

<u>CDP</u>	
no cdp enable	interface config mode Prevents the switch from sending CDP packets from specific interfaces.
no cdp run	global config mode Disables CDP globally
<u>Port Security</u>	
switchport port-security	interface config mode Enables port-security Note: Port security limits the number of MAC addresses allowed on a port.
switchport port-security maximum #	interface config mode Sets the maximum number of allowed MAC addresses on the port. Example: switchport port-security maximum 3 (allows 3 MAC addresses) interface config mode
switchport port-security mac-address A.B.C	Statically sets an allowed MAC address on the port. interface config mode The switch automatically adds a MAC address to the secured port when
switchport port-security mac-address sticky	a host is connected to the port. The sticky MAC address is added to the running-config.
switchport port-security violation {shutdown restrict protect}	interface config mode Sets the violation mode and the action to be taken when a security violation is detected. <ul style="list-style-type: none">• Shutdown: (Default) Puts the interface into the error-disabled state immediately and logs the violation.• Restrict: Drops packets from hosts that violate port-security and logs the violation. Hosts not in violation are still allowed.• Protect: Drops packets from hosts that violate port-security. Hosts not in violation are still allowed. Violations are not logged.
<u>DHCP Snooping</u>	
ip dhcp snooping	global config mode Enables dhcp snooping. DHCP snooping mitigates rogue DHCP servers.

ip dhcp snooping vlan #	global config mode Enables dhcp snooping for the VLAN.
ip dhcp snooping trust	interface config mode Sets the trusted port. Must be on the uplink port that faces the DHCP server. Trusted ports allow DHCP messages from DHCP servers. Example: DHCPOFFER and DHCPACK messages. Untrusted ports drop DHCP messages from servers.
ip dhcp snooping limit rate #	interface config mode Sets the maximum number of DHCODISCOVER packets allowed per second. Mitigates DHCP starvation attacks.
no ip dhcp snooping information option	global config mode Prevents the DHCP relay agent from adding Option 82 information to the DHCPDISCOVER packet.

DHCP Relay

ip helper-address <address>	Interface config mode <ul style="list-style-type: none"> Configures DHCP relay. (The device becomes a DHCP relay agent.) The IP address is the DHCP server's address. The command goes on the router interface that is the DHCP client's default gateway. The ip helper-address is NOT required if the DHCP server is in the same broadcast domain as the client. <p>Example: ip helper-address 201.1.11.1 (DHCP server's IP address)</p>
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Verification and Troubleshooting

show port-security	Privileged Exec mode Verifies port-security settings in a table. Includes interfaces, maximum addresses, current number of addresses, violation count, and violation action.
show port-security interface <interface>	Privileged Exec mode Show the port security settings for a specific interface
show ip dhcp snooping	Verifies DHCP Snooping settings Privileged Exec mode
show ip dhcp snooping binding	Shows DHCP snooping IP to MAC bindings