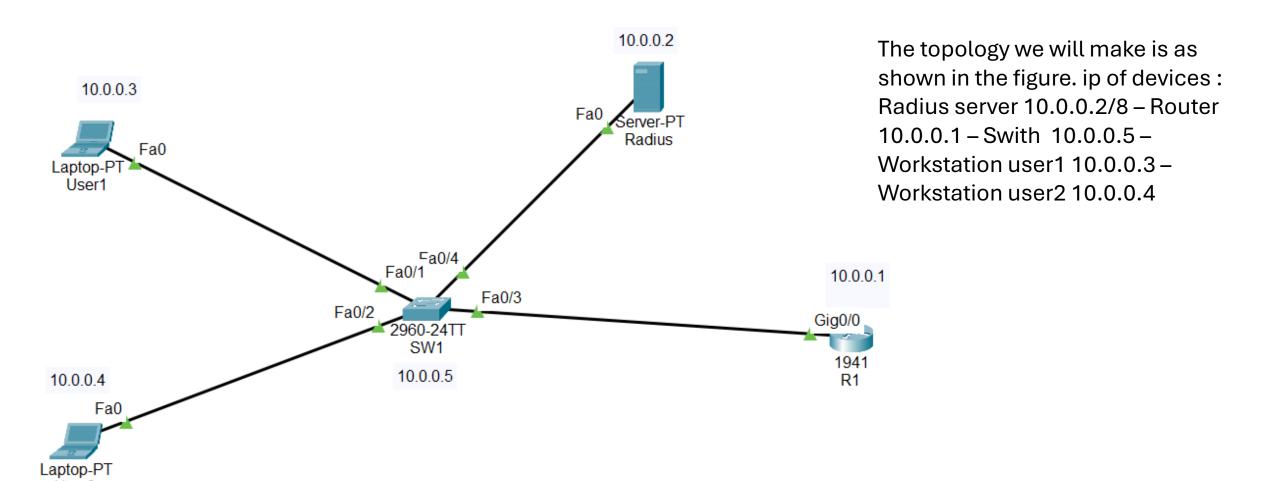


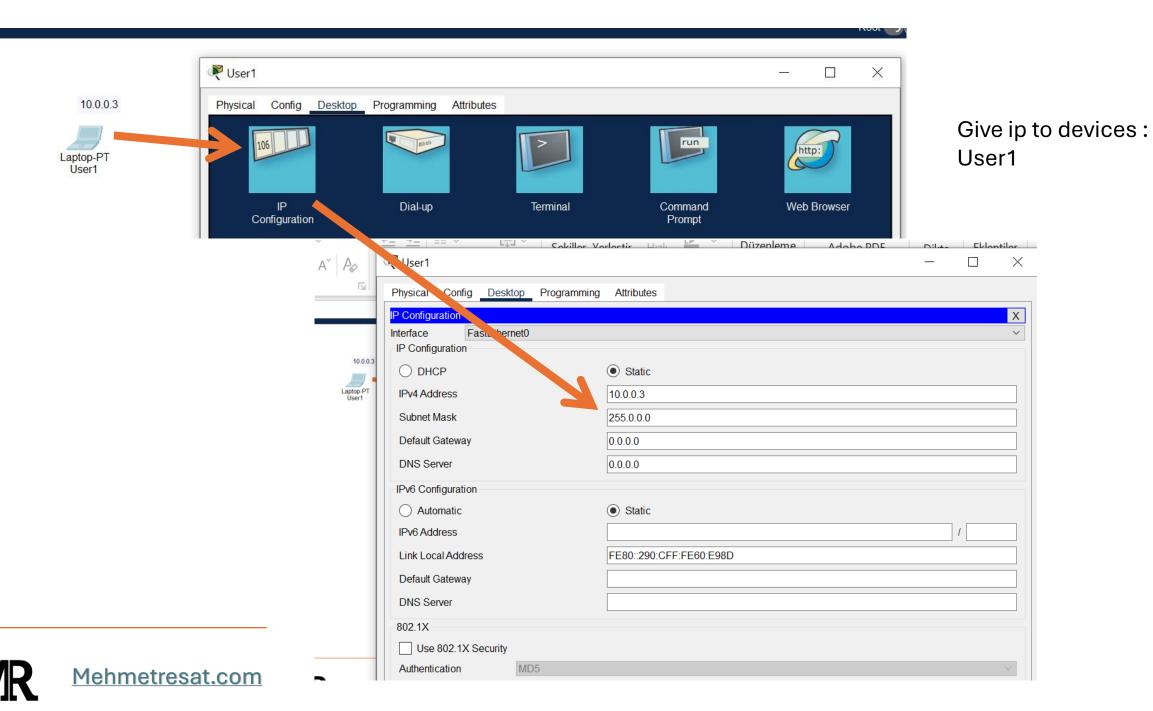
Mehmet Resat Abdusselam

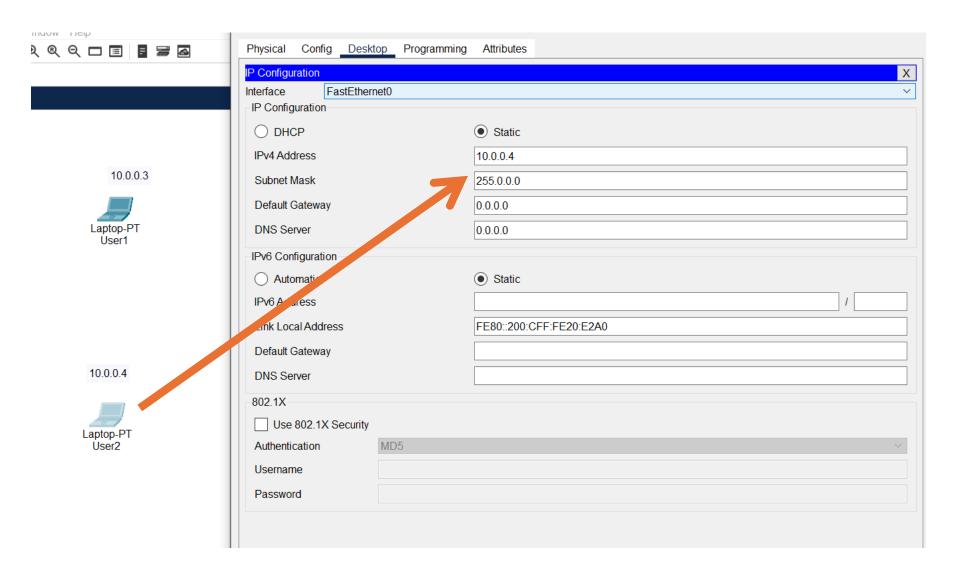
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# RADIUS - AAA Configuration On Cisco Devices

