

Article Overview

To configure an access VLAN on a Huijue Layer 3 switch, assign the port to the VLAN and create a Switch Virtual Interface (SVI) for Layer 3 routing.

Step 1: Configure the Access Port

- o Enter the interface configuration mode for the port connected to the end device:

```
[Switch-GigabitEthernet 1/0/2]
```

- o Set the port as an access port:

```
port link-type access
```

- o Assign the port to a VLAN (for example, VLAN 2):

```
port default vlan 2
```

This ensures that all traffic from this port is tagged with VLAN 2 and belongs to the same broadcast domain .

Step 2: Create the VLAN (if it does not exist)

```
vlan 2description Sales_VLAN
```

This step adds the VLAN to the switch database and allows multiple ports to be grouped logically .

Step 3: Configure the Switch Virtual Interface (SVI)

- o Create an SVI for the VLAN to enable Layer 3 routing and management:

```
interface Vlanif 2ip address 192.168.2.1 255.255.255.0no shutdown
```

- o The SVI IP address acts as the default gateway for all devices in VLAN 2, allowing them to communicate with other VLANs or external networks .

Step 4: Enable Inter-VLAN Routing (Optional)

If multiple VLANs exist and devices need to communicate across VLANs:

- o Create SVIs for each VLAN with unique IP subnets.

- o Ensure routing is enabled on the Layer 3 switch. Huijue switches typically perform hardware-based routing automatically once SVIs are configured .

Step 5: Verify Configuration

- o Check VLAN membership: `display vlan`

- o Check SVI status: `display interface Vlanif 2`

- o Test connectivity between devices in the same VLAN and across VLANs using ping tests .

Huijue Layer 3 Switch Access VLAN

Summary

By configuring the access port, creating the VLAN, and setting up an SVI with an IP address, a Huijue Layer 3 switch can handle both Layer 2 switching and Layer 3 routing. This setup allows devices in the same VLAN to communicate directly and enables inter-VLAN communication through the switch's routing capabilities.

In order to achieve more efficient inter-VLAN routing, Layer 3 switches are used. A Layer 3 switch incorporates router functions

Before configuring Layer 3 sub-interfaces to implement inter-VLAN communication, you have completed the following

Description Juniper Networks Legacy EX Series switches connect all devices in an office or data center into a single

This is where a Layer 3 switch comes in handy. A Layer 3 switch can perform IP routing tasks as well as Layer 2 tasks such as

Configuring inter VLAN routes on Huawei's layer-3 switches mainly includes creating VLANs, port division, layer-3

The layer 3 switch is doing the routing. In this case, the VLAN that your internet router/firewall is connected to will

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a

Master Cisco Layer 3 switches for inter-VLAN routing without external routers. Boost network performance, reduce

Super-VLAN is Layer 3 technology configured on a Layer 3 switch, whereas MUX VLAN is configured on a Layer 2 switch. The MUX

VLAN Configuration Guidelines on Layer 3 Switch Configuring two or more VLANs to communicate with each other

This tutorial covers everything from VLAN creation to interface assignment and

Huijue Layer 3 Switch Access VLAN

Layer 3 switching is more scalable than a router which only provides a limited number of available ports. How to

I know that I can configure separate VLAN"s on a L2 switch and then set port to trunk so all VLAN traffic passes. But

Enterprise campus LANs use Layer 3 switches to provide inter-VLAN routing. Layer 3 switches use hardware-based switching to

I am trying to incorporate a layer 3 switch into a network. (see diagram 1 below). My problem is that in the

As far as the design goes I will try to use Cisco"s hierarchical internetworking model (Distribution, Aggregation and Access Layers)

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