

Describe EDELSON HENRIQUE CONSTANTINO here.

- Podia ter incluído os pings de teste 😊

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Parte 1

- Instalar o pacote “uml-utilities” no host:

```
# apt-get install uml-utilities
```

Obs: Este procedimento foi necessário, pois o host não possuía a ferramenta "tunctl"

Parte 2

- Criando as interfaces tap no host

```
# tunctl -t tap0
```

```
# tunctl -t tap1
```

```
# tunctl -t tap2
```

```
# tunctl -t tap3
```

- Iniciando as interfaces tap no host

```
# ifconfig tap0 up
```

```
# ifconfig tap1 up
```

```
# ifconfig tap2 up
```

```
# ifconfig tap3 up
```

- Criando as bridge no host e apendando as interfaces

- Bridge Rede Privada

```
# brctl addbr br0
```

- Bridge Rede Pública

```
# brctl addbr br1
```

- Apendando as interfaces na Rede Privada (br0)

```
# brctl addif br0 tap0 tap1
```

- Apendando as interfaces na Rede Publica (br1)

```
# brctl addif br1 tap2 tap3 eth0
```

- Iniciando as bridges

```
# ifconfig br0 up
```

```
# ifconfig br1 up
```

- Configurando o acesso ao segmento de rede físico com bridges

```
# ifconfig br0 0.0.0.0
```

```
# ifconfig br1 0.0.0.0
```

```
# ifconfig eth0 0.0.0.0
```

- Ativando a bridge com IP da rede Pública (mesmo do host)

```
# ifconfig br1 10.1.1.20
```

- Ativando a rota de saída (gateway) no host

```
# route add default gw 10.1.1.1
```

- Desativando o NAT e o ip_forward

```
# iptables -t nat -F
```

```
# echo 0 > /proc/sys/net/ipv4/ip_forward
```

Parte 3

- Iniciando duas máquinas virtuais adicionando uma interface de rede em cada máquina, totalizando duas em cada guest.

Obs: Antes de iniciar as máquinas (guest), editar o script “/etc/kvm/kvm-ifup” no host e comentar “todas” as linhas.

- MUSSUM

```
# kvm -m 1024 \
```

```
-drive file=/dev/volumes/mussum,media=disk,index=0 \
```

```
-chardev socket,path=/tmp
```

```
/portaserial_mussum,server,nowait,id=serial0 \
```

```
-device isa-serial,chardev=serial0 \
```

```
-chardev
```

```
socket,id=tcpmon0,port=7000,host=localhost,server,nowait \
```

```
-mon chardev=tcpmon0 \
```

```
-vnc :0,password \
```

```
-netdev type=tap,ifname=tap0,id=net0 \  
-device rtl8139,netdev=net0,mac=00:AA:11:BB:22:CC \  
-netdev type=tap,ifname=tap3,id=net3 \  
-device rtl8139,netdev=net3,mac=00:AA:11:BB:33:CC \  
-daemonize
```

- ZACARIAS

```
# kvm -m 1024 \  
-drive file=/dev/volumes/zacarias,media=disk,index=0 \  
-chardev socket,path=/tmp  
/portaserial_zacarias,server,nowait,id=serial0 \  
-device isa-serial,chardev=serial0 \  
-chardev  
socket,id=tcpmon0,port=8000,host=localhost,server,nowait \  
-mon chardev=tcpmon0 \  
-vnc :1,password \  
-netdev type=tap,ifname=tap1,id=net1 \  
-device rtl8139,netdev=net1,mac=00:AA:11:BB:44:CC \  
-netdev type=tap,ifname=tap2,id=net2 \  
-device rtl8139,netdev=net2,mac=00:AA:11:BB:55:CC \  
-daemonize
```

Parte 4

- Acessando as máquinas virtuais (guest)

- Máquina MUSSUM

```
# socat UNIX:/tmp/portaserial_mussum
STDIO,raw,echo=0,escape=0x1d
```

- Identificando as interfaces do "guest" para com o "host"

```
# ifconfig -a

eth0: 00:aa:11:bb:22:cc
host: tap0

eth1: 00:aa:11:bb:33:cc
host: tap3
```

- Configurando as interfaces de rede no "guest"

- Rede publica - tap0 - eth0

```
# ifconfig eth0 192.168.0.120 netmask 255.255.255.0 up
```

- Rede privada - tap3 - eth1

```
# ifconfig eth1 10.1.1.120 netmask 255.255.255.0 up
```

- Configurando a saída para a INTERNET

```
# route add default gw 10.1.1.1
```

- Configurando a consulta DNS

```
# vim /etc/resolv.conf

search redes.lab.ic.unicamp.br
nameserver 10.1.1.1
```

- Máquina ZACARIAS

```
# socat UNIX:/tmp/portaserial_zacarias  
STDIO,raw,echo=0,escape=0x1d
```

- Identificando as interfaces do "guest" para com o "host"

```
# ifconfig -a  
  
eth0: 00:aa:11:bb:44:cc  
host: tap1  
  
eth1: 00:aa:11:bb:55:cc  
host: tap2
```

- Configurando as interfaces de rede no "guest"

- Rede publica - tap1 - eth0

```
# ifconfig eth0 192.168.0.220 netmask 255.255.255.0 up
```

- Rede privada - tap2 - eth1

```
# ifconfig eth1 10.1.1.220 netmask 255.255.255.0 up
```

- Configurando a saída para a INTERNET

```
# route add default gw 10.1.1.1
```

- Configurando a consulta DNS

```
# vim /etc/resolv.conf  
  
search redes.lab.ic.unicamp.br  
nameserver 10.1.1.1
```

CursoKVM: EDELSON HENRIQUE CONSTANTINO (last edited 2011-04-14 00:54:49 by MiguelFilho)