

DoS-Attack Prevention Configuration Commands

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CHAPTER 1 DOS ATTACK PREVENTION CONFIGURATION COMMANDS

1.1. DoS-Attack Prevention Configuration Commands

DoS attack prevention configuration commands are shown below:

- dos enable
- show dos

1.1.1. dos enable

Syntax

dos enable {all | tcpflags | tcpsmurf | icmpsmurf | ipsmurf}

no dos enable {all | tcpflags | tcpsmurf | icmpsmurf | ipsmurf}

Parameter

Parameter	Description
all	Enables to prevent all kinds of DoS attacks.
tcpflags	Starts to check the TCP packets with illegal flags.
tcpsmurf	Starts to check the TCP packets with tcmsmurf.
icmpsmurf	Starts to check the icmp packets with icmpsmurf.
ipsmurf	Starts to check the ipsmurf packets with ipsmurd

Default value

DoS attack prevention is disabled by default.

Usage guidelines

DoS attack prevention is configured in global mode.

The DoS tcpflags sub-function can drop the following 4 kinds of TCP packets: 1. TCP SYN flag=1 & source port<1024; 2.TCP control flags = 0 & sequence = 0; 3.TCP FIN URG PSH =1 & sequence = 0; 4.TCP FIN SYN =1.

The DoS tcpsmurf sub-function can drop TCP packets of destination IP whose last 8 bits are 255.

The DoS icmpsmurf sub-function can drop TCP packets of source and destination IP whose last 8 bits are 255.

The DoS ipsmurf sub-function can drop TCP packets of destination IP whose last 8 bits are 255.

Example

The following example shows how to set the global DoS attack prevention function to prevent TCP packets of destination IP whose last 8 bits are 255.

```
Switch_config#dos enable tcpsmurf
```

1.1.2. show dos

Syntax

show dos

It is used to show all DoS attack prevention functions that users have set.

Parameter

N/A

Default value

N/A

Usage guidelines

EXEC mode

Example

The following example shows how to display all DoS attack prevention functions.

```
Switch_config#dos enable all
```

```
Switch_config#show dos
```

```
dos enable tcpflags
```

```
dos enable tcpsmurf
```

```
dos enable icmpsmurf
```

```
dos enable ipsmurf
```

```
Switch_config#
```

The following example shows how to set **dos enable icmp** to display the sub-function that users have set.

```
Switch_config#dos enable tcpflags
```

```
Switch_config#show dos
```

```
dos enable tcpflags
```