Servidor de Red con dnsmasq

Fase 1: Instalación y configuración básica

```
sudo apt update && sudo apt install dnsmasq -y
```

```
sudo nano /etc/dnsmasq.conf
```

```
interface=enp0s8

bind-interfaces

# Desarrollo

dhcp-range=192.168.10.100,192.168.10.150,12h

# Diseño

dhcp-range=192.168.20.100,192.168.20.150,12h

# Administración

dhcp-range=192.168.30.100,192.168.30.150,12h

# PC desarrollo

dhcp-host=AA:BB:CC:11:22:33,192.168.10.10

# Impresora

dhcp-host=DD:EE:FF:44:55:66,192.168.20.20

# Cámara IP

dhcp-host=77:88:99:AA:BB:CC,192.168.30.30
```

```
sudo systemctl restart dnsmasq
```

Fase 2: Control de acceso

dhcp-ignore=tag:!known

dhcp-host=AA:BB:CC:11:22:33,set:known

dhcp-host=DD:EE:FF:44:55:66,set:known

dhcp-host=AA:BB:CC:11:22:33,dev-pc1,192.168.10.10

sudo iptables -A INPUT -s 192.168.10.0/24 -j ACCEPT

sudo iptables -A INPUT -s 192.168.20.0/24 -j ACCEPT

sudo iptables -A INPUT -j DROP

Fase 3: Simulación de red

sudo dhclient

ip a

ping 8.8.8.8

ping servidor_dnsmasq

Fase 4: Supervisión

sudo apt install tcpdump arp-scan -y

sudo tcpdump -i enp0s8 port 67 or port 53

tail -f /var/log/syslog

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sudo arp-scan --interface=enp0s8 --localnet