

Configuração de redes

Introdução

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Configuração utilizando: Netplan

Exemplo de Arquivo de configuração de redes utilizando netplan, no Ubuntu Server 18.

```
network:
  version: 2
  ethernets:
    enp0s3:
      optional: false
    enp0s9:
      optional: false
    enp0s10:
      optional: false
    enp0s8:
      optional: false
  vlans:
    enp0s3.5:
      id: '5'
      link: 'enp0s3'
      optional: false
    enp0s3.10:
      id: '10'
      link: 'enp0s3'
      optional: false
    enp0s3.20:
      id: '20'
      link: 'enp0s3'
      optional: false
    enp0s3.30:
      id: '30'
      link: 'enp0s3'
      optional: false
  bridges:
    br_giga:
      addresses: []
      dhcp4: true
      interfaces: [enp0s3]
      optional: false
      parameters:
        stp: false
    br_internet:
      addresses: [177.125.143.8/27]
      gateway4: 177.125.143.1
      interfaces: [enp0s3.30]
      optional: false
      nameservers:
        addresses: [8.8.8.8,8.8.4.4]
      parameters:
        stp: false
    br_control:
      addresses: [10.138.0.30/16]
      interfaces: [enp0s3.10]
      optional: false
      routes:
        - to: 10.0.0.0/8
          via: 10.138.0.1
          on-link: true
```

```
        parameters:
            stp: false
br_cmc:
    addresses: [172.16.138.30/24]
    interfaces: [enp0s3.5]
    optional: false
    parameters:
        stp: false
br_exp1:
    interfaces: [enp0s9]
    optional: false
    parameters:
        stp: false
br_exp2:
    interfaces: [enp0s10]
    optional: false
    parameters:
        stp: false
```

Feita as configurações no arquivo yaml, aplique-as com o seguinte comando:

```
netplan apply
```

Configuração utilizando: ifupdown

Ao utilizar o ifupdown é possível reaproveitar as configurações do `/etc/network/interfaces`. Para que o uso do ifupdown seja feito com sucesso, realize os seguintes procedimentos:

Desabilitar o Netplan.

```
cd /etc/netplan/
rm /etc/netplan/*.yaml
```

Instale o pacote do ifupdown.

```
apt-get install ifupdown
```

Edite o arquivo interfaces.

```
vim /etc/network/interfaces
```

Conteúdo de exemplo:



É importante remapear as interfaces de acordo com as novas notações.

```
auto lo
iface lo inet loopback

auto br_giga
iface br_giga inet dhcp
bridge_ports eth0.20
bridge-stp off
bridge-maxwait 2

auto br_internet
iface br_internet inet static
address 177.125.143.8
netmask 255.255.255.224
dns-nameservers 177.125.142.47 8.8.8.8 8.8.4.4
gateway 177.125.143.1
bridge_ports eth0.30
bridge-stp off
bridge-maxwait 2

auto br_control
iface br_control inet static
bridge_ports eth0.10
bridge-stp off
bridge-maxwait 2
address 10.138.0.30
netmask 255.255.0.0
dns-nameservers 10.138.0.80 8.8.8.8 8.8.4.4
post-up ip route add 10.0.0.0/8 via 10.138.0.1

auto br_cmc
iface br_cmc inet static
bridge_ports eth0.5
bridge-stp off
bridge-maxwait 2
address 172.16.138.30
netmask 255.255.255.0

auto br_exp1
iface br_exp1 inet manual
bridge_ports eth2
bridge-stp off
bridge-maxwait 2

auto br_exp2
iface br_exp2 inet manual
bridge_ports eth3
bridge-stp off
bridge-maxwait 2

auto br_exp3
iface br_exp3 inet manual
bridge_ports eth1
bridge-stp off
bridge-maxwait 2
```

Aplicadas as configurações do ifupdown, recomendamos **reiniciar** o servidor.

Habilitar Internet para VMs

Para habilitar a Internet para as VMs, recomendamos os seguintes procedimentos.

Método provisório:

```
echo 1 > /proc/sys/net/ipv4/ip_forward  
iptables -t nat -A POSTROUTING -s 10.XXX.0.0/16 -o br_internet -j MASQUERADE
```



Aonde **XXX** é o ID da ilha.