



802.1x

The following section is used to capture wired user authentication information. This information is used by Cisco Spaces apps such as Right Now, where dot1x has been configured.

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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.

Procedure

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 privilege, 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
```

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.

Procedure

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.

Procedure

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 keyvar
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.

Procedure

```
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
```

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