

DNS Configuration — Kali Linux (Updated)

Purpose

- Modify DNS settings to enhance anonymity and prevent traffic filtering.
 - Change name servers to avoid tracking through local gateways or ISPs.
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View Current DNS Settings

```
cat /etc/resolv.conf
```

Example output:

```
# Generated by NetworkManager
nameserver 192.168.1.1
```

This usually shows your router or gateway address. To improve privacy, you'll replace it with secure DNS servers.

Why Change DNS?

- The local DNS server (often your router) logs traffic requests.
 - Public or open DNS services don't record your local gateway activity.
 - Changing DNS makes it harder to trace your location and activity.
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Method 1 — Edit `/etc/resolv.conf` Directly (Recommended)

1. Open the file:

```
sudo nano /etc/resolv.conf
```

2. Replace the contents with:

```
# Custom DNS settings
nameserver 208.67.222.222
nameserver 208.67.220.220
```

3. Lock the file to prevent NetworkManager from overwriting it:

```
sudo chattr +i /etc/resolv.conf
```

4. To unlock it later:

```
sudo chattr -i /etc/resolv.conf
```

Method 2 — Use NetworkManager (Persistent Setup)

1. Create a new configuration file:

```
sudo nano /etc/NetworkManager/conf.d/dns.conf
```

2. Add the following lines:

```
[main]
dns=none
```

3. Restart NetworkManager:

```
sudo systemctl restart NetworkManager
```

4. Then edit `/etc/resolv.conf` as shown in **Method 1** to set your preferred DNS servers.

Restart Network Services

After any DNS changes:

```
sudo systemctl restart NetworkManager
```

Verify:

```
cat /etc/resolv.conf
```

Expected output:

```
# Custom DNS settings
nameserver 208.67.222.222
nameserver 208.67.220.220
```

Browser Configuration

Ensure your browser uses the system proxy settings: 1. Open **Iceweasel** (Firefox in Kali). 2. Go to **Preferences → Advanced → Network → Connection**. 3. Select **Use System Proxy Settings**.

This ensures DNS requests go through the same chain as your proxies.

Common Troubleshooting

- **DNS not changing:** Ensure `resolv.conf` is not managed by systemd-resolved or NetworkManager unless configured as above.
- **Still showing old DNS:** Restart your system or unlock `resolv.conf` and reapply settings.
- **Slow connection:** Try faster public DNS servers (e.g., Google `8.8.8.8`, Cloudflare `1.1.1.1`).

Tips & Notes

- Always combine custom DNS with ProxyChains or VPN for full anonymity.
- Avoid using your ISP's DNS; it records browsing history.
- OpenDNS, Google DNS, and Cloudflare DNS are reliable and fast.
- Example DNS options:
 - OpenDNS → `208.67.222.222`, `208.67.220.220`
 - Google → `8.8.8.8`, `8.8.4.4`
 - Cloudflare → `1.1.1.1`, `1.0.0.1`