

## AA3 - Tarefa Prática 1

### Endereço IP estático e Servidor DHCP

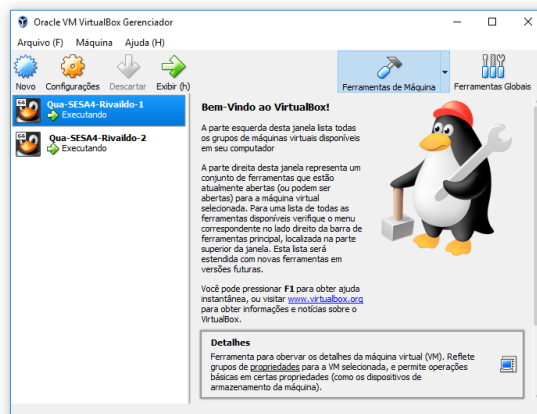
### Explicação em Alto Nível

1) Baixar a imagem ISO da distribuição Linux VMware Photon OS  
<https://github.com/vmware/photon/wiki/Downloading-Photon-OS>

2) Criar duas VMs Linux Photon OS

O nome das VMs terá essa convenção:

Alunos de quarta => Qua-SESA4-<sobrenome aluno>-1 (1o máquina virtual) |  
Qua-SESA4-<sobrenome aluno>-2. A senha do usuário root deve ser: IFSP2022@



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

```
root@photon [ ~ ]# ifconfig
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:1730 errors:0 dropped:0 overruns:0 frame:0
          TX packets:1730 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:126618 (126.6 KB)  TX bytes:126618 (126.6 KB)

eth0      Link encap:Ethernet HWaddr 08:00:27:c2:32:d7
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe4d:be6d/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:479 errors:0 dropped:260 overruns:0 frame:0
          TX packets:80 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:73516 (73.5 KB)  TX bytes:15674 (15.6 KB)

root@photon [ ~ ]#

root@photon2 [ ~ ]# ifconfig
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:158 errors:0 dropped:0 overruns:0 frame:0
          TX packets:158 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:11906 (11.9 KB)  TX bytes:11906 (11.9 KB)

eth0      Link encap:Ethernet HWaddr 08:00:27:4d:be:6d
          inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0
          inet6 addr: fe80::a00:27ff:fe4d:be6d/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
          RX packets:700 errors:0 dropped:325 overruns:0 frame:0
          TX packets:85 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:99512 (99.5 KB)  TX bytes:14552 (14.5 KB)

root@photon2 [ ~ ]#
```

#### 4) Após a instalação anotar os endereços IP recebidos.

**R:** Máquina 1:

(Rede interna) – Não fornece IP

10.0.2.15(NAT) – IP fornecido pelo Virtual Box

10.100.3.87(Bridge) – IP fornecido pelo DHCP

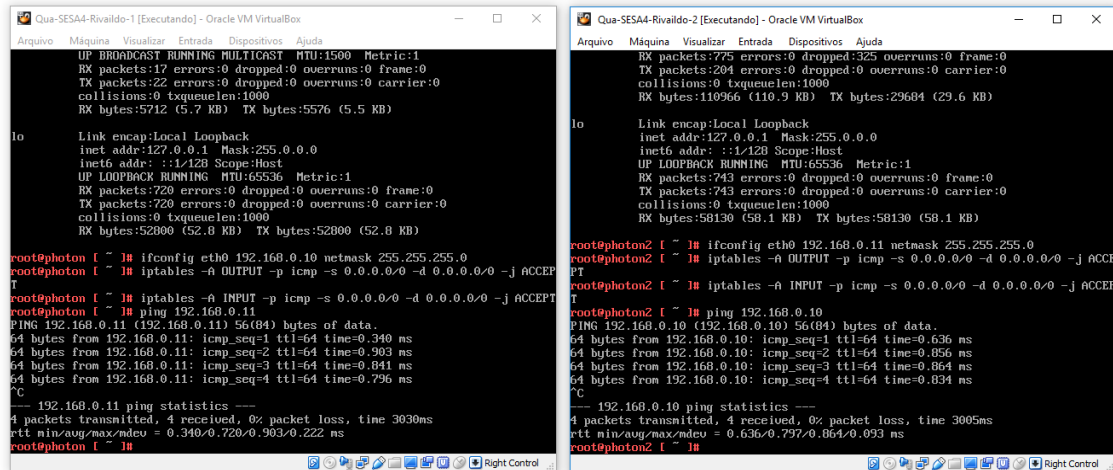
Máquina 2:

