação anotar os endereços IP recebidos



```
root@Seg-SESA4-Polezel-1 [ ~ ]# sudo ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:53:38:42
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe53:3842/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:11 errors:0 dropped:0 overruns:0 frame:0
          TX packets:16 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1938 (1.9 KB)  TX bytes:1858 (1.8 KB)

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:84 errors:0 dropped:0 overruns:0 frame:0
          TX packets:84 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:6416 (6.4 KB)  TX bytes:6416 (6.4 KB)

root@Seg-SESA4-Polezel-1 [ ~ ]#

root@Seg-SESA4-Polezel-2 [ ~ ]# sudo ifconfig
eth0      Link encap:Ethernet  HWaddr 08:00:27:10:54:04
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe10:5404/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:10 errors:0 dropped:0 overruns:0 frame:0
          TX packets:15 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:1848 (1.8 KB)  TX bytes:1768 (1.7 KB)

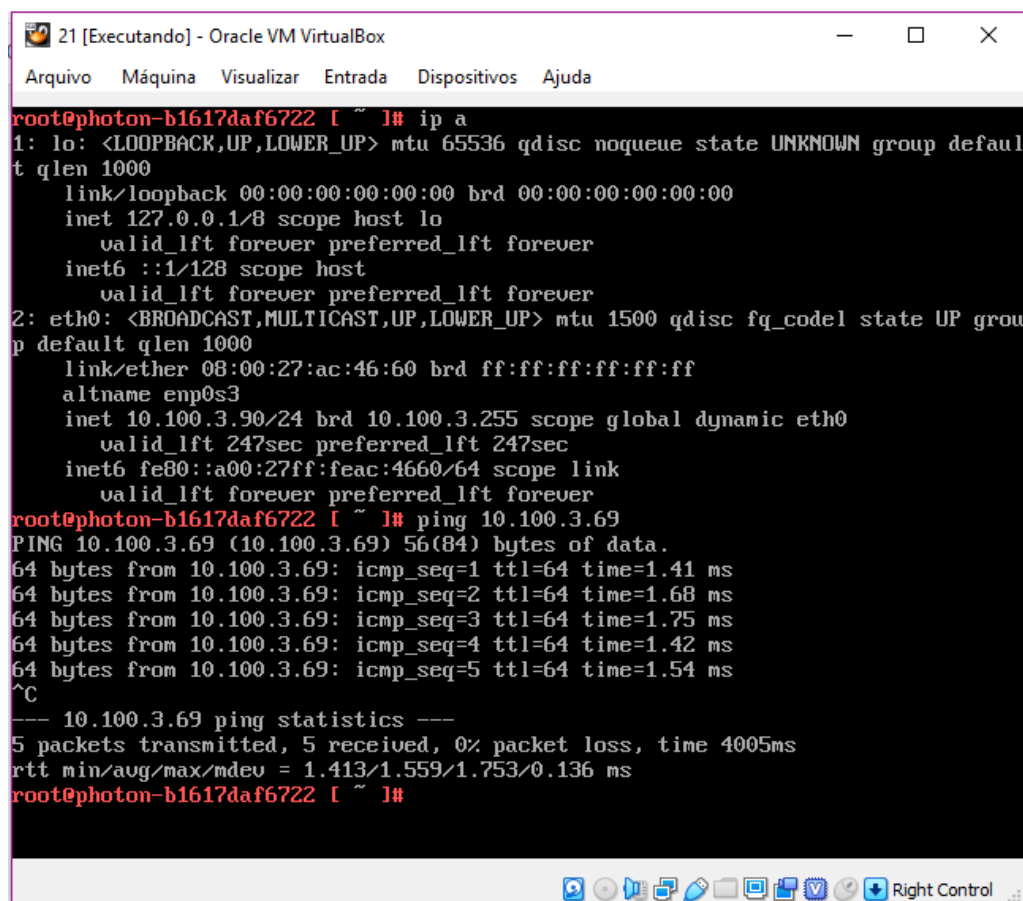
lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:65536  Metric:1
          RX packets:84 errors:0 dropped:0 overruns:0 frame:0
          TX packets:84 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:6416 (6.4 KB)  TX bytes:6416 (6.4 KB)

root@Seg-SESA4-Polezel-2 [ ~ ]#
```

e) Configurar no Linux 01 um endereço IP estático e crie um padrão de IPs para ter um endereço IP privado e até 254 hosts nessa rede.

1. Acesse o diretório `/etc/systemd/network` com o comando:
`cd /etc/systemd/network`
2. Dentro do diretório renomeie o arquivo `99-dhcp-en.network` para `BY-99-dhcp-en.network` com o comando:
`mv "99-dhcp-en.network" "BY-99-dhcp-en.network"`

3. Crie o arquivo **99-static-en.network** com as informações abaixo:
[Match] Name=eth0
[Network] Address=198.51.0.2/24
Gateway=198.51.0.1
Netmask=255.255.255.0
4. Altere as permissões do arquivo com o comando:
chmod 644 "10-static-en.network"
5. Reinicie o serviço de rede para aplicar as alterações com o comando:
systemctl restart systemd-networkd
6. Configure o firewall para permitir a comunicação entre dois hosts com o comando:
iptables -A INPUT -p icmp -j ACCEPT
iptables -A OUTPUT -p icmp -j ACCEPT
7. Repita os passos na outra máquina virtual com o endereço de IP 192.51.0.2 dentro da mesma rede com o mesmo Gateway.
8. Teste a conexão entre os dois hosts com o comando ping:
ping 192.51.0.1



```
21 [Executando] - Oracle VM VirtualBox
Arquivo  Máquina  Visualizar  Entrada  Dispositivos  Ajuda

root@photon-b1617daf6722 [ ~ ]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default
    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: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default
    link/ether 08:00:27:ac:46:60 brd ff:ff:ff:ff:ff:ff
    altname enp0s3
    inet 10.100.3.90/24 brd 10.100.3.255 scope global dynamic eth0
        valid_lft 247sec preferred_lft 247sec
    inet6 fe80::a00:27ff:feac:4660/64 scope link
        valid_lft forever preferred_lft forever
root@photon-b1617daf6722 [ ~ ]# ping 10.100.3.69
PING 10.100.3.69 (10.100.3.69) 56(84) bytes of data.
64 bytes from 10.100.3.69: icmp_seq=1 ttl=64 time=1.41 ms
64 bytes from 10.100.3.69: icmp_seq=2 ttl=64 time=1.68 ms
64 bytes from 10.100.3.69: icmp_seq=3 ttl=64 time=1.75 ms
64 bytes from 10.100.3.69: icmp_seq=4 ttl=64 time=1.42 ms
64 bytes from 10.100.3.69: icmp_seq=5 ttl=64 time=1.54 ms
^C
--- 10.100.3.69 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 1.413/1.559/1.753/0.136 ms
root@photon-b1617daf6722 [ ~ ]#
```