

1 DoS Protection Commands

Command	Function
ip deny invalid-l4port	Enable the function of denying invalid L4 ports.
ip deny invalid-tcp	Enable the function of denying invalid TCP packets.
ip deny land	Enable the function of denying land attacks.
show ip deny	Display the status of an anti-denial-of-service (DoS) attack function.

1.1 ip deny invalid-l4port

Function

Run the **ip deny invalid-l4port** command to enable the function of denying invalid L4 ports.

Run the **no** form of this command to disable this feature.

The function of denying invalid L4 ports is disabled by default.

Syntax

ip deny invalid-l4port

no ip deny invalid-l4port

Parameter Description

N/A

Command Modes

Global configuration mode

Default Level

14

Usage Guidelines

N/A

Examples

The following example enables the function of denying invalid L4 ports.

```
Hostname> enable
Hostname# configure terminal
Hostname(config)# ip deny invalid-l4port
```

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A

1.2 ip deny invalid-tcp

Function

Run the **ip deny invalid-tcp** command to enable the function of denying invalid TCP packets.

Run the **no** form of this command to disable this feature.

The function of denying invalid TCP packets is disabled by default.

Syntax

ip deny invalid-tcp

no ip deny invalid-tcp

Parameter Description

N/A

Command Modes

Global configuration mode

Default Level

14

Usage Guidelines

N/A

Examples

The following example enables the function of denying invalid TCP packets.

```
Hostname> enable
Hostname# configure terminal
Hostname(config)# ip deny invalid-tcp
```

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A

1.3 ip deny land

Function

Run the **ip deny land** command to enable the function of denying land attacks.

Run the **no** form of this command to disable this feature.

The function of denying land attacks is disabled by default.

Syntax

ip deny land

no ip deny land

Parameter Description

N/A

Command Modes

Global configuration mode

Default Level

14

Usage Guidelines

N/A

Examples

The following example enables the function of denying land attacks.

```
Hostname> enable
Hostname# configure terminal
Hostname(config)# ip deny land
```

Notifications

N/A

Common Errors

N/A

Platform Description

N/A

Related Commands

N/A

1.4 show ip deny

Function

Run the **show ip deny** command to display the status of an anti-denial-of-service (DoS) attack function.

Syntax

```
show ip deny [ invalid-l4port | invalid-tcp | land ]
```

Parameter Description

invalid-l4port: Displays the status of the function of denying invalid L4 ports.

invalid-tcp: Displays the status of the function of denying invalid TCP packets.

land: Displays the status of the function of denying land attacks.

Command Modes

All modes except the user EXEC mode

Default Level

14

Usage Guidelines

N/A

Examples

The following example displays the statuses of all anti-DoS attack functions.

```

Hostname> enable
Hostname# show ip deny
DoS Protection Mode                               State
-----
Protect against Land attack                       On
Protect against invalid L4port attack             Off
Protect against invalid TCP attack               Off
Protect against null-scan attack                  Off

```

Table 1-1 Output Fields of the show ip deny Command

Field	Description
Protect against Land attack	Status of the function of denying land attacks: <ul style="list-style-type: none"> ● On: The function is enabled. ● Off: The function is disabled.
Protect against invalid L4port attack	Status of the function of denying invalid L4 ports: <ul style="list-style-type: none"> ● On: The function is enabled. ● Off: The function is disabled.
Protect against invalid TCP attack	Status of the function of denying invalid TCP packets: <ul style="list-style-type: none"> ● On: The function is enabled. ● Off: The function is disabled.
Protect against null-scan attack	Status of the function of denying null scan attacks: <ul style="list-style-type: none"> ● On: The function is enabled. ● Off: The function is disabled.

Notifications

N/A

Platform Description

N/A

Related Commands

- [ip deny invalid-l4port](#)

- [ip deny invalid-tcp](#)
- [ip deny land](#)