



Application Guide

WAN/LAN VLAN Configuration



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Revision History

Updates between document versions are cumulative. Therefore, the latest document version contains all updates made to previous versions.

Doc Version	Product	Release Data	Details
V1.0	Hongdian Router	2017.08.23	First Release
V2.0	Hongdian Router	2020.09.03	

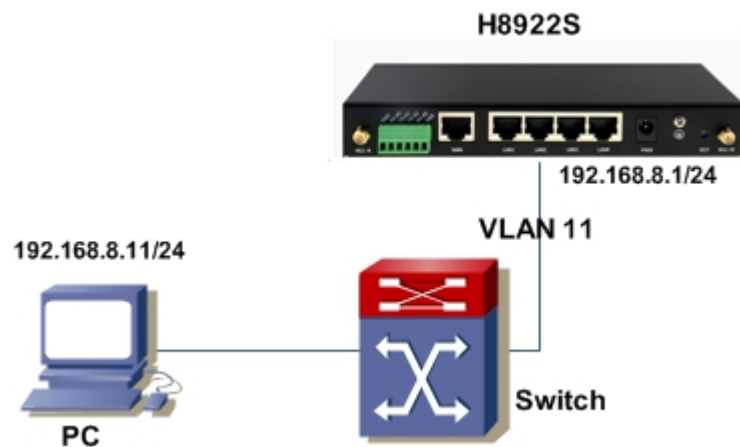
1 Overview

VLAN (Virtual Local Area Network)

VLAN technology is widely used in network networking. In some network networking, we need to connect some switches and routers through the WAN port or LAN port of the Hongdian router to form a network. This article will introduce in detail how Hongdian routers are connected to switches or routers of CISCO and other brands through the WAN port or the LAN port.

2 Description

2.1 LAN Test Topology



Hongdian Setup

Network	IPv6	Applications	VPN	Forward	Security	System	Status
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch
Host Name	<input type="text" value="Router"/>		* Max length is 32				
IP1	<input type="text" value="192.168.8.1/24"/>		* eg. 192.168.8.1/24				
IP2	<input type="text"/>						
IP3	<input type="text"/>						
IP4	<input type="text"/>						
Loopback Address	<input type="text"/>		eg. 10.1.1.1/24				
Port Attribute	<input type="button" value="Display"/>						

VLAN Configure

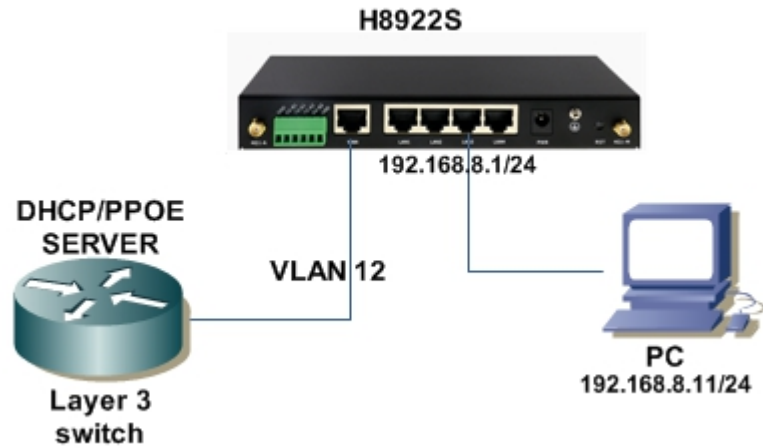
VLAN Interface	VID	Connection Type	Operation

Network	IPv6	Applications	VPN	Forward	Security	System	Status
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch
LAN VLAN Configure							
VID	<input type="text" value="11"/>		* 1-4094				
IP	<input type="text"/>		eg. 192.168.8.1/24				
<input type="button" value="Save"/> <input type="button" value="Cancel"/>							

Check Ping (From PC)

```
C:\Users\Administrator>ping 192.168.8.1 -t
正在 Ping 192.168.8.1 具有 32 字节的数据:
来自 192.168.8.1 的回复: 字节=32 时间<1ms TTL=64
来自 192.168.8.1 的回复: 字节=32 时间<1ms TTL=64
来自 192.168.8.1 的回复: 字节=32 时间<1ms TTL=64
来自 192.168.8.1 的回复: 字节=32 时间<1ms TTL=64
```

2.2 WAN Test Topology



Hongdian Setup (DHCP)

Network | IPv6 | Applications | VPN | Forward | Security | System | Status

LAN | WAN | **WLAN** | Modem | Parameter Select | Network Type | Link Backup | Link Switch

Connection Type: static ip ▼

IP: 192.168.10.1/24 * eg. 192.168.10.1/24

Port Attribute: Display

VLAN Configure

VLAN Interface	VID	Connection Type	Operation

Save Add VLAN Refresh

Network | IPv6 | Applications | VPN | Forward | Security | System | Status

LAN | WAN | **WLAN** | Modem | Parameter Select | Network Type | Link Backup | Link Switch

WAN VLAN Configure

VID: 12 * 4-4094

Connection Type: dhcp ▼

Save Cancel

Hongdian Setup (PPPOE)

Network	IPv6	Applications	VPN	Forward	Security	System	Status
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch

Connection Type:

IP: * eg. 192.168.10.1/24

Port Attribute:

VLAN Configure

VLAN Interface	VID	Connection Type	Operation

Network	IPv6	Applications	VPN	Forward	Security	System	Status
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch

WAN VLAN Configure

VID: * 4-4094

Connection Type:

Basic Settings

Interface Name:

Service Name: * Max length is 64

Username: * Max length is 64

Password: * Max length is 64

Advanced Settings:

After configuring the VLAN function, if you need to use the WAN port as a gateway, you also need to configure the default gateway for the vlan interface and add the MASQ of the VLAN interface.

Network	IPv6	Applications	VPN	Forward	Security	System	Status
LAN	WAN	WLAN	Modem	Parameter Select	Network Type	Link Backup	Link Switch

Default Route:

DNS Type:

Interface Name:

The screenshot shows a network configuration interface with the following elements:

- Navigation tabs: Network, IPv6, Applications, VPN, **Forward**, Security, System, Status.
- Sub-navigation tabs: NAT, Routing, RIP, OSPF, BGP, QOS.
- NAT Service: A section with "Enable" and "Disable" buttons.
- MASQ: A section containing a table with columns "Interface" and "Operation".

Interface	Operation
modem	Mod Del
eth0.12	Mod Del

Below the MASQ section, the label "SNAT" is visible.

Check Ping (From PC)


```
C:\Users\Administrator>ping 8.8.8.8 -t
正在 Ping 8.8.8.8 具有 32 字节的数据:
来自 8.8.8.8 的回复: 字节=32 时间=3ms TTL=58
来自 8.8.8.8 的回复: 字节=32 时间=2ms TTL=58
来自 8.8.8.8 的回复: 字节=32 时间=3ms TTL=58
来自 8.8.8.8 的回复: 字节=32 时间=3ms TTL=58
```





Create smart things



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