

Port Security SNR

Port Security MAC- . MAC- . Port Security CAM , Ethernet- Source MAC-, Unknown Unicast . - MAC- MAC- CAM .

Ethernet-, Source MAC- MAC- . , . Port Security MAC- CAM- :

- configured - MAC- ;
- sticky - , , , . ;
- dynamic - MAC- ().

 !

Sticky Dynamic - . , Trunk Hybrid VLAN ID.

. MAC- (1) :

- protect - MAC-, Syslog;
- restrict - MAC-, , SNMP- Syslog;
- shutdown - , SNMP- Syslog ().

 !

maximum MAC- Dynamic Sticky.

e1/0/1 , MAC- , . - restrict:

```
(config)#int e1/0/1
(config-if-ethernet1/0/1)#switchport port-security
(config-if-ethernet1/0/1)#switchport port-security maximum 2
(config-if-ethernet1/0/1)#switchport port-security violation protect
(config-if-ethernet1/0/1)#switchport port-security mac-address f0-de-f1-19-d5-eb
(config-if-ethernet1/0/1)#exit
```

e1/0/2 MAC- sticky:

```
(config)#int e1/0/2
(config-if-ethernet1/0/2)#switchport port-security
(config-if-ethernet1/0/2)#switchport port-security mac-address sticky
(config-if-ethernet1/0/2)#end
```

MAC-:

Vlan	Mac Address	Type	Creator	Ports
1	f0-de-f1-19-d5-eb	SECUREC	PSecure	Ethernet1/0/1
1	f8-f0-82-75-cd-41	STATIC	System	CPU

- 'SECUREC'. :
- SECUREC - ;
 - SECURES - Sticky;
 - SECURED - .

e1/0/1 . :

```
%Jan 01 02:30:30:637 2006 Port-security has reached the threshold on Interface Ethernet1/0/1 and violation mode
is restrict, the current unknown source mac addr is d8-c4-97-c0-c7-52, vlan id 1!
```

MAC- e1/0/1. Port Security:

```
#sh port-security address
```

```
Secure Mac Address Table
```

Vlan	Mac Address	Type	Ports
1	f0-de-f1-19-d5-eb	SECUREC	Ethernet1/0/1
1	38-63-bb-71-d3-00	SECURED	Ethernet1/0/1
1	b8-27-eb-ea-05-e1	SECURED	Ethernet1/0/1

Total Addresses:3

```
, .  
e1/0/2 :
```

```
%Jan 01 02:34:27:024 2006 Port-security has reached the threshold on Interface Ethernet1/0/2, unkown source mac  
addr b8-27-eb-ea-05-e1, vlan id 1 and violation mode is shutdown, so shutdown it!  
%Jan 01 02:34:27:050 2006 %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet1/0/2, changed state to DOWN  
%Jan 01 02:34:27:055 2006 %LINK-5-CHANGED: Interface Ethernet1/0/2, changed state to administratively DOWN  
%Jan 01 02:34:28:059 2006 %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1,changed state to DOWN
```

```
., 'shutdown' , - MAC-. Port Security :
```

```
#sh port-security address
```

```
Secure Mac Address Table
```

Vlan	Mac Address	Type	Ports
1	f0-de-f1-19-d5-eb	SECUREC	Ethernet1/0/1
1	38-63-bb-71-d3-00	SECURED	Ethernet1/0/1
1	b8-27-eb-ea-05-e1	SECURED	Ethernet1/0/1
1	38-63-bb-19-de-71		

SECURES Ethernet1/0/2
Total Addresses:4

```
1/0/2 :
```

```
#sh run int e1/0/2  
!  
Interface Ethernet1/0/2  
  switchport port-security  
  switchport port-security mac-address sticky  
  switchport port-security mac-address sticky 38-63-bb-71-d3-00  
!
```

```
, 'sticky' running-config. 'violation':
```

```
#sh port-security int e1/0/2
```

```
Violation mode : Shutdown  
Maximum MAC Addresses : 1  
Configured MAC Addresses : 0  
Security Violation count : 1
```

```
Port Security :
```

```
clear port-security all
```

```
:  
  
• all - ;  
• configured - ;  
• dynamic - ;
```

- sticky - sticky.