

# VLAN на роутере

## Алгоритм

- Создание Bridge
- Создание VLAN
- Добавление портов в Bridge
- Определение тегированный (trunk) и нетегированный (access) порт
- Настройка локальной сети для VLAN
- Настройка DHCP сервера для VLAN

## Bridge→Bridge

```
/interface bridge  
add admin-mac=AA:AA:E7:78:04:D7 auto-mac=no name=Bridge vlan-filtering=yes
```

## Interfaces→VLAN

```
/interface vlan  
add interface=Bridge name=Bridge-Vlan10 vlan-id=10  
add interface=Bridge name=Bridge-Vlan20 vlan-id=20  
add interface=Bridge name=Bridge-Vlan30 vlan-id=30
```

## Bridge→Ports

```
/interface bridge port  
add bridge=Bridge interface=ether2 pvid=10  
add bridge=Bridge interface=ether3 pvid=20  
add bridge=Bridge interface=ether4 pvid=30
```

## Bridge→VLANs

```
/interface bridge vlan  
add bridge=Bridge tagged=Bridge untagged=ether2 vlan-ids=10  
add bridge=Bridge tagged=Bridge untagged=ether3 vlan-ids=20  
add bridge=Bridge tagged=Bridge untagged=ether4 vlan-ids=30
```

## IP→Addresses

```
/ip address
```

```
add    address=192.168.1.1/24      interface=Bridge-Vlan10
network=192.168.1.0

/ip address
add    address=10.20.20.1/24      interface=Bridge-Vlan20
network=10.20.20.0

/ip address
add    address=10.30.30.1/24      interface=Bridge-Vlan30
network=10.30.30.0
```

## IP→DHCP Server→DHCP

```
/ip dhcp-server
add address-pool=Pool-LAN-10 disabled=no interface=Bridge-
Vlan10 lease-time=\n
1d name=DHCP-LAN-10

/ip dhcp-server
add address-pool=Pool-LAN-20 disabled=no interface=Bridge-
Vlan20 lease-time=\n
1d name=DHCP-LAN-10

/ip dhcp-server
add address-pool=Pool-LAN-30 disabled=no interface=Bridge-
Vlan30 lease-time=\n
1d name=DHCP-LAN-30
```