(Rede interna) – Não fornece IP

10.0.2.15(NAT) – IP fornecido pelo Virtual Box

10.100.3.32(Bridge) – IP fornecido pelo DHCP

#### 5) 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.



```
Qua-SES44-Rivaldo-1 [Executando] - Oracle VM VirtualBox
Arquivo  Máquina  Visualizar  Entrada  Dispositivos  Ajuda

UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
RX packets:17 errors:0 dropped:0 overruns:0 frame:0
TX packets:22 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:5712 (5.7 KB)  TX bytes:5576 (5.5 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:720 errors:0 dropped:0 overruns:0 frame:0
  TX packets:720 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1000
  RX bytes:52000 (52.0 KB)  TX bytes:52000 (52.0 KB)

root@photon1 [ ~ ]# ifconfig eth0 192.168.0.10 netmask 255.255.255.0
root@photon1 [ ~ ]# iptables -A OUTPUT -p icmp -s 0.0.0.0/0 -d 0.0.0.0/0 -j ACCEPT
root@photon1 [ ~ ]# iptables -A INPUT -p icmp -s 0.0.0.0/0 -d 0.0.0.0/0 -j ACCEPT
root@photon1 [ ~ ]# ping 192.168.0.11
PING 192.168.0.11 (192.168.0.11) 56(84) bytes of data.
64 bytes from 192.168.0.11: icmp_seq=1 ttl=64 time=0.340 ms
64 bytes from 192.168.0.11: icmp_seq=2 ttl=64 time=0.903 ms
64 bytes from 192.168.0.11: icmp_seq=3 ttl=64 time=0.841 ms
64 bytes from 192.168.0.11: icmp_seq=4 ttl=64 time=0.796 ms
--- 192.168.0.11 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3030ms
rtt min/avg/max/mdev = 0.340/0.720/0.903/0.222 ms
root@photon1 [ ~ ]#

Qua-SES44-Rivaldo-2 [Executando] - Oracle VM VirtualBox
Arquivo  Máquina  Visualizar  Entrada  Dispositivos  Ajuda

RX packets:775 errors:0 dropped:325 overruns:0 frame:0
TX packets:204 errors:0 dropped:0 overruns:0 carrier:0
collisions:0 txqueuelen:1000
RX bytes:110966 (110.9 KB)  TX bytes:29684 (29.6 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:743 errors:0 dropped:0 overruns:0 frame:0
  TX packets:743 errors:0 dropped:0 overruns:0 carrier:0
  collisions:0 txqueuelen:1000
  RX bytes:58130 (58.1 KB)  TX bytes:58130 (58.1 KB)

root@photon2 [ ~ ]# ifconfig eth0 192.168.0.11 netmask 255.255.255.0
root@photon2 [ ~ ]# iptables -A OUTPUT -p icmp -s 0.0.0.0/0 -d 0.0.0.0/0 -j ACCEPT
root@photon2 [ ~ ]# iptables -A INPUT -p icmp -s 0.0.0.0/0 -d 0.0.0.0/0 -j ACCEPT
root@photon2 [ ~ ]# ping 192.168.0.10
PING 192.168.0.10 (192.168.0.10) 56(84) bytes of data.
64 bytes from 192.168.0.10: icmp_seq=1 ttl=64 time=0.636 ms
64 bytes from 192.168.0.10: icmp_seq=2 ttl=64 time=0.856 ms
64 bytes from 192.168.0.10: icmp_seq=3 ttl=64 time=0.864 ms
64 bytes from 192.168.0.10: icmp_seq=4 ttl=64 time=0.834 ms
--- 192.168.0.10 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3005ms
rtt min/avg/max/mdev = 0.636/0.797/0.864/0.093 ms
root@photon2 [ ~ ]#
```