

# 02. DHCP snooping

- 2.1. DHCP snooping
- 2.2. DHCP snooping
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- 2.4. DHCP snooping

## 2.1. DHCP snooping

DHCP snooping DHCP- IP- DHCP DHCP- , . , DHCP- DHCP relay, - DHCP-. DHCP- , DHCP- , DHCP- , : shutdown b lackhole. DHCP Snooping Binding, IP DHCP , IP- MAC- DHCP-, VLAN . C .

## 2.2. DHCP snooping

1. DHCP Snooping;
2. DHCP Snooping Binding;
3. DHCP ;
4. ;
5. DHCP Snooping binding ;
6. DHCP Snooping binding ;
7. DHCP- ;
8. DHCP;
9. ;

### 1. DHCP Snooping

| ip dhcp snooping enable            | DHCP snooping                |
|------------------------------------|------------------------------|
| no ip dhcp snooping enable         | DHCP snooping                |
| !                                  |                              |
| ip dhcp snooping vlan <vlan_id>    | DHCP snooping VLAN <vlan_id> |
| no ip dhcp snooping vlan <vlan_id> | DHCP snooping VLAN <vlan_id> |
| !                                  |                              |

### 2. DHCP Snooping Binding

| ip dhcp snooping binding enable    | DHCP snooping binding |
|------------------------------------|-----------------------|
| no ip dhcp snooping binding enable | DHCP snooping binding |
| !                                  |                       |

### 3. DHCP

| ip user helper-address A.B.C.D [port <udpport>] source <ipAddr> (secondary) | DHCP |
|-----------------------------------------------------------------------------|------|
| no ip user helper-address (secondary)                                       | DHCP |
| !                                                                           |      |

### 4.

|                           |     |
|---------------------------|-----|
|                           |     |
| ip dhcp snooping trust    |     |
| no ip dhcp snooping trust | (-) |
| !                         |     |

#### 5. DHCP Snooping binding

|                                                            |                                                          |
|------------------------------------------------------------|----------------------------------------------------------|
|                                                            |                                                          |
| ip dhcp snooping binding user-control [vlan] [max-user]    | IP-, VLAN VLAN, vlan - VLAN, max-user - . vlan max-user. |
| no ip dhcp snooping binding user-control [vlan] [max-user] | IP-, VLAN VLAN                                           |
| !                                                          |                                                          |

#### 6. DHCP Snooping binding

|                                                                                    |                       |
|------------------------------------------------------------------------------------|-----------------------|
|                                                                                    |                       |
| ip dhcp snooping binding user <mac> address <ipAddr> interface (ethernet) <ifname> | DHCP Snooping binding |
| no ip dhcp snooping binding user <mac> interface (ethernet) <ifname>               | DHCP Snooping binding |
| !                                                                                  |                       |

#### 7. DHCP-

|                                                                  |                                                                    |
|------------------------------------------------------------------|--------------------------------------------------------------------|
|                                                                  |                                                                    |
| ip dhcp snooping action {shutdown blackhole} [recovery <second>] | DHCP- : shutdown - , blackhole - MAC , DHCP-. recovery - <second>. |
| no ip dhcp snooping action                                       | DHCP- ( )                                                          |
| !                                                                |                                                                    |

#### 8. DHCP

|                                   |                 |
|-----------------------------------|-----------------|
|                                   |                 |
| ip dhcp snooping limit-rate <pps> | DHCP 0 100 pps. |
| no ip dhcp snooping limit-rate    | DHCP (-)        |
| !                                 |                 |

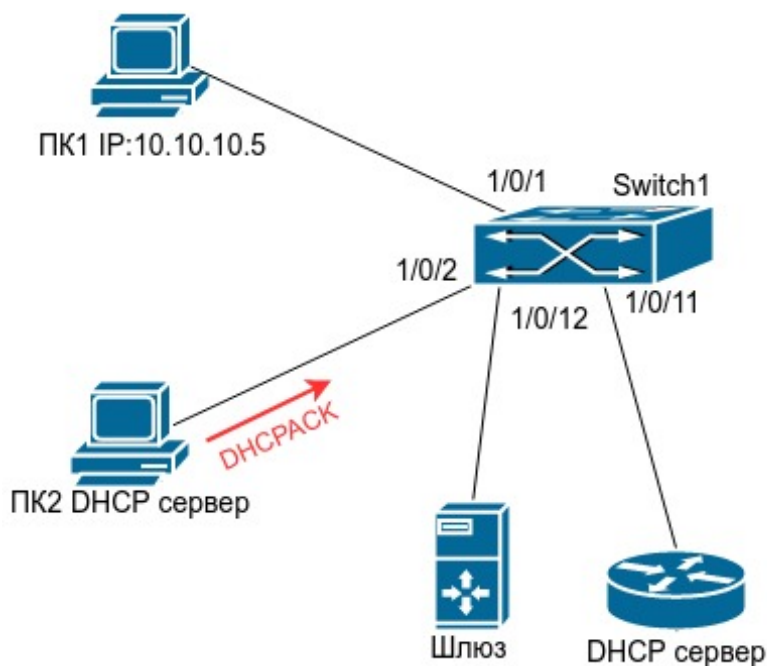
#### 9. DHCP snooping binding

|                                   |                       |
|-----------------------------------|-----------------------|
|                                   |                       |
| show ip dhcp snooping binding all | DHCP snooping binding |
| !                                 |                       |

#### 10.

|                                |  |
|--------------------------------|--|
|                                |  |
| debug ip dhcp snooping packet  |  |
| debug ip dhcp snooping event   |  |
| debug ip dhcp snooping update  |  |
| debug ip dhcp snooping binding |  |
| !                              |  |

## 2.3. DHCP snooping



40.1 - DHCP snooping

40.1, 1 1/0/1 Switch1 DHCP, IP- 10.10.10.5. DHCP- 1/0/11 1/0/12, . 2, 1/0/2 DHCP-, DHCPACK. DHCP snooping .

Switch1:

```
Switch1(config)#ip dhcp snooping enable
Switch1(config)#interface ethernet 1/0/11
Switch1(Config-Ethernet1/0/11)#ip dhcp snooping trust
Switch1(Config-Ethernet1/0/11)#exit
Switch1(config)#interface ethernet 1/0/12
Switch1(Config-Ethernet1/0/12)#ip dhcp snooping trust
Switch1(Config-Ethernet1/0/12)#exit
Switch1(config)#interface ethernet 1/0/1-2
Switch1(Config-Port-Range)#ip dhcp snooping action shutdown
```

## 2.4. DHCP snooping

- , DHCP-snooping;
- DHCP , , .