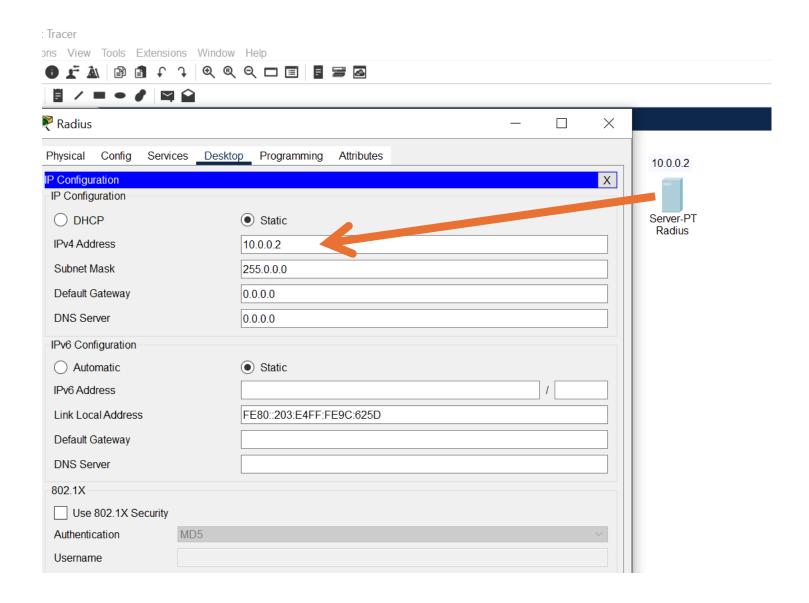


Úser2



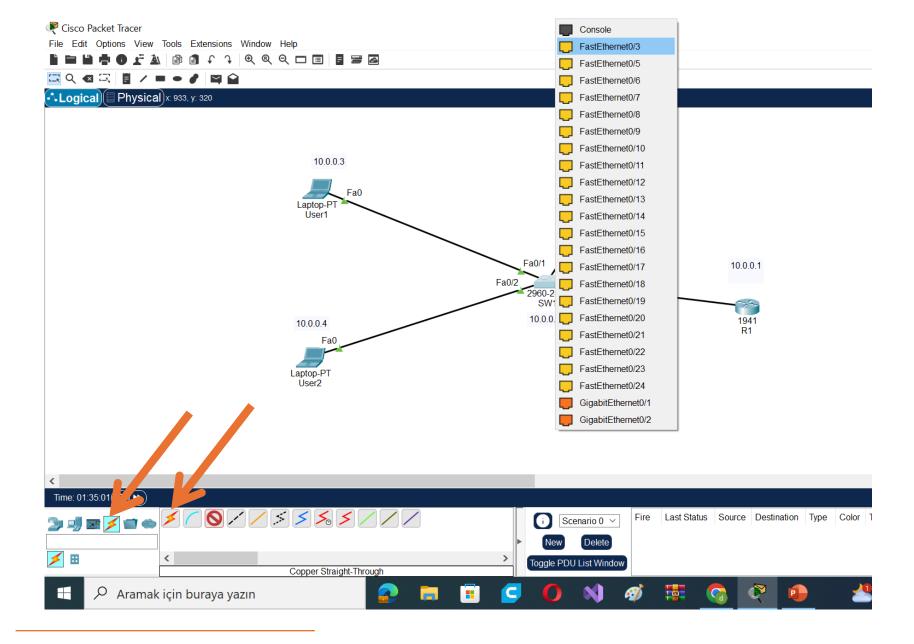


Give ip to devices : User2

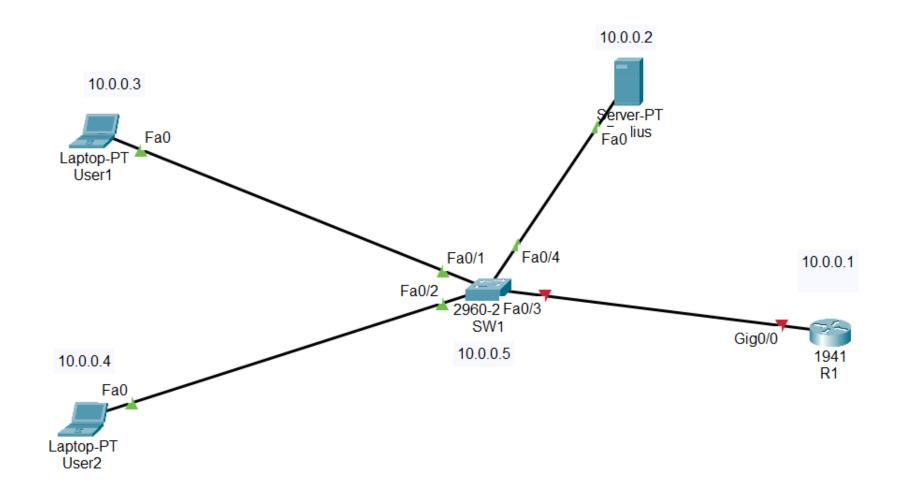


## Give ip to devices : Radius Server

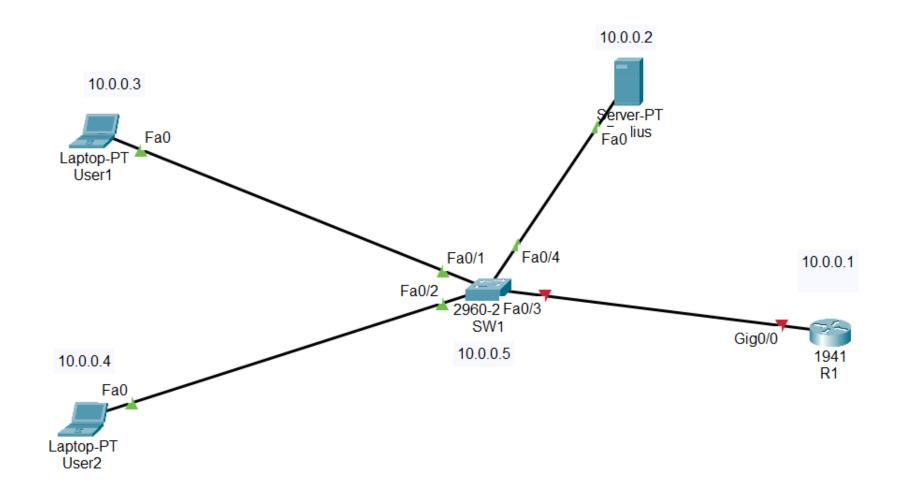




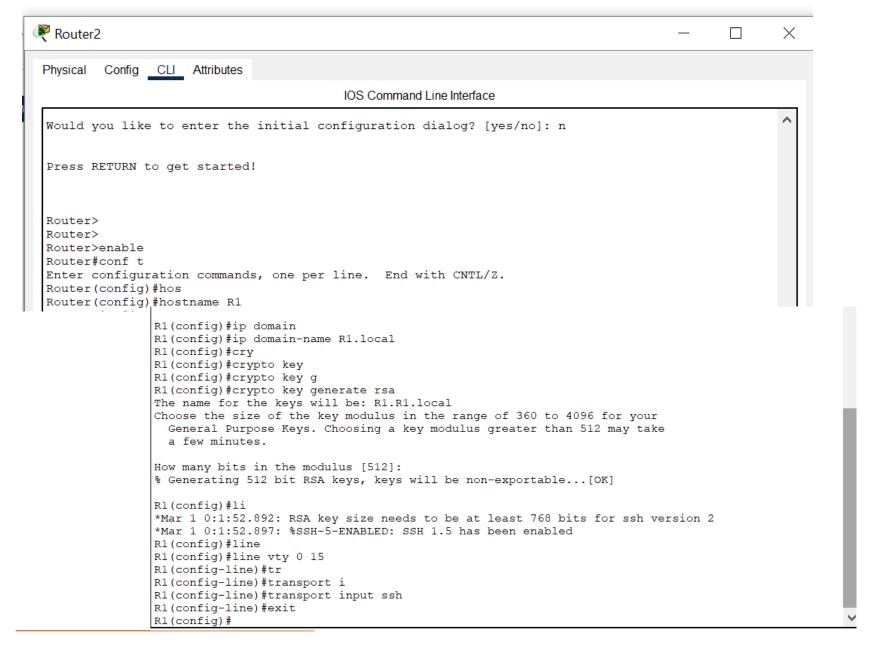
We connect the devices



final state of topology



final state of topology





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## Enable SSH in router

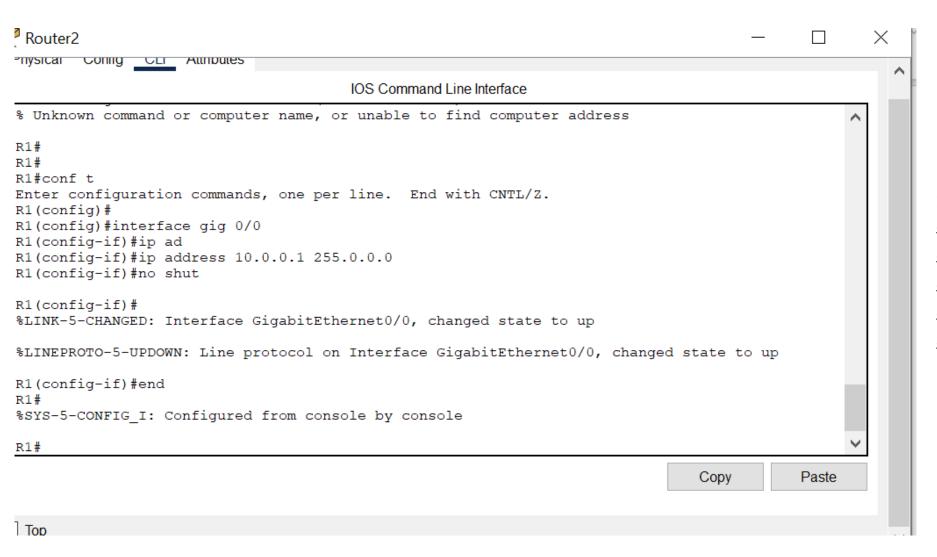
```
>configure terminal
# hostname R1
# ip domain-name r1.local
# crypto key generate rsa
# line vty 0 15
# transport input ssh
# exit
```

```
Switch>
 Switch>
 Switch>
 Switch>enable
 Switch#conf t
 Enter configuration commands, one per line. End with CNTL/Z.
 Switch (config) #hos
 Switch(config) #hostname SW1
 SW1(config) #ip domain-name sw1.local
 SW1(config)#crypto key generate rsa
 The name for the keys will be: SW1.sw1.local
 Choose the size of the key modulus in the range of 360 to 4096 for your
   General Purpose Keys. Choosing a key modulus greater than 512 may take
   a few minutes.
 How many bits in the modulus [512]:
 % Generating 512 bit RSA keys, keys will be non-exportable...[OK]
 SW1 (config) #
 *Mar 1 0:24:2.273: RSA key size needs to be at least 768 bits for ssh version 2
 *Mar 1 0:24:2.273: %SSH-5-ENABLED: SSH 1.5 has been enabled
 SW1(config)#line vtv 0 15
 SW1(config-line) #transport input ssh
 SW1 (config-line) #ext
 % Invalid input detected at '^' marker.
 SW1(config-line)#exit
 SW1(config)#
                                                                                    Copy
                                                                                                Paste
  Top
in buraya yazın
```

