

## [SOLVED] Changing routers, what network interface changes are needed?

👤 mikeebee · 🕒 Dec 11, 2022 · 🏷️ iprange network

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mikeebee

Member



Dec 11, 2022

🔗 #1

Hello all,

I recently changed routers, I lost my connection to Promox (via SSH or the Web UI). From my research, I think I understand what changes I need to make but I'd like to double-check with you before I take action as I'm nervous I'll completely lose access (I can still plug my old router in to access it currently).

### Here is my original network setup

(I need to plug all this back in, to access Proxmox)

Code:

```
Subnet mask: 255.255.255.0  
Router: 192.168.1.1
```

### Here is my new network setup

It's an Eero 6+ mesh router. It has IPv6 enabled (The default setup).

Code:

```
Subnet mask: 255.255.252.0  
Router: 192.168.4.1
```



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```
iface enp4s0 inet manual

auto vbr0
iface vbr0 inet static
    address 192.168.1.115
    netmask 255.255.255.0
    gateway 192.168.1.1
    bridge_ports enp4s0
    bridge_stp off
    bridge_fd 0

iface eno2 inet manual
```

## This is the output of nano etc/hosts

### Code:

```
127.0.0.1 localhost.localdomain localhost
192.168.1.115 mb1.local mb1

# The following lines are desirable for IPv6 capable hosts

::1    ip6-localhost ip6-loopback
fe00::0 ip6-localnet
ff00::0 ip6-mcastprefix
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters
ff02::3 ip6-allhosts
```

## Setup info

Not sure you'll need all this but here is the output from `pveversion -v`

### Code:

```
proxmox-ve: 6.2-2 (running kernel: 5.4.65-1-pve)
pve-manager: 6.2-12 (running version: 6.2-12/b287dd27)
pve-kernel-5.4: 6.2-7
pve-kernel-helper: 6.2-7
pve-kernel-5.4.65-1-pve: 5.4.65-1
pve-kernel-5.4.34-1-pve: 5.4.34-2
ceph-fuse: 12.2.11+dfsg1-2.1+b1
corosync: 3.0.4-pve1
criu: 3.11-3
glusterfs-client: 5.5-3
```

```
ifupdown: 0.8.35+pve1
kvm-control-daemon: 1.3-1
libjs-extjs: 6.0.1-10
libknet1: 1.16-pve1
libproxmox-acme-perl: 1.0.5
libpve-access-control: 6.1-3
libpve-apiclient-perl: 3.0-3
libpve-common-perl: 6.2-2
libpve-guest-common-perl: 3.1-3
libpve-http-server-perl: 3.0-6
libpve-storage-perl: 6.2-8
libqb0: 1.0.5-1
libspice-server1: 0.14.2-4~pve6+1
lvm2: 2.03.02-pve4
lxc-pve: 4.0.3-1
lxcfs: 4.0.3-pve3
novnc-pve: 1.1.0-1
proxmox-backup-client: 0.9.0-2
proxmox-mini-journalreader: 1.1-1
proxmox-widget-toolkit: 2.3-1
pve-cluster: 6.2-1
pve-container: 3.2-2
pve-docs: 6.2-6
pve-edk2-firmware: 2.202002-1
pve-firewall: 4.1-3
pve-firmware: 3.1-3
pve-ha-manager: 3.1-1
```

## Next steps

Assuming I don't need to change the IP address I currently use to access Proxmox (192.168.1.115) do I just need to change the netmask and gateway in `etc/network/interfaces` to this?

### Code:

```
netmask 255.255.252.0
gateway 192.168.4.1
```

And then restart the network services by rebooting or running `systemctl restart networking`?

## Question

If I make this change (I'll certainly be waiting for the communities feedback before proceeding) and it doesn't work and I lose access to Proxmox. What are my options?

Many thanks for taking the time to answer such a basic question. I rarely need to

touch the inner workings of my setup so I'm rusty, and had limited knowledge to begin with! Let me know if I can provide any more information.



rason  
Member



Dec 11, 2022

 #2

Based on your information, it looks like you will need to update the network interface settings in the `etc/network/interfaces` file to reflect your new network setup. This will involve updating the address, netmask, and gateway values to match your new router's settings. You will also need to update the `etc/hosts` file to reflect the new IP address for your Proxmox server.

Here is an example of what your updated `etc/network/interfaces` file might look like:

Code:

