How to configure 802.1x guest vlan in Windows Server 2008

[Topology]:

Client(192.168.1.90)-------P11 **DES-3200-18** P15----**Radius_Server**(192.168.1.100)

Client is used Windows Vista for testing.

Radius Server is used Windows Server 2008.

[Configuration]:

[DES-3200-18]:

config vlan default delete 1-18

create vlan v10 tag 10

config vlan v10 add untagged 10-16

create vlan v20 tag 20

config vlan v20 add untagged 1-10

config ipif System ipaddress 192.168.1.1/24 vlan v10

enable 802.1x

create 802.1x guest_vlan v10

config 802.1x guest_vlan ports 10-16 state enable

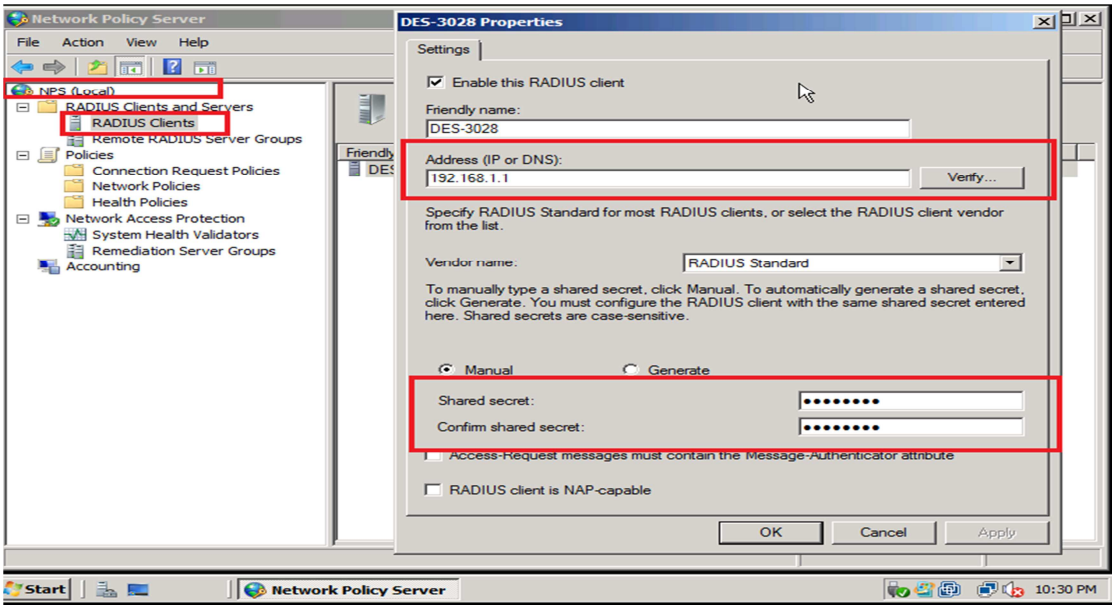
config 802.1x capability ports 10-14 authenticator

config radius add 1 192.168.1.100 key 123456 default

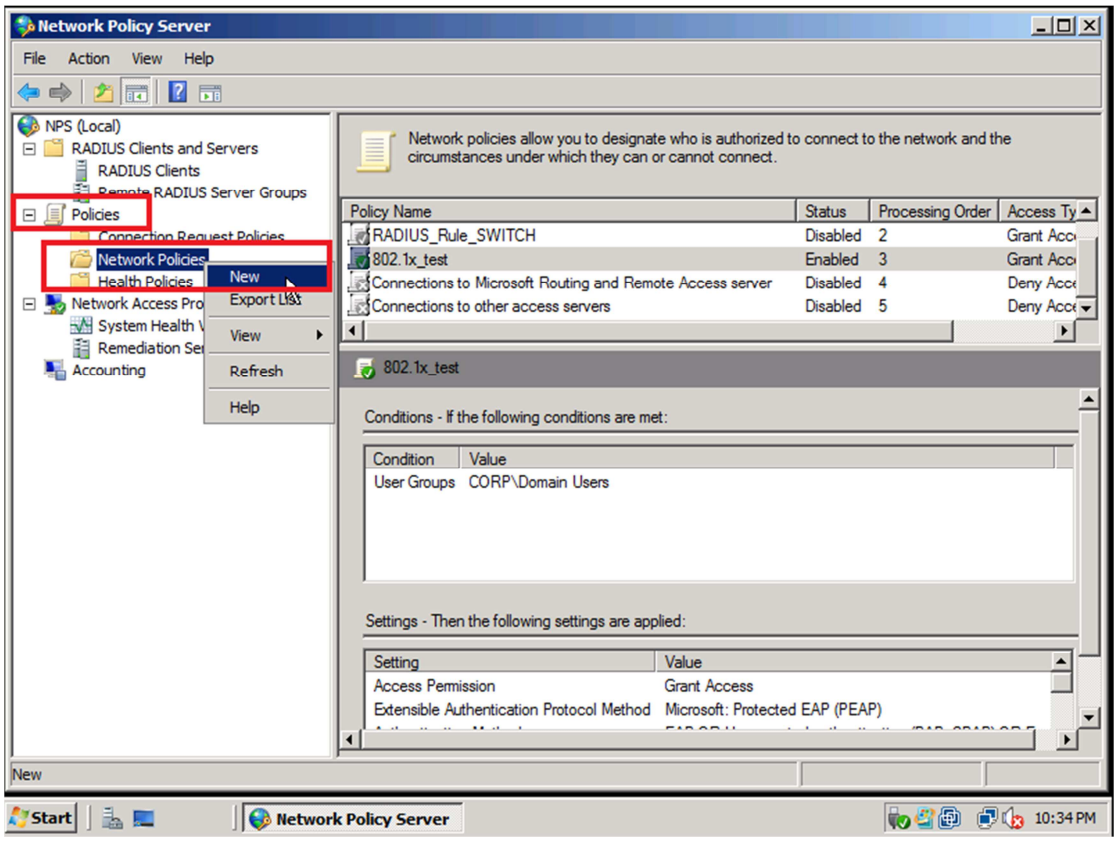
config ipif System ipaddress 192.168.1.1/24

