

### To configure DHCP server

Command	Purpose
Device(config)# service dhcp	Enables the DHCP server and relay agent on your switch.
Device(config)# ip dhcp excluded-address low-address [high-address]	Specifies IP addresses that the DHCP server should not assign to DHCP clients.
Device(config)# ip dhcp pool 1	Creates a name for the DHCP server address pool and enters DHCP pool configuration mode.
Device(dhcp-config)# network 172.20.0.0 /24	Specifies the subnet network number and mask of the DHCP address pool.
Device(dhcp-config)# dns server 8.8.4.4 8.8.8.8	Specifies the IP address of a DNS server that is available to a DHCP client.
Device(dhcp-config)# default-router 172.16.20.0.1	Specifies the IP address of the default device for a DHCP client.

### To display DHCP server information

Command	Purpose
Device> show ip dhcp binding [address]	Displays a list of all bindings created on a specific DHCP server.
Device> show ip dhcp conflict [address]	Displays a list of all address conflicts recorded by a specific DHCP server.
Device> show ip dhcp server statistics	Displays count information about server statistics and messages sent and received.

### To clear DHCP server variables:

Command	Purpose
Device# clear ip dhcp binding address   *	Deletes an automatic address binding from the DHCP database. Specifying address clears the automatic binding for a specific (client) IP address whereas specifying asterisk (*) clears all automatic bindings.
Device# clear ip dhcp conflict address   *	Clears an address conflict from the DHCP database. Specifying address clears the conflict for a specific IP address whereas specifying an asterisk (*) clears conflicts for all addresses.
Device# clear ip dhcp server statistics	Resets all DHCP server counters to 0.

### To enable DHCP server debugging

Command	Purpose
Device# debug ip dhcp server {events   packets}	Enables debugging on the DHCP server.



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