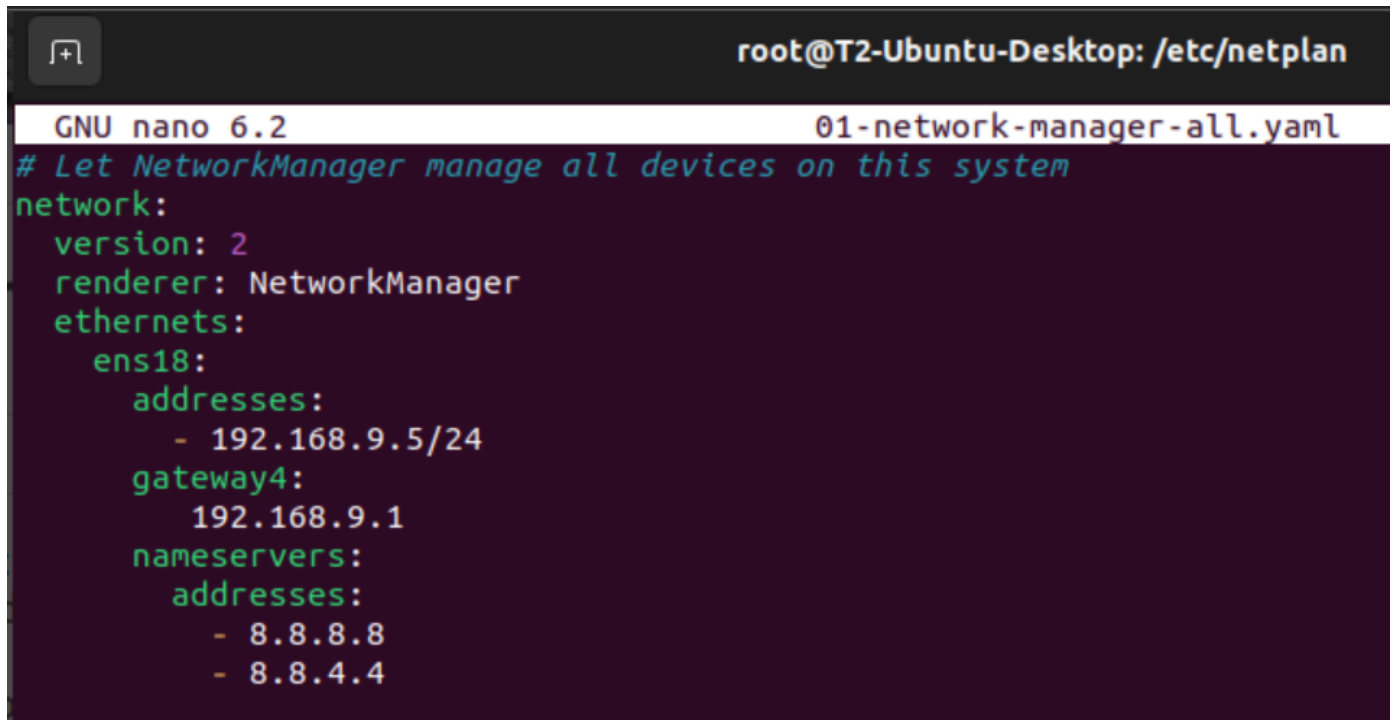# Ubuntu IP Configuration

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- display network configuration: `ip a`

- ens18 is the typical network interface for ubuntu

- edit network configuration file: `sudo nano /etc/netplan/01-network-manager-all.yaml`

- use the below syntax, replacing the ens 18 address and gateway as appropriate:

- note: the indentations are all done with 2 spaces

- note: for ubuntu server, use `renderer: networkd`

- apply changes: `sudo netplan apply`

- make sure the ip address has updated: `ip a`

- test internet connectivity: `curl google.com`

- harden file permissions: `sudo chmod 600 /etc/netplan/*.yaml`

- note: you can usually ignore the "gateway4 depreciated" error. if it's a problem, then replace `gateway4` with `routes` using the following syntax:

```
# Let NetworkManager manage all devices on this system
network:
  version: 2
  renderer: NetworkManager
  ethernets:
    ens18:
      addresses:
        - 192.168.9.5/24
      routes:
        - to: 0.0.0.0/0
          via: 192.168.9.1
      nameservers:
        addresses:
          - 8.8.8.8
          - 8.8.4.4
          - 1.1.1.1
```