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To configure NetworkManager to use a specific IP subnet with dnsmasq for shared connections, you'll need to modify the dnsmasq configuration files within the `/etc/NetworkManager/dnsmasq.d/` directory. You'll also need to enable the dnsmasq plugin within NetworkManager. [🔗](#)



Here's a step-by-step guide:

1. Enable dnsmasq Plugin:

- Open the NetworkManager configuration file: `sudo nano /etc/NetworkManager/conf.d/00-use-dnsmasq.conf`
- Add the following line: `[main] dns=dnsmasq`
- Save and close the file.
- Restart NetworkManager: `sudo service network-manager restart` [🔗](#)

2. Configure Subnet IP and Netmask:

- Create a configuration file for dnsmasq: `sudo nano /etc/NetworkManager/dnsmasq.d/your_subnet.conf` (replace `your_subnet.conf` with a descriptive name)
- Add the following configuration lines: [🔗](#)

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```
dhcp-host=52:54:00:a4:65:c8,192.168.1.170 (replace 52:54:00:a4:65:c8
```

- Restart dnsmasq: `sudo systemctl restart dnsmasq.service`

3. Configure NetworkManager's Shared Connection:

- Use the `nmcli` command to configure the shared connection: `nmcli connection modify "connection_name" ipv4.dhcp-range 192.168.1.2,192.168.1.254`
- Make sure to replace `"connection_name"` with the name of your shared connection and `192.168.1.2,192.168.1.254` with the IP range you want to share.
- Restart the shared connection for the changes to take effect.

Explanation:

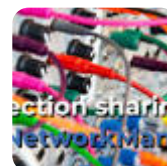
- `interface` : Specifies the network interface that dnsmasq should listen on.
- `dhcp-range` : Defines the range of IP addresses that will be assigned to clients using DHCP.
- `dhcp-option` : Specifies DHCP options to be sent to clients (e.g., the gateway, DNS servers).
- `dhcp-host` : Assigns a static IP address to a client based on its MAC address.
- `nmcli connection modify` : Used to modify NetworkManager connection settings.

By following these steps, you can configure NetworkManager to use a specific IP subnet with dnsmasq, allowing you to share your internet connection with other devices on your network using a custom IP range.

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Stack Overflow

2 answers · 9 years ago

linux - Assigning static IP address on shared connection in ...

I am wondering if there is an elegant way to ensure that **NetworkManager** assigns static **IP** address to each workstation based on its MAC address? [↗](#)



Red Hat Documentation

https://docs.redhat.com/red_hat_enterprise_linux/html

Chapter 18. Using dnsmasq in NetworkManager to send ...

With this configuration, **NetworkManager** adds the nameserver 127.0.0.1 entry to the `/etc/resolv.conf` file, and **dnsmasq** dynamically routes **DNS** requests to the ... [↗](#)



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Super User

<https://superuser.com/questions/using-dnsmasq-with...>

Using dnsmasq with NetworkManager - ubuntu

Nov 29, 2013 — The only solution to the problem is to disable the NM-drive **dnsmasq**, and install the "standard" **dnsmasq** and then **configure** it via its standard `/etc/dnsmasq`. ... [↗](#)

7 answers · Top answer: It is possible to override settings by putting them into `/etc/NetworkManager/dn...`

Dnsmasq configuration with **network-manager** ... 2 answers Mar 2, 2020

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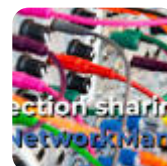


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connection sharing through wifi does not work / Networking ...

May 13, 2012 — I'm trying do **share** internet connection through wifi with my ipad, but it seems, that it does not work (connection is established, but wrong **ip** is obtained) [↗](#)

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