



joe@ns1:~\$ echo "On my dns master; configuring it so that it will do recursive lookups for my client"

On my dns master; configuring it so that it will do recursive lookups for my client joe@ns1:~\$ echo "You will also have to do the same on the slave"

You will also have to do the same on the slave

joe@ns1:~\$





joe@ns1:~\$ cd /etc/bind
ioe@ns1:/etc/bind\$ sudo vi

joe@ns1:/etc/bind\$ sudo vi named.conf.options

```
joe@ns1: /etc/bind
options {
        directory "/var/cache/bind";
        //I deleted all lines that started with these double slashes so you can read thing
s better
        //I inserted the following line so that any clients in my subnet
        // will be allowed to ask us for dns recursive lookups
        allow-recursion { 144.38.199.32/28; localhost; };
        dnssec-validation auto;
        listen-on-v6 { any; };
```

joe@ns1:/etc/bind\$ echo "Don't forget to restart bind"
Don't forget to restart bind

joe@ns1:/etc/bind\$

;; WHEN: Sat Aug 12 16:52:46 UTC 2023

;; MSG SIZE rcvd: 163

joe@www:~\$





joe@www:~\$ echo "Appears to work. Now configure all clients to always do lookups through o ur nameservers"

Appears to work. Now configure all clients to always do lookups through our nameservers joe@www:~\$ sudo vi /etc/netplan/00-installer-config.yaml

```
# This is the network config written by 'subiquity'
network:
  ethernets:
    ens4:
      addresses:
      - 144.38.199.38/28
      nameservers:
        addresses:
        #I Will change the addresses to my ns1 and ns2 machines
        # You should change to yours
        - 144.38.199.36
        - 144.38.199.37
        search:
        - cs.utahtech.edu
      routes:
      - to: default
        #change the next line to match your gateway
        via: 144.38.199.33
  version: 2
```

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                                            joe@www: ~
joe@www:~$ sudo netplan apply
joe@www:~$ echo "Do DNS lookup still work?"
Do DNS lookup still work?
joe@www:~$ ping www.woot.com
PING www.woot.com (3.89.18.98) 56(84) bytes of data.
^C
--- www.woot.com ping statistics ---
1 packets transmitted, 0 received, 100% packet loss, time 0ms
joe@www:~$ ping www.google.com
PING www.google.com(slc18s02-in-x04.1e100.net (2607:f8b0:4025:810::2004)) 56 data bytes
64 bytes from slc18s02-in-x04.1e100.net (2607:f8b0:4025:810::2004): icmp seq=1 ttl=52 time
=9.33 \text{ ms}
64 bytes from slc18s02-in-x04.1e100.net (2607:f8b0:4025:810::2004): icmp seq=2 ttl=52 time
=9.23 \text{ ms}
^C
--- www.google.com ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 1002ms
rtt min/avg/max/mdev = 9.234/9.279/9.325/0.045 ms
joe@www:~$ ping -4 bling.com
PING bling.com (185.53.177.31) 56(84) bytes of data.
^C64 bytes from 185.53.177.31: icmp_seq=1 ttl=38 time=148 ms
--- bling.com ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 147.691/147.691/147.691/0.000 ms
joe@www:~$ echo "Seems like dns works"
Seems like dns works
joe@www:~$
```