

# Add DNS Server

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Normally we just add the IP Address, Subnet Mask and Gateway to the `ifcfg-eth0` file, as that is all we need. But if it is required that we need to update the OS, or add a piece of software (http for example) then we may need to add the DNS settings.

While this was written with CentOS 6/7 in mind, it may work for other Linux distributions.

There are two ways this can be done.

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## Method 1

Use `"PEERDNS=no"`. This option will prevent `/etc/resolv.conf` from being modified by a DHCP server. So instead of using DHCP-provided DNS, you can specify any arbitrary DNS servers you want to use in `/etc/resolv.conf`.

The configuration file for your network interface (e.g., `eth0`) looks like the following.

```
sudo vi /etc/sysconfig/network-scripts/ifcfg-eth0
```

```
DEVICE=eth0  
BOOTPROTO=dhcp  
ONBOOT=yes  
PEERDNS=no
```

Then, add static DNS to `/etc/resolv.conf`

```
sudo vi /etc/resolv.conf
```

```
nameserver 8.8.8.8  
nameserver 8.8.4.4
```

---

## Method 2

Alternatively, you can specify DNS servers directly in the interface configuration file, instead of modifying `/etc/resolv.conf` yourself. That is:

```
sudo vi /etc/sysconfig/network-scripts/ifcfg-eth0
```

```
DEVICE=eth0  
BOOTPROTO=dhcp  
ONBOOT=yes  
DNS1=8.8.8.8  
DNS2=8.8.4.4
```

The DNS servers specified with `"DNS1/DNS2"` directives will then automatically be added to `/etc/resolv.conf` when the interface is activated. So there is no need to modify `/etc/resolv.conf` yourself.

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