

Networking: How to configure uplink in private subnet? OR how to resolve external names?

Steps

1. Edit /etc/network/interfaces file

This file describes the network interfaces available on your system and how to activate them.

2. It will look like this

The loopback network interface

auto lo

iface lo inet loopback

The primary internal network interface

auto eth0

iface eth0 inet static

address a.b.c.d (a,b,c,d is the IP address of internal network)

netmask e.f.g.h (e,f,g,h is the netmask address)

ADD FOLLOWING LINES IN THE FILE

auto eth1

iface eth1 inet static

address a.b.c.d (a,b,c,d is the IP address of external network)

netmask e.f.g.h (e,f,g,h is the netmask address)

gateway v.x.y.z (v,x,y,z is the IP address of the gateway)

3. Edit /etc/dnsmasq.conf

Find the line

#resolv-file=

and change it to

resolv-file=/etc/dnsmasq-upstream-resolv.conf

where /etc/dnsmasq-upstream-resolv.conf contains the upstream name server entry.

Open the file /etc/dnsmasq-upstream-resolv.conf and put the following line in it:

nameserver <upstream name server ip>

where <upstream name server ip> is the IP of upstream name server

4. To access external network from virtual machine running in this private subnet, it requires nat rules in IP table.

Those rules can be added using preinstaller script called "install_nat.sh".

On running this script, it will list the available network interfaces and it will ask you to insert external network interface. Once the input is provided, it will add required rules in the IP table.

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