

Chapter 24 DHCP-Server



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Chapter 24 DHCP - Server

24.1 DHCP-Server Overview

In the following cases, the DHCP server is usually used to complete the IP address allocation: Due to the large scale of the network, manual configuration requires a lot of work and it is difficult to centrally manage the entire network. Since the number of hosts in the network is larger than the number of IP addresses supported by the network, it is impossible to allocate a fixed IP address to each host. Moreover, there are also restrictions on the number of users accessing the network (for example, service providers of Internet access). Therefore, a large number of users must obtain their own IP address through the DHCP. Only a few hosts on the network need fixed IP addresses. Most hosts do not have a fixed IP address.

24.2 Configure DHCP-Server

24.2.1 DHCP-Server Configuration List.

Configuration Task	Description	Detailed Configuration
Configure IP pool	Required	24.2.2
Configure IP Pool Gateway	Required	24.2.3
Configure IP Pool Range	Optional	24.2.4
Enable/Disable IP Address	Optional	24.2.5
Configure IP Pool Lease	Optional	24.2.6
Configure the DHCP Server to Allocate the DNS Server Address	Optional	24.2.7
Configure the DHCP Server to Assign WINS server Addresses	Optional	24.2.8
Display IP Pool configuration	Optional	24.2.9
Configure dhcp-client bind	Optional	24.2.10

24.2.2 Configure IP Pool

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Delete IP Pool	undo ip pool <i>ippoolname</i>	

24.2.3 Configure IP Pool Gateway

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter ip pool configuration mode	ip pool <i>ippoolname</i>	
Configure gateway	gateway ip-address mask	

24.2.4 Configure IP Pool Range

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Configure IP pool range	section <i>section-id from-ip to-ip</i>	
Delete IP pool range	undo section <i>section-id</i>	

24.2.5 Enable/Disable IP Address

Operation	Command	Remarks
Enter global configuration mode	system-view	
enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Enable/disable IP address	ip { disable enable } <i>ip-address</i>	

24.2.6 Configure IP Pool Lease

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Configure IP Pool Lease	lease <i>day:hour:min</i>	

24.2.7 Configure the DNS Server Address of DHCP Server

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Configure the DNS server address	dns { primary-ip second-ip third-ip fourth-ip } ip-address	
Delete the DNS server address assigned for the DHCP client	undo dns { primary-ip second-ip third-ip fourth-ip }	
Configure the domain name	dns suffix <i>suffix-name</i>	
Delete the domain name	undo dns suffix	

24.2.8 Configure the DHCP Server to Assign WINS Server Addresses

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enter IP pool configuration mode	ip pool <i>ippoolname</i>	
Configure the WINS server address	wins { primary-ip second-ip } <i>ip-address</i>	
Delete the WINS server address	undo wins { primary-ip second-ip }	

24.2.9 Display IP Pool Configuration

Operation	Command	Remarks
Display IP Pool configuration	display ip pool [<i>ippool-name</i> [<i>section-num</i>]]	

24.2.10 Configure Dhcp-client Bind

Some clients (FTP servers, Web servers, etc.) need fixed IP addresses, which can be implemented by binding the MAC address of the client to the IP address. When a client with this MAC address requests an IP address, the DHCP server searches for the corresponding IP address based on the MAC address of the client and assigns that IP address to the client.

Operation	Command	Remarks
Enter global configuration mode	system-view	
Enable dhcp-client bind	dhcp-client bind	
Disable dhcp-client bind	undo dhcp-client bind	
Display dhcp-client bind	display dhcp-client bind	
Add dhcp-client	dhcp-client <i>mac-address</i> <i>ip-address vlan-id username</i>	
Delete dhcp-client	undo dhcp-client { <i>mac-address</i> <i>vlan-id</i> all }	
Display dhcp-client	display dhcp-client [ip	