

Router
configure VLAN on ports
configure LAN on VLAN

<https://blog.csdn.net/pwc1996/article/details/50589248>
<https://codertw.com/%E7%A8%B%E5%BC%8F%E8%AA%9E%E8%A8%80/528930/>

DrayTek Vigor2832 Series

LAN >> VLAN Configuration

VLAN Configuration

☒ Enable

	LAN				Wireless LAN				Subnet	VLAN Tag		
	P1	P2	P3	P4	SSID1	SSID2	SSID3	SSID4		Enable	VID	Priority
VLAN0	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 1	<input type="checkbox"/>	0	0
VLAN1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 2	<input checked="" type="checkbox"/>	2	0
VLAN2	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 3	<input checked="" type="checkbox"/>	3	0
VLAN3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 4	<input checked="" type="checkbox"/>	4	0
VLAN4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 1	<input type="checkbox"/>	0	0
VLAN5	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 1	<input type="checkbox"/>	0	0
VLAN6	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 1	<input type="checkbox"/>	0	0
VLAN7	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	LAN 1	<input type="checkbox"/>	0	0

☒ Permit untagged device in P1 to access router

- For each VLAN row, if enable is checked for the VLAN Tag then the corresponding VID will be applied to wired LAN traffic.
- Wireless LAN traffic is always untagged, but will still be a member of the VLAN group selected.
- Each VID must be unique.

OK Clear Cancel

Admin mode
Status: Ready

Router

configure DHCP on LAN

test/vlan at master · pos1... x router_vigor2832_config... x vlan dhcp2.drawio - draw... x DrayTek Vigor2832 Series x

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Auto Logout IP6

Dashboard
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Search menu

WAN
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General Setup
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Admin mode
Status: Ready

LAN >> General Setup

General Setup

Index	Enable	DHCP	IP Address		
LAN 1	V	V	192.168.1.1	Details Page	IPv6
LAN 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	192.168.2.1	Details Page	IPv6
LAN 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	192.168.3.1	Details Page	IPv6
LAN 4	<input type="checkbox"/>	<input checked="" type="checkbox"/>	192.168.4.1	Details Page	IPv6
IP Routed Subnet	<input type="checkbox"/>	<input checked="" type="checkbox"/>	192.168.0.1	Details Page	

DHCP Server Option

Note:
Please enable LAN 2 - 4 on [LAN >> VLAN](#) page before configure them.
Enable DMZ port will make the LAN Port 1 be deselected in setting on VLAN page, LAN Port 1 will become the DMZ Port.

☐ Force router to use "DNS server IP address" settings specified in LAN1

Inter-LAN Routing

Subnet	LAN 1	LAN 2	LAN 3	LAN 4
LAN 1	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LAN 2	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
LAN 3	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
LAN 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

OK

Router

configure DHCP

test/vlan at master · pos1... x router_vigor2832_config... x vlan dhcp2.drawio - draw... x DrayTek Vigor2832 Series x

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Admin mode
Status: Ready

LAN >> General Setup

LAN 1 Ethernet TCP / IP and DHCP Setup

Network Configuration
For NAT Usage

IP Address 192.168.1.1

Subnet Mask 255.255.255.0 / 24

RIP Protocol Control Disable

LAN 1 IPv6 Setup

DHCP Server Configuration

☐ Disable ☒ Enable Server ☐ Enable Relay Agent

Start IP Address 192.168.1.10

IP Pool Counts 200 (max. 1021)

Gateway IP Address 192.168.1.1

Lease Time 86400 (s)

☒ Clear DHCP lease for inactive clients periodically

DNS Server IP Address

Primary IP Address

Secondary IP Address

OK

Switch

create vlan

Create VLAN

test/vlan at master · pos1... x router_vigor2832_config... x vlan dhcp2.drawio - draw... x VigorSwitch G1085

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Auto Logout : 3 min Admin 14:15:34

Dashboard

Status

Switch LAN

General Setup

Port Setting

Mirror

Link Aggregation

VLAN Management

Create Vlan

Interface Settings

Voice VLAN

MAC VLAN

Serveillance VLAN

EEE

Multicast

Jumbo Frame

Switch LAN > VLAN Management > Create Vlan > Create VLAN

Create VLAN

Action: ☒ Add ☐ Delete

VLAN ID: 10 or 10,20 or 10-20

VLAN Name:

Apply

VLAN ID	VLAN Name	VLAN Type	Modify
1	default	Default	
15	VLAN0015	Static	
16	VLAN0016	Static	
17	VLAN0017	Static	
18	VLAN0018	Static	

Switch
config VLAN on ports

test/vlan at master · pos1... x router_vigor2832_config... x vlan dhcp2.drawio - draw... x VigorSwitch G1085

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DrayTek VigorSwitch G1085

Auto Logout : 3 min

Dashboard

Status

Switch LAN

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VLAN Management

Create Vlan

Interface Settings

Voice VLAN

MAC VLAN

Serveillance VLAN

EEE

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Jumbo Frame

Interface Settings

Port Select: Nothing selected

Interface VLAN Mode: ☒ Hybrid ☐ Access ☐ Trunk

PVID: 1 (1 - 4094)

