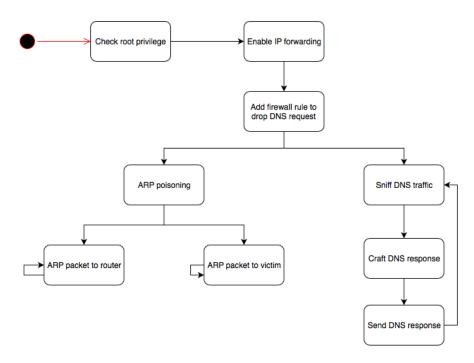
# DNS Spoofing Application

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# Table of Contents

Diagram	2
Description	2
Pseudocode	2

### Diagram



## Description

- Check root privilege: check if the user is the root user
- Enable IP forwarding: enable IP forwarding to act as a router
- Add firewall rule to drop DNS request: drop any DNS packet to prevent DNS lookup
- ARP poisoning: start a new thread and do ARP poisoning
- ARP packet to router: send ARP packet which pretend to be the victim machine to router
- ARP packet to victim: send ARP packet which pretend to be the router to victim
- Sniff DNS traffic: sniff for any UDP traffic to port 53 (DNS)
- Craft DNS response: craft a new DNS packet which will be sent back to victim
- Send DNS response: send the new DNS packet to the victim

### Pseudocode

```
DNS Spoofing
Check if user is root user
Enable IP forwarding
Add firewall rule to drop DNS request to port 53
Start ARP poisoning thread:
While True
Send ARP packet to router
Send ARP packet to victim
Endwhile
Start sniffing thread:
While True
Receive DNS request from the victim machine
```

Craft a new DNS response to match DNS request Send back DNS response to the victim Endwhile