

v1.19_ IP Wi-Fi

:

1. DHCP .
2. , SSID VLAN ID.
3. , SSID, .
4. SSID , , .
5. SSID ()
6. (/)
7. DHCP.
8. IP , ping (icmp).

, . MAC DHCP.

DHCP

DHCP DHCP .

:

- Discover.
- Discover, Offer.
- Discover Offer, Request.

1. Discover .

, Discover, tcpdump , Discover.

- Discover , , DHCP-relay .
- Discover , , (1.1).

1.1 Discover , .

Discover -, , . , Discover DHCP :

/etc/default/isc-dhcp-server ,:

```
INTERFACES="eth0 eth1"
```

2. DHCP Discover, Offer.

DHCP . :

•
•
•
•

2.1

/etc/dhcp/dhcpd.conf , , DHCP-relay (). ,:
subnet 192.168.1.0 netmask 255.255.255.0 { }

2.2

, , : [ISC-DHCP-server](#)

3 DHCP Discover Offer, Request.

tcpdump , Discover , Offer.

- Offer , , , - Discover , Offer .
- Offer , DHCP-relay DHCP DHCP-relay.

4 dhcp- dhcp-relay

dhcp-relay .

DHCP-relay

GRE

1. GRE .

:

- c () EMS «» IP . «» «» «».
- ESR GRE . :

show tunnels status | include <XXX.XXX.XXX.XXX>

, XXX.XXX.XXX.XXX – IP

, .

- , IP ESR, DHCP
- 1 – DHCP ESR
- 2, SUB-, VLAN.

2. SUB-GRE .

techsupport, su :

tcpdump -i dygre. -evn -c100

, GRE , – VLAN ID

Discover :

- Discover - , . DHCP (43 , 12), .
- Discover , Offer - DHCP (3).

3. DHCP .

techsupport, su :

tcpdump -i tel_YYY.ZZZ -evn -c100

, YYY – ESR, ZZZ – VLAN.

- Discover – ESR.
- Discover DHCP , Offer – DHCP ESR.
- Discover Offer , Request – ESR.

GRE

1. . Discover .

- Discover – :

1. DHCP-relay,
- 2.
3. ,

- Discover , Offer – DHCP .

2. tcdump DHCP .

- Discover – DHCP-relay. firewall DHCP-relay.
- Discover DHCP , Offer – DHCP DHCP-relay.
- Discover Offer , Request – firewall DHCP-relay.

SSID , VLAN, SSID. (pcap) , , , eth. :

:

- Discover , , . , - .

GRE:

- Discover , eth , , GRE - , , 12 . DHCP (43 , 12)
- Discover , , , . ESR.

GRE:

- Discover eth, DHCP-relay, , VLAN, DHCP-relay.