## Enable SSH in Switch

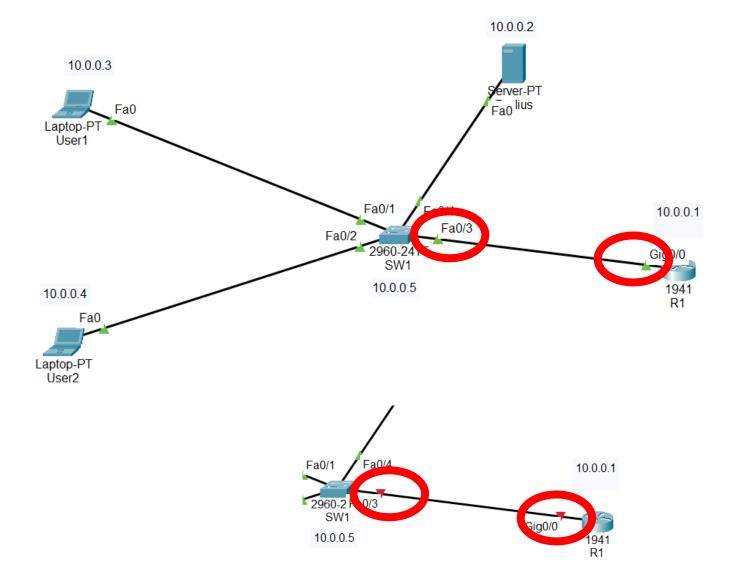
>configure terminal
# hostname SW1
# ip domain-name sw1.local
# crypto key generate rsa
# line vty 0 15
# transport input ssh
# exit



