802.1x

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How to enable 802.1x port-based authentication on the switch?

There are several ways to configure 802.1x port-based authentication on a switch. This task shows you one of the way to enable 802.1x.

Step 1 aaa new-model

This command enables AAA.

Step 2 aaa authentication dot1x default group radius

This command creates a series of authentication methods to determine user privilege. If the user has the necessary previlige, the device can communicate with the AAA server.

Step 3 dot1x system-auth-control

This command globally enables 802.1X port-based authentication.

Example:

```
Switch# configure terminal
Switch(config)# aaa new-model
Switch(config)# aaa authentication dot1x default group radius
Switch(config)# dot1x system-auth-control
Switch(config)# end
```

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How to enable 802.1x port-based authentication on the switch interface?

How to enable 802.1x port-based authentication on the switch interface?

This task shows you how to enable 802.1x port-based authentication on the switch interface.

Step 1   authentication port-control auto

This command enables port authentication.

Step 2   dot1x pae authenticator

This command enables 802.1x port authentication.

Example:

```
Switch# configure terminal
Switch(config)# interface <interface-id>
Switch(config-if)# authentication port-control auto
Switch(config-if)# dot1x pae authenticator
Switch(config-if)# end
```

How to configure the switch for RADIUS-server communication?

This task shows you how to configure a switch for RADIUS-server communication.

Step 1   radius server RADIUS

This command configures the RADIUS server.

Step 2   address ipv4 *radius-ip* auth-port 1645 acct-port 1646

This command configures the server IP address and port.

Step 3   key*var*

This command configures the RADIUS key.

Example:

```
Switch# configure terminal
Switch(config)# radius server RADIUS
Switch(config)# address ipv4 <radius-ip> auth-port 1645 acct-port 1646
Switch(config)# key <key>
Switch(config)# end
```

How to view the current 802.1x status for a switch interface?

The following command displays the details of a switch interface.

show dot1x interface *interface-id*

```
Switch# show dot1x interface GigabitEthernet 1/0/1 details
```

```
Dot1x Info for GigabitEthernet1/0/1
-----------------------------------------
PAE                     = AUTHENTICATOR
QuietPeriod             = 60
ServerTimeout           = 0
SuppTimeout             = 30
ReAuthMax               = 2
MaxReq                  = 2
TxPeriod                = 30

Dot1x Authenticator Client List
-------------------------------

EAP Method              = PEAP
Supplicant              = f076.1cc7.8386
Session ID              = 000000000000000BA3185562
    Auth SM State       = AUTHENTICATED
    Auth BEND SM State  = IDLE
```

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