# Configure 802.1x remote authentication
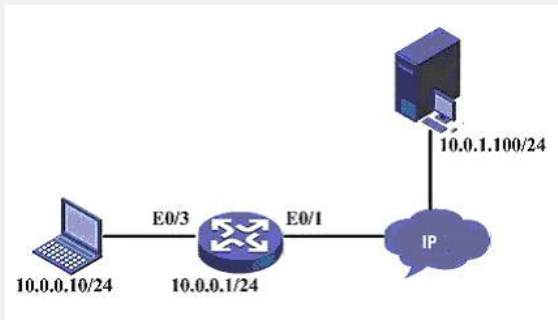
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**Configure 802.1x remote authentication**

**Keywords：MSR;802.1x;radius**

**1. Requirements**：

RTA connects to radius server through IP network, configure corresponding router pr otocol to make sure that RTA can access radius server. Router connects to client thr ough Ethernet0/3 and start 802.1x authentication in Ethernet0/3.

Device：MSR series router

**2. Network diagram：**



**3. Configuration steps：**

Device and version：MSR20-21 series, version 5.20 and Beta 1106

| RTA key configuration scripts |
|---|
| ```
#
//start 802.1x protocol in global configuration mode
dot1x
#
vlan 1
#
//set virtual interface address
interface Vlan-interface1
 ip address 10.0.0.1 255.255.255.0
#
//connect IP network interface address
interface Ethernet0/1
 port link-mode route
 ip address 10.0.1.1 255.255.255.0
#
//start 802.1x protocol in port method.
interface ethernet 0/3
 port link-mode bridge
dot1x port-method  portbased
 dot1x
#
//configure Radius authentication H3C
radius scheme h3c
 primary authentication 10.0.1.100
 primary accounting 10.0.1.100
 server-type standard
 key authentication h3c
 key accounting h3c
 user-name-format without-domain
#
//configure Radius authentication H3C
domain h3c.com
domain default enable h3c.com
#
//set h3c as the domain's radius scheme
domain h3c.com
 authentication default radius-scheme h3c
 authorization default radius-scheme h3c
 accounting default radius-scheme h3c
#
``` |

**4. Tips**：

1  In radius server, please configure 1812 as authentication port and 1813 as account ing port.

2  In radius server, please add user "**user**" and password "**pass**", and configure NAS

encryption key as "**h3c**"

3 Configure router protocol to make sure router can access Radius server.

4 User authentication method is based on port method. dot1x port-method
 portbased