Static IP (Debian 8)

1. Buka file interfaces yang ada di directory /etc/network menggunakan editor nano, perintahnya:

```
root@aril:~# nano /etc/network/interfaces
```

2. Ubah allow-hotplug eth0 menjadi auto eth1, kemudian buatlah eth1 seperti contoh di bawah

```
# This file describes the network interfaces available on your system
# and how to activate them. For more information, see interfaces(5).

source /etc/network/interfaces.d/*

# The loopback network interface
auto lo
iface lo inet loopback

# The primary network interface
auto eth0
iface eth0 inet dhcp

auto eth1
iface eth1 inet static
        address 192.168.1.1
        netmask 255.255.255.0
        network 192.168.1.0
        broadcast 192.168.1.255
```

3. Restart file networking

```
root@aril:~# /etc/init.d/networking restart
```

4. Buka file sysctl.conf

```
root@aril:~# nano /etc/sysctl.conf
```

5. Hapus tanda pagar yang sudah digaris merah

```
#
# /etc/sysctl.conf - Configuration file for setting system variables
# See /etc/sysctl.d/ for additional system variables.
# See sysctl.conf (5) for information.
#

#kernel.domainname = example.com

# Uncomment the following to stop low-level messages on console
#kernel.printk = 3 4 1 3

##############################################################3
# Functions previously found in netbase
#

# Uncomment the next two lines to enable Spoof protection (reverse-path filter)
# Turn on Source Address Verification in all interfaces to
# prevent some spoofing attacks
#net.ipv4.conf.default.rp_filter=1
#net.ipv4.conf.all.rp_filter=1

# Uncomment the next line to enable TCP/IP SYN cookies
# See http://lwn.net/Articles/277146/
# Note: This may impact IPv6 TCP sessions too
#net.ipv4.tcp_syncookies=1

# Uncomment the next line to enable packet forwarding for IPv4
#net.ipv4.ip_forward=1
```

6. Hapus tanda pagar yg ada dibaris kedua

```
# Uncomment the next line to enable packet forwarding for IPv4
net.ipv4.ip_forward=1
```

7. Buka file rc.local

```
root@aril:~# nano /etc/rc.local
```

8. Masukan perintah yg digaris merah

```
#!/bin/sh -e
#
# rc.local
#
# This script is executed at the end of each multiuser runlevel.
# Make sure that the script will "exit 0" on success or any other
# value on error.
#
# In order to enable or disable this script just change the execution
# bits.
#
# By default this script does nothing.
iptables -t nat -A POSTROUTING -o eth0 -j MASQUERADE
exit 0
```

9. Restart Kembali file networking

```
root@aril:~# /etc/init.d/networking restart
```

10. Lakukan tes koneksi ke google

```
root@aril:~# ping google.com
PING google.com (142.251.10.100) 56(84) bytes of data.
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=1 ttl=58 time=15.1 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=2 ttl=58 time=15.0 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=3 ttl=58 time=15.0 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=4 ttl=58 time=15.0 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=5 ttl=58 time=15.1 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=6 ttl=58 time=15.0 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=7 ttl=58 time=15.2 ms
64 bytes from sd-in-f100.1e100.net (142.251.10.100): icmp_seq=8 ttl=58 time=15.0 ms
```

11. Setting IP address static di Client