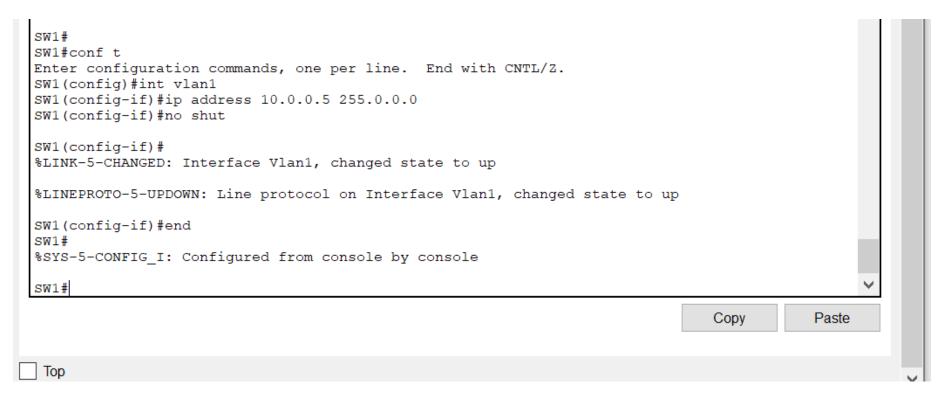


Active Router port gig 0/0

>enable
#conf t
#interface gig 0/0
#ip address 10.0.0.1 255.0.0.0
#no shut
#end

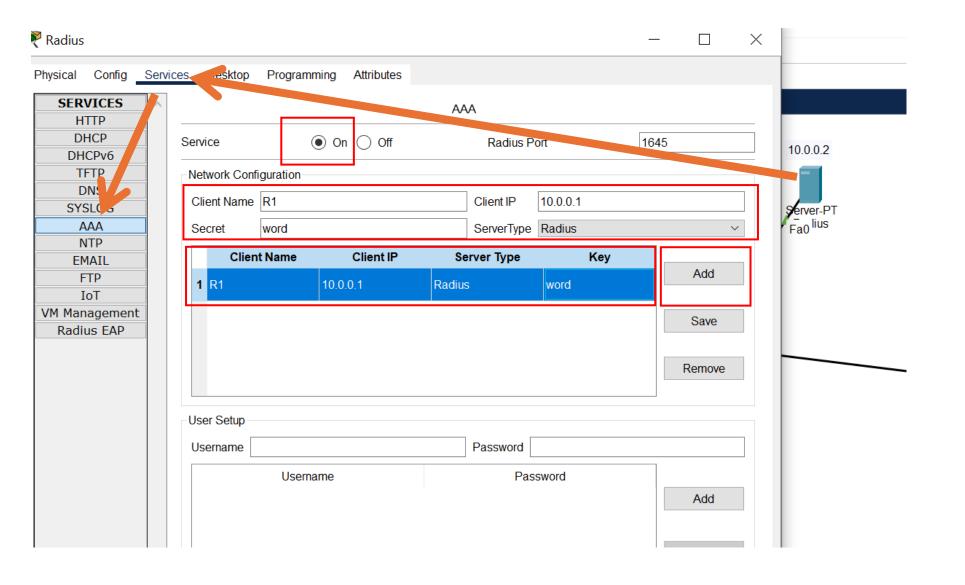


Connection turn to green and be active

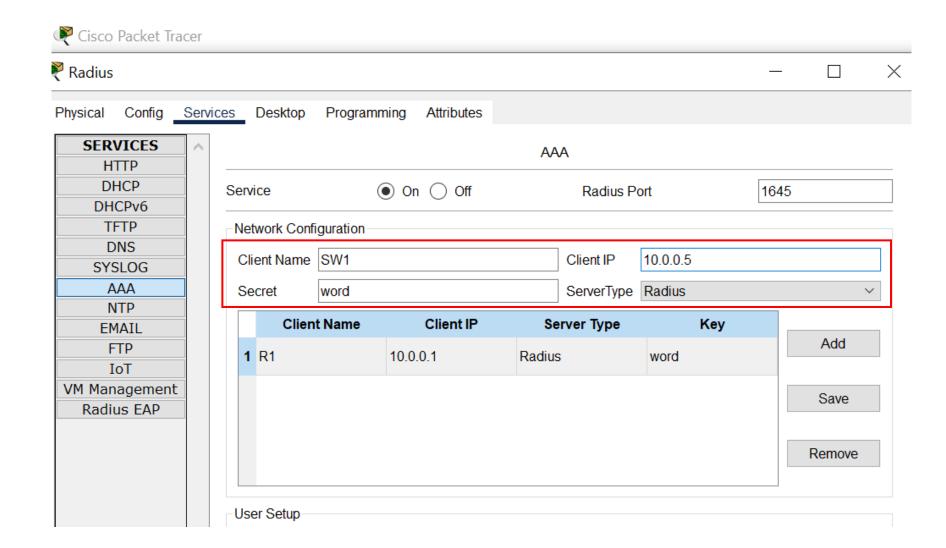


Active Switch vlan port

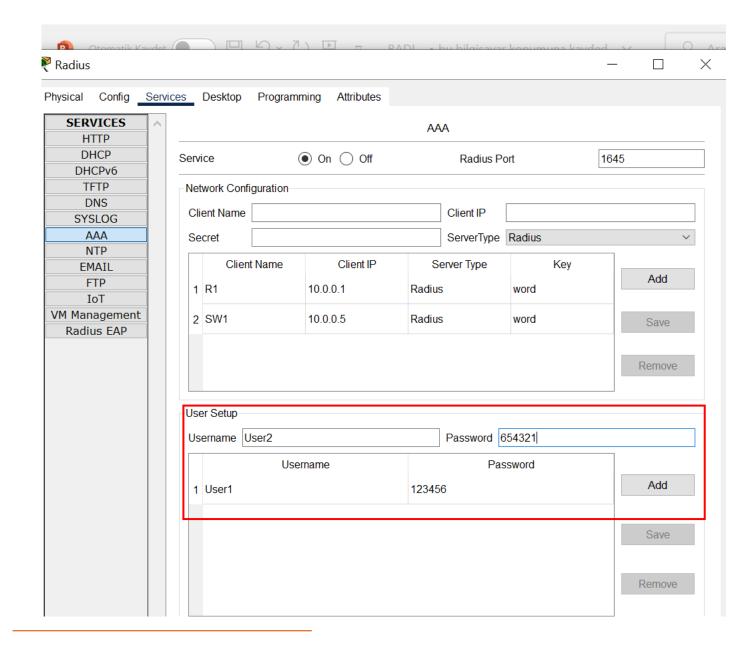
>enable
#conf t
#int vlan1
#ip address 10.0.0.5 255.0.0.0
#no shut
#end



Add R1 as a client to Radius Server



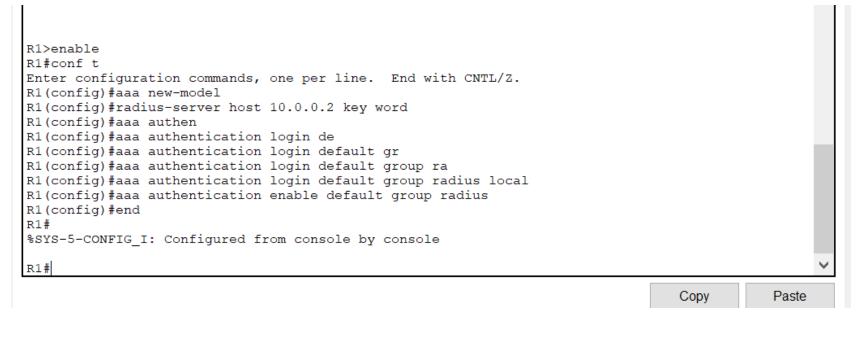
