Configure DHCP on the ENSP Core Switch



Overview

After the configuration is complete, go to each pc to select DHCP, and then perform ipconfig on the command line to view the ip, mask, and gateway configured by dhcp.

Key Takeaways

You can configure DHCP on a Huawei ENSP core switch by enabling the DHCP service, creating IP address pools, assigning VLAN interfaces, and selecting either interface-based or global DHCP allocation. Step 1: Enter System View and Enable DHCPAccess the switch CLI and enter system view: CodeCopy system-view Enable the DHCP service: CodeCopy dhcp enable By default, the DHCP service is disabled, so this step is essential. Step 2: Configure VLAN InterfacesCreate VLAN interfaces (VLANIF) for each subnet: CodeCopy interface Vlanif 10[Huawei-Vlanif10] ip address 192.

168. 10. 1 24[Huawei-Vlanif10] quit interface Vlanif 20[Huawei-Vlanif20] ip address 192.

168. 20. 1 24[Huawei-Vlanif20] quit These VLAN interfaces act as gateways for the DHCP clients.

Step 3: Create DHCP Address PoolsDefine an IP address pool for each subnet: CodeCopy ip pool POOL10[Huawei-ip-pool-POOL10] network 192. 168. 10.

0 mask 255. 255. 255.

0[Huawei-ip-pool-POOL10] gateway-list 192. 168. 10.

1[Huawei-ip-pool-POOL10] dns-list 8. 8. 8.

8 114. 114. 114.

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114[Huawei-ip-pool-POOL10] quit ip pool POOL20[Huawei-ip-pool-POOL20] network 192. 168. 20.

0 mask 255. 255. 255.

0[Huawei-ip-pool-POOL20] gateway-list 192. 168. 20.

1[Huawei-ip-pool-POOL20] dns-list 8. 8. 8.

8 114. 114. 114.

114[Huawei-ip-pool-POOL20] quit You can also configure lease times for each pool: CodeCopy[Huawei-ip-pool-POOL10] lease day 30[Huawei-ip-pool-POOL20] lease hour 36 This allows different lease durations for permanent and temporary users. Step 4: Bind DHCP to VLAN InterfacesChoose either interface-based or global DHCP allocation: Interface-based: The interface IP is used as the gateway. CodeCopy[Huawei-Vlanif10] dhcp select interface[Huawei-Vlanif20] dhcp select interface Global allocation: The DHCP server assigns addresses from the global pool.

CodeCopy[Huawei-Vlanif10] dhcp select global[Huawei-Vlanif20] dhcp select global Interface-based allocation is simpler for small networks, while global allocation is suitable for larger networks. Step 5: Configure Trunk Links to Access SwitchesEnsure the links connecting the core switch to access switches are configured as trunks: CodeCopy interface GigabitEthernet 0/0/1[Huawei-GigabitEthernet0/0/1] port link-type trunk[Huawei-GigabitEthernet0/0/1] port trunk allow-pass vlan 10 20[Huawei-GigabitEthernet0/0/1] quit This allows DHCP requests from clients on different VLANs to reach the core switch. Step 6: Verify DHCP ConfigurationCheck the DHCP bindings and active leases: CodeCopy display dhcp server ip-in-use display dhcp server statistics Test by connecting a client to an access switch and verifying it receives an IP address from the correct pool.

Optional: Configure DHCP RelayIf the DHCP server is not on the same subnet as the clients, enable DHCP relay on the VLAN interface: CodeCopy[Huawei-Vlanif10] dhcp relay server-ip 192. 168. 1.

1 This forwards DHCP requests to the remote server. By following these steps, your ENSP core switch will dynamically assign IP addresses, gateways, and DNS settings to clients across multiple VLANs, supporting both small and large network deployments.

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Article Content

S1720GFR, S2700, S5700, and S6720 V200R011C10 Web-based

The core switch functions as a DHCP server to allocate IP addresses to users in the campus. The DHCP snooping function is configured on access switches to prevent intranet users from connecting

Typical DHCP Configuration

Configure Switch_1 as the DHCP client to dynamically obtain the IP address from a DHCP server. Configure Switch_2 as the DHCP server to dynamically allocate network parameters including IP

DHCP configuration and static routing configuration in ensp

After the configuration is complete, go to each pc to select DHCP, and then perform ipconfig on the command line to view the ip, mask, and gateway configured by dhcp.

Guide to Dynamic IP Configuration on Ensp Routers

This article details the steps for configuring a router''s DHCP service within the eNSP simulator, including accessing the system view, configuring the Ethernet interface, enabling the

Huawei eNSP Command Reference Guide

The document is intended to provide a quick reference guide to common Huawei eNSP configuration commands.

eNSP Huawei Simulator Configure DHCP server experiment

Step 1: Configure ip address for port g0/0/0. Turn on the DHCP function and create (enter) a DHCP address pool (the name of the address pool used in the experiment is P1).

Network Activity: eNSP

Dynamic Host Configuration Protocol (DHCP) is a client/server protocol that automatically provides an Internet Protocol (IP) host with its IP address and other related configuration information such as the

Configuring DHCP On Huawei Router || Step-By-Step

This video, Configuring DHCP on Huawei Router, is our first lab demo to show how to configure DHCP on a Huawei Router.

6 Steps of DHCP Configuration On Huawei Routers ⋆ IPCisco

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In this lesson, we will focus on DHCP Configuration on Huawei eNSP. We will see how to configure DHCP on Huawei Routers in 6 steps.

Simulation HUAWEI I Configure DHCP | Simulation with ENSP

Configure the DHCP server on CORE to allocate IP addresses to user devices in department A (VLAN 10) and department B (VLAN 20) for the clients.

Huawei DHCP Configuration on eNSP

NetworkShip 23K subscribers 53 7.1K views 6 years ago #Huawei #NetworkEngineer #Configuration

Huawei Wireless Access Controller Configuration Guide (ENSP)

Huawei Wireless Access Controller Configuration Guide (ENSP) Packets transmitted on a WLAN include management packets (control packets) and data packets (service packets).

Network Activity: eNSP

With this configuration a malicious user will not have access to any resources on the network upon connecting a device to an available port, but the network is not yet protected against rogue dhcp

Windows DHCP Server leasing issue : r/sysadmin

- debug dhcp service - double check the switch is not dropping the packets due to dhcp snooping config I''ve not found eventlog monitoring on windows dhcp service to be effective for troubleshooting.

DHCP configuration experiment based on eNSP

DHCP (Dynamic Host Configuration Protocol) is a network protocol for local area networks. It means that the server controls a range of IP addresses, and the client can automatically obtain the IP address

Huawei ENSP use, and basic Huawei switch configuration

Huawei switches are still very large in China. Everyone knows that the principles of the network are the same. Different brands of network devices are only configured differently. Now I will teach you the

Solved: Configure dhcp on core switch

I have a cat 3850 as core switch. And 1 cat3850 and 1 cat 9300 as access switches. Any client that gets plugged into an access switch I need it to pull an ip via dhcp from the core switch. So,

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