```
auto lo
iface lo inet loopback
iface enp4s0 inet manual
auto vbr0
iface vbr0 inet static
address 192.168.4.115
netmask 255.255.252.0
gateway 192.168.4.1
bridge_ports enp4s0
bridge_stp off
bridge_fd 0
iface eno2 inet manual
```

And here is an example of what your updated `etc/hosts` file might look like:

Code:

```
127.0.0.1 localhost.localdomain localhost
192.168.4.115 mb1.local mb1
# The following lines are desirable for IPv6 capable hosts

::1      ip6-localhost ip6-loopback
fe00::0  ip6-localnet
ff00::0  ip6-mcastprefix
ff02::1  ip6-allnodes
ff02::2  ip6-allrouters
ff02::3  ip6-allhosts
```

Once you have updated these files, you should be able to access your Proxmox server again through the Web UI or via SSH after restarting the network services. As always, it's a good idea to make a backup of your configuration files before making any changes, just in case something goes wrong.

Speaking of your options in case you lose access to Proxmox: physical access (display + keyboard) to the server is desired in case you are not able to connect to your machine.

Hope this helps!

 mikeebee**Dunuin**

Distinguished Member



Dec 11, 2022

 #3

mikeebee said: ↻

### Next steps

Assuming I don't need to change the IP address I currently use to access Proxmox (192.168.1.115) do I just need to change the netmask and gateway in `etc/network/interfaces` to this?

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Another option would be to log in into your routers webUI and search for an option to change the routers IP, so it is working with a 192.168.1.0/24 subnet like your old router. Saves a lot of troubles, as you don't need to change the IPs of all your LANs hosts and guests.

And if you decide to to change the IP of PVE, keep in mind that you might also need to change the IPs of all VMs/LXCs in case they are not using DHCP. You also need to change the PVE IP, gateway and dns server in `"/etc/network/interfaces"`, `"/etc/hosts"` as well as `"/etc/resolv.conf"`.

mikeebee said: ↻

### Question

If I make this change (I'll certainly be waiting for the communities feedback before proceeding) and it doesn't work and I lose access to Proxmox. What are my options?

You connect a display and keyboard to your server, and change those 3 config file from the local console.

Last edited: Dec 11, 2022

 mikeebee and rason**mikeebee**

Member



Dec 13, 2022

 #4

Thanks so much for the 2 solutions. This is just what I was looking for.

I am going to go with updating the Proxmox internals as opposed to the router, I have very few VM's so I don't mind making a couple of needed changes.

One thing I'm still not clear on is how to access the local console. I have a keyboard and display plugged into the server. On startup, I see the bios startup screen, then a Proxmox startup screen. At this point, I can press the "e" key to stop the boot

sequence to edit the server/boot config but I have no idea how to access the command prompt. Once I proceed and start Proxmox the screen is blank.

I assume this is because I have GPU passthrough enabled? What can I do?

I wanted to post the contents of the server/boot config but I can't find the command needed in the terminal, could you tell me how to do this also, please?

Once I'm comfortable that I can access the local console I will proceed with the network changes.

Thanks again



**Dunuin**

Distinguished Member



Dec 13, 2022

#5

mikeebie said: ↻

One thing I'm still not clear on is how to access the local console. I have a keyboard and display plugged into the server. On startup, I see the bios startup screen, then a Proxmox startup screen. At this point, I can press the "e" key to stop the boot sequence to edit the server/boot config but I have no idea how to access the command prompt. Once I proceed and start Proxmox the screen is blank.

I assume this is because I have GPU passthrough enabled? What can I do?

Jup. You shouldn't passthrough your only GPU or at least not set the VM to autostart. Now the PVE host got no GPU to show you the console.

One option would be to go into the BIOS and disable IOMMU. Without that the passthrough won't work and starting the VM will fail, so the PVE host keeps that GPU, so you can access the console. But that of cause will only work in case you didn't blacklisted the GPU drivers.

In case you blacklisted the drivers, you could boot a Live Linux, mount the filesystems and try to comment out those blacklistings.

Last edited: Dec 13, 2022



**mikeebie**

Member



Dec 18, 2022

#6

Ok all sorted! I removed the GPU blacklist before I made any changes just to make sure I could still access the console.

I updated the network settings as suggested and I'm back up and running.

Many thanks!

Dunuin

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