Add SW1 as a client to Radius Server





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Add User1 and User2 with password to connecting with ssh

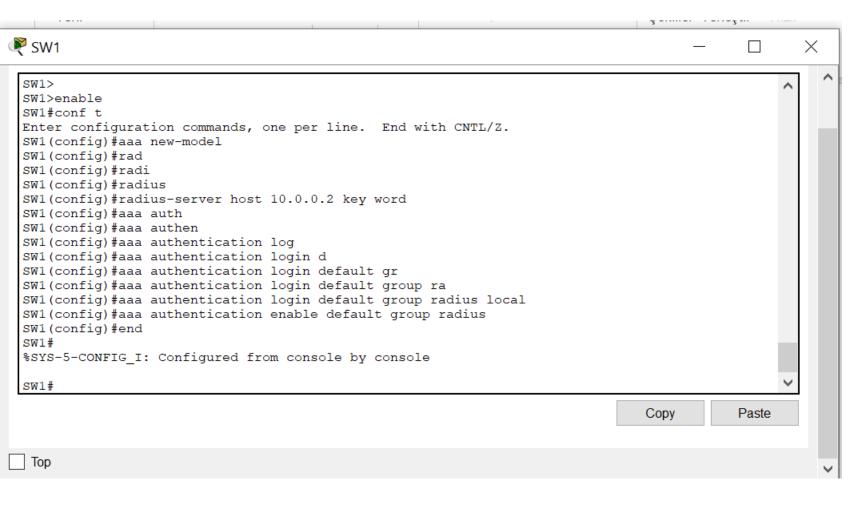


Active Radius
Server in the Router

>configure terminal
# aaa new-model
# radius-server host 10.0.0.2 key
word
# aaa authentication login
default group radius local
# aaa authentication enable
default group radius

- group radius: First try RADIUS for authentication
- •local: If RADIUS is unavailable, use the router's local database



