

WNAM , , . , WNAM, , :

- DHCP DHCP ( )DHCP-;
- , SNMP CDP LLDP Ethernet;
- , SNMP ;
- TCP/IP, NMAP.

## DHCP-

root :

```
cd /home/wnam

mkdir -p dhcp-profiler/logs

cd dhcp-profiler

mv /root/wnam-dhcp-profiler-agent . # ,

chown -R wnam:wnam *

chmod +x wnam-dhcp-profiler-agent

cat << EOF > /etc/systemd/system/dhcp-profiler.service

[Unit]
Description=WNAM Profiler DHCP Probe Agent

[Service]
WorkingDirectory=/home/wnam/dhcp-profiler
ExecStart=/home/wnam/dhcp-profiler/wnam-dhcp-profiler-agent -i eth0 -s 127.0.0.1
SuccessExitStatus=143
Restart=on-failure
RestartSec=10
User=wnam
Group=wnam

StandardOutput=append:/home/wnam/dhcp-profiler/logs/console.log
StandardError=append:/home/wnam/dhcp-profiler/logs/console.log

AmbientCapabilities=CAP_NET_RAW CAP_NET_ADMIN

[Install]
WantedBy=multi-user.target

EOF
```

/etc/systemd/system/dhcp-profiler.service, , DHCP-, "eth0":

```
systemctl enable dhcp-profiler.service
```

( , WNAM). IP- WNAM "-s". udp:20001. , :

```
systemctl start dhcp-profiler.service

systemctl status dhcp-profiler.service

tail -f /home/wnam/dhcp-profiler/logs/console.log
```

DHCP-. - , , - :

```
2023:05:11 17:26:11: source address: DA:5F:B1:E0:C4:CB, relay address: 0.0.0.0
2023:05:11 17:26:11: source address: DA:5F:B1:E0:C4:CB, relay address:
172.16.130.38
```

wnam.log DHCP:-

```
17:31:28.124 DEBUG [ProfilingService.java:379] - DhcpMessagePacket from /172.16.130.13:36955

17:31:28.125 INFO [ProfilingService.java:385] - DhcpMessagePacket from: DA:5F:B1:E0:C4:CB

17:31:28.125 INFO [ProfilingService.java:408] - **
DHO_DHCP_PARAMETER_REQUEST_LIST: 1, 121, 3, 6, 15, 114, 119, 252

17:31:28.126 INFO [ProfilingService.java:415] - ** matched dhcp-param-list
check: Check(super=ProfilerObject(id=83, name=Apple-DeviceRule3check1),
description=Apple-DeviceRule3check1, attributeName=dhcp-parameter-request-list,
attributeValue=1, 121, 3, 6, 15, 114, 119, 252, operator=EQUALS, type=DHCP)

17:31:28.127 INFO [ProfilingService.java:430] - ** matched oui check: Check
(super=ProfilerObject(id=85, name=Apple-DeviceRule1Check1), description=Apple-
DeviceRule1Check1, attributeName=OUI, attributeValue=Apple, operator=CONTAINS,
type=MAC)

17:31:28.128 INFO [ProfilingService.java:430] - ** matched oui check: Check
(super=ProfilerObject(id=805, name=FreeBSD-Workstation-Rule2-Check2),
description=Condition for FreeBSD-Workstation, based on MAC:OUI,
attributeName=OUI, attributeValue=Apple, Inc., operator=NOTEQUALS, type=MAC)

17:31:28.128 INFO [ProfilingService.java:430] - ** matched oui check: Check
(super=ProfilerObject(id=108, name=Applera-Check), description=Check for Applera
Holding B.V. Singapore Operations, attributeName=OUI, attributeValue=Applera
Holding B.V. Singapore Operations, operator=EQUALS, type=MAC)
```