```
root@debian:~# sudo hostnamectl set-hostname vm-gateway
root@debian:~# hostname
vm-gateway
root@debian:~# _
```

```
subnet 192.168.42.0 netmask 255.255.255.0 {
    range 192.168.42.100 192.168.42.150;
    option routers 192.168.42.254;
    option domain-name-servers 192.168.42.254;
    option domain-name "epi42.lan"
}_
```

```
^G Help         ^O Write Out    ^W Where Is     ^K Cut          ^T Execute      ^C Location     M-
^X Exit         ^R Read File    ^\ Replace      ^U Paste        ^J Justify      ^  Go To Line   M-
```

```
# 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
allow-hotplug enp0s3
iface enp0s3 inet dhcp

iface eth1 inet static
    address 192.168.42.254
    netmask 255.255.255.0
```

```
# Path to dhcpd's config file (default: /etc/dhcp/dhcpd.conf).
#DHCPDv4_CONF=/etc/dhcp/dhcpd.conf
#DHCPDv6_CONF=/etc/dhcp/dhcpd6.conf

# Path to dhcpd's PID file (default: /var/run/dhcpd.pid).
#DHCPDv4_PID=/var/run/dhcpd.pid
#DHCPDv6_PID=/var/run/dhcpd6.pid

# Additional options to start dhcpd with.
#       Don't use options -cf or -pf here; use DHCPD_CONF/ DHCPD_PID instead
#OPTIONS=""

# On what interfaces should the DHCP server (dhcpd) serve DHCP requests?
#       Separate multiple interfaces with spaces, e.g. "eth0 eth1".
INTERFACESv4="enp0s3"
INTERFACESv6=""
```

```
root@vm-gateway:~# systemctl restart isc-dhcp-server
root@vm-gateway:~# systemctl status isc-dhcp-server
● isc-dhcp-server.service - LSB: DHCP server
     Loaded: loaded (/etc/init.d/isc-dhcp-server; generated)
     Active: active (running) since Tue 2024-11-26 15:56:59 GMT; 9s ago
       Docs: man:systemd-sysv-generator(8)
    Process: 1012 ExecStart=/etc/init.d/isc-dhcp-server start (code=exited, status=0/SUCCESS)
      Tasks: 1 (limit: 2306)
     Memory: 4.4M
        CPU: 76ms
     CGroup: /system.slice/isc-dhcp-server.service
             └─1024 /usr/sbin/dhcpd -4 -q -cf /etc/dhcp/dhcpd.conf enp0s3

Nov 26 15:56:57 vm-gateway systemd[1]: Starting isc-dhcp-server.service - LSB: DHCP server...
Nov 26 15:56:57 vm-gateway isc-dhcp-server[1012]: Launching IPv4 server only.
Nov 26 15:56:57 vm-gateway dhcpd[1024]: Wrote 0 leases to leases file.
Nov 26 15:56:57 vm-gateway dhcpd[1024]: Server starting service.
Nov 26 15:56:59 vm-gateway isc-dhcp-server[1012]: Starting ISC DHCPv4 server: dhcpd.
Nov 26 15:56:59 vm-gateway systemd[1]: Started isc-dhcp-server.service - LSB: DHCP server.
root@vm-gateway:~#
```

```
root@vm-gateway:~# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
       valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host noprefixroute
       valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc fq_codel state UP group default qlen 1000
    link/ether 08:00:27:fd:27:9d brd ff:ff:ff:ff:ff:ff
    inet 192.168.42.254/24 brd 192.168.42.255 scope global enp0s3
       valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fefd:279d/64 scope link
       valid_lft forever preferred_lft forever
root@vm-gateway:~#
```

```
# 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

# Uncomment the next line to enable packet forwarding for IPv6
#  Enabling this option disables Stateless Address Autoconfiguration
#  based on Router Advertisements for this host
#net.ipv6.conf.all.forwarding=1


###############################################################
# Additional settings - these settings can improve the network
# security of the host and prevent against some network attacks
# including spoofing attacks and man in the middle attacks through
# redirection. Some network environments, however, require that these
# settings are disabled so review and enable them as needed.
```