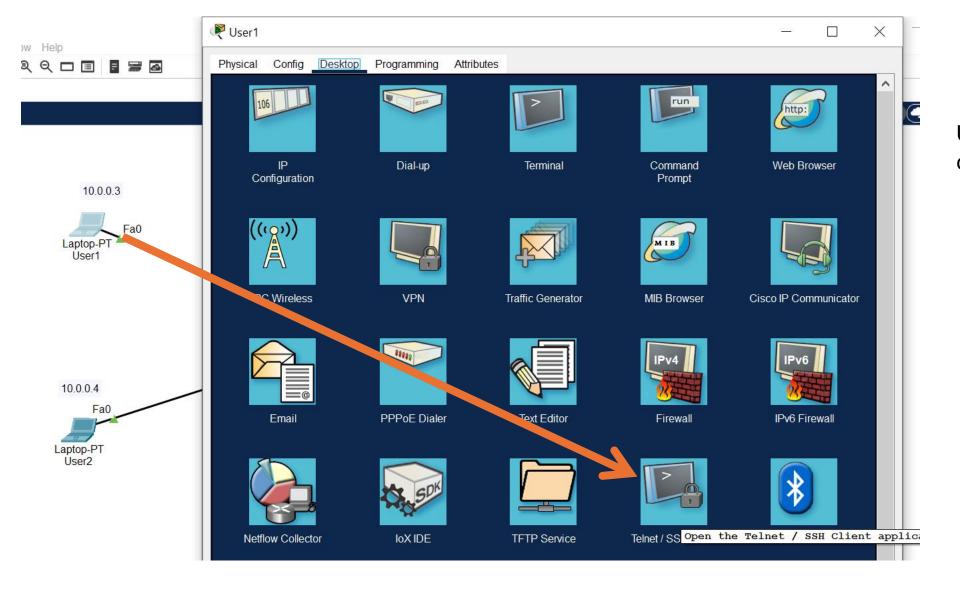


Active Radius
Server in the Switch

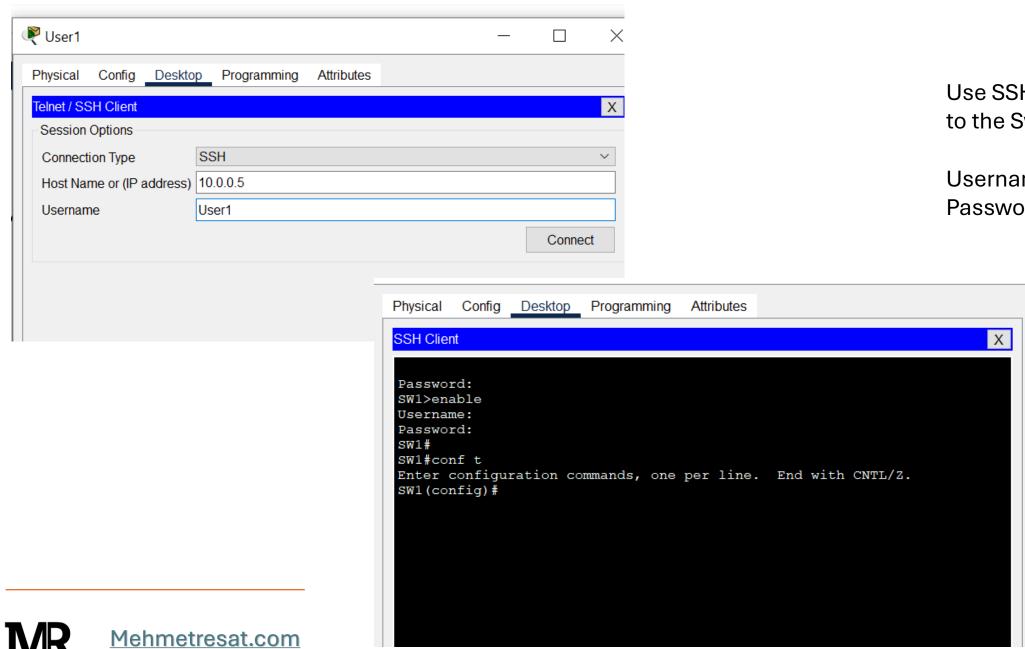
>configure terminal
# aaa new-model
# radius-server host 10.0.0.2 key
word
# aaa authentication login
default group radius local
# aaa authentication enable
default group radius

- •group radius: First try RADIUS for authentication
- •local: If RADIUS is unavailable, use the router's local database





Use SSH to connection



Use SSH to connect

to the Switch

Username: User1

Password: 123456