Accepted Type: ☒ All ☐ Tag Only ☐ Untag Only

Ingress Filtering: ☒ Enable ☐ Disable

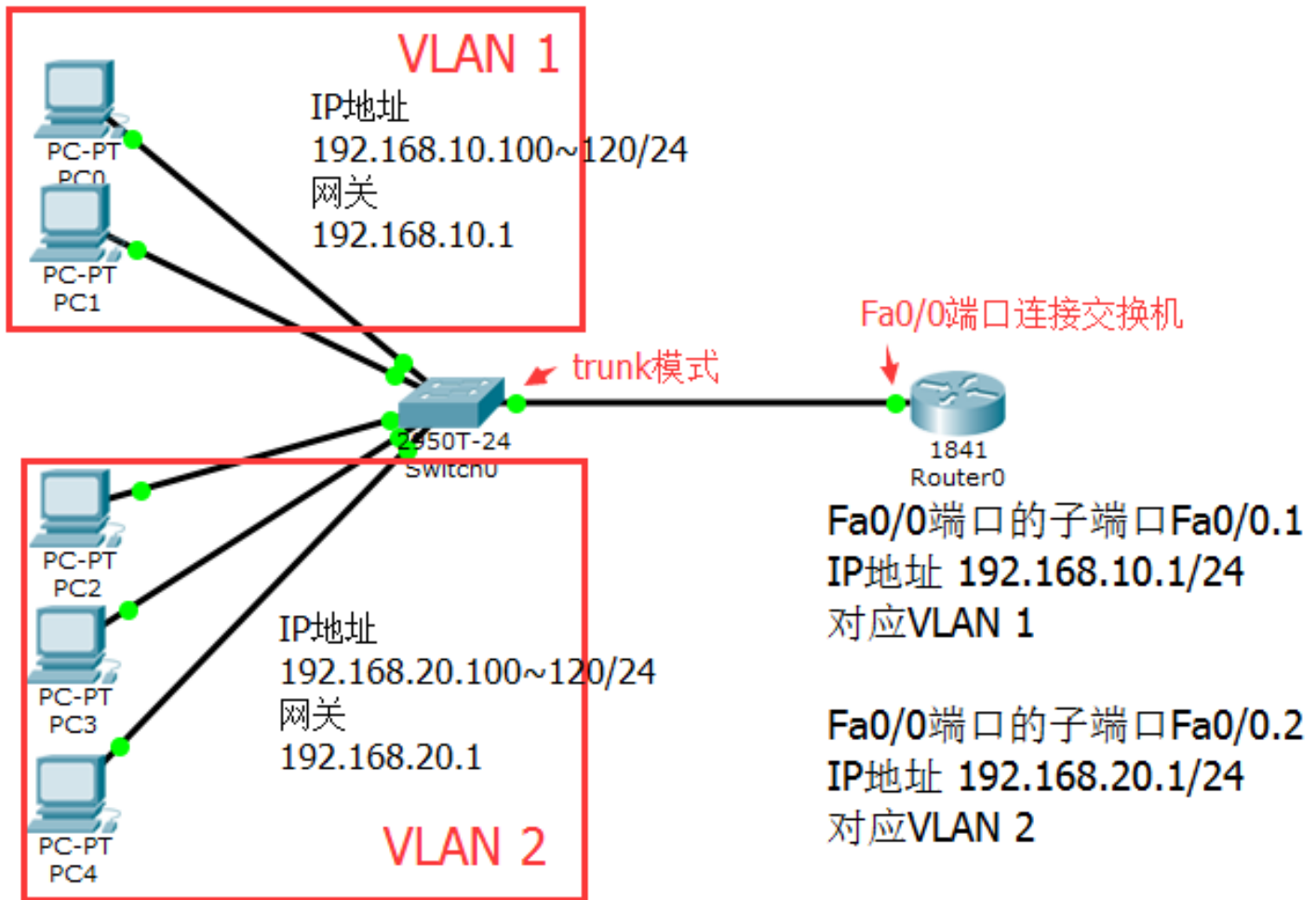
Tagged VLAN: Nothing selected

Untagged VLAN: Nothing selected

Forbidden VLAN: Nothing selected

Apply

Port	Interface VLA...	PVID	Tagged VLAN	Untagged VL...	Forbidden VL...	Accept Fram...	Ingress
GE1	Trunk	1	---	1	---	ALL	Enabled
GE2	Trunk	1	---	1	---	ALL	Enabled
GE3	Trunk	1	---	1	---	ALL	Enabled



```
1 Router> enable
2 Router# configure terminal
3 Router(config)# interface FastEthernet 0/0
4 Router(config-if)# no shutdown //启动Fa0/0端口
5
6 Router(config-if)# interface FastEthernet 0/0.1 //添加设置Fa0/0端口的子端口
7 //同理Fa0/1端口的子端口
8
9 Router(config-subif)# encapsulation dot1Q 1 //对该子端口Fa0/0.1进
10 //后面的数字1代表是
11
12 Router(config-subif)# ip address 192.168.10.1 255.255.255.0 //设置该子端口Fa0/0.1的IP和
13 Router(config-subif)# no shutdown //启动该子端口
14
15 Router(config-if)# interface FastEthernet 0/0.2 //添加设置Fa0/0端口的子端口
16 Router(config-subif)# encapsulation dot1Q 2 //对该子端口Fa0/0.2进
17
18 Router(config-subif)# ip address 192.168.20.1 255.255.255.0 //设置该子端口Fa0/0.2的IP和
19 Router(config-subif)# no shutdown //启动该子端口
20
21 Router(config-subif)# end //完成设置退出
22
```

登录后复制

```
23 Router# show ip route
24
25 Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
26         D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
27         N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
28         E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
29         i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
30         * - candidate default, U - per-user static route, o - ODR
31         P - periodic downloaded static route
32
33 Gateway of last resort is not set
34
35 C    192.168.10.0/24 is directly connected, FastEthernet0/0.1
36 C    192.168.20.0/24 is directly connected, FastEthernet0/0.2
```