

# Chapter-41

## Static Route Configuration



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## Chapter 41 Static Route Configuration

### 41.1 Static Route Overview

The Switch is an ASIC-based Gigabit intelligent Switch, in which a layer-3 forwarding and routing table is maintained to specify the next hops of routes and relevant information. These routes may be learned dynamically through routing protocols or added manually. A static route is a route to an address or a network segment which is configured manually.

### 41.2 Configure Static Route

#### 41.2.1 Static Route Configuration List

Configuration Task	Description	Detailed Configuration
Adds a static routing entry	Required	41.2.2
Deletes a static routing entry	Required	41.2.2
Displays a specified routing entry	Optional	41.2.3
Displays an ECMP routing entry	Optional	41.2.3

#### 41.2.2 Adding/Deleting a Static Route

Operation	Command	Remarks
Enters the global configuration mode.	<b>ip route</b> dst-ip mask gate-ip	
Enters the global configuration mode.	<b>undo ip route dst-ip</b> mask [ gate-ip ] <b>undo ip route static all</b>	

#### Notes:

*gate-ip*: next-hop IP address of a static route, in dotted decimal notation; *dst-ip*: destination address of a static route to be added, in dotted decimal notation;

*mask*: mask of the destination address, in dotted decimal notation.

### 41.2.3 Display Routing Entries

This command displays the information relevant to the specified routing entry, such as the next-hop address and route type. You can choose to view the routes to a specific destination address, all static routes, and all routes. By default, all routes will be displayed.

Operation	Command	Remarks
Enters the all commands mode.	<b>display ip route</b> [ <i>ip-address</i> [ <i>mask</i> ]   static   rip   ospf ]	
Enters the all commands mode.	<b>display ip route ecmp</b> [ <i>ip-address</i> [ <i>mask</i> ]   static   rip   ospf ]	

#### Parameter description:

*ip-address*: destination address, in dotted decimal notation; *mask*: accompany an IP address to specify a destination network segment, in dotted decimal notation;

*static*: to display all static routing entries; *rip*: to display all RIP routing entries;

*ospf*: to display all OSPF routing entries