[Windows Server 2008]:

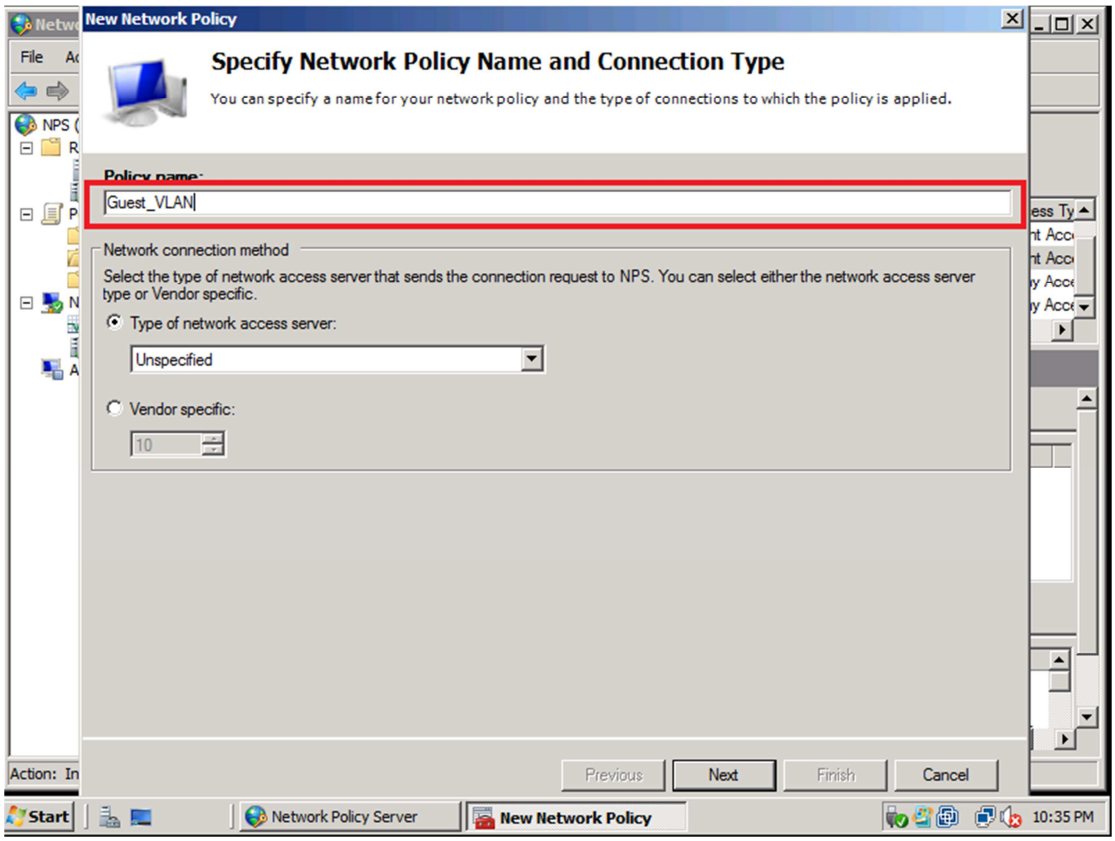
1. Under the **Network Policy Server**-> **RADIUS Clients** and new a RADIUS Client. You have to type the Switch IP address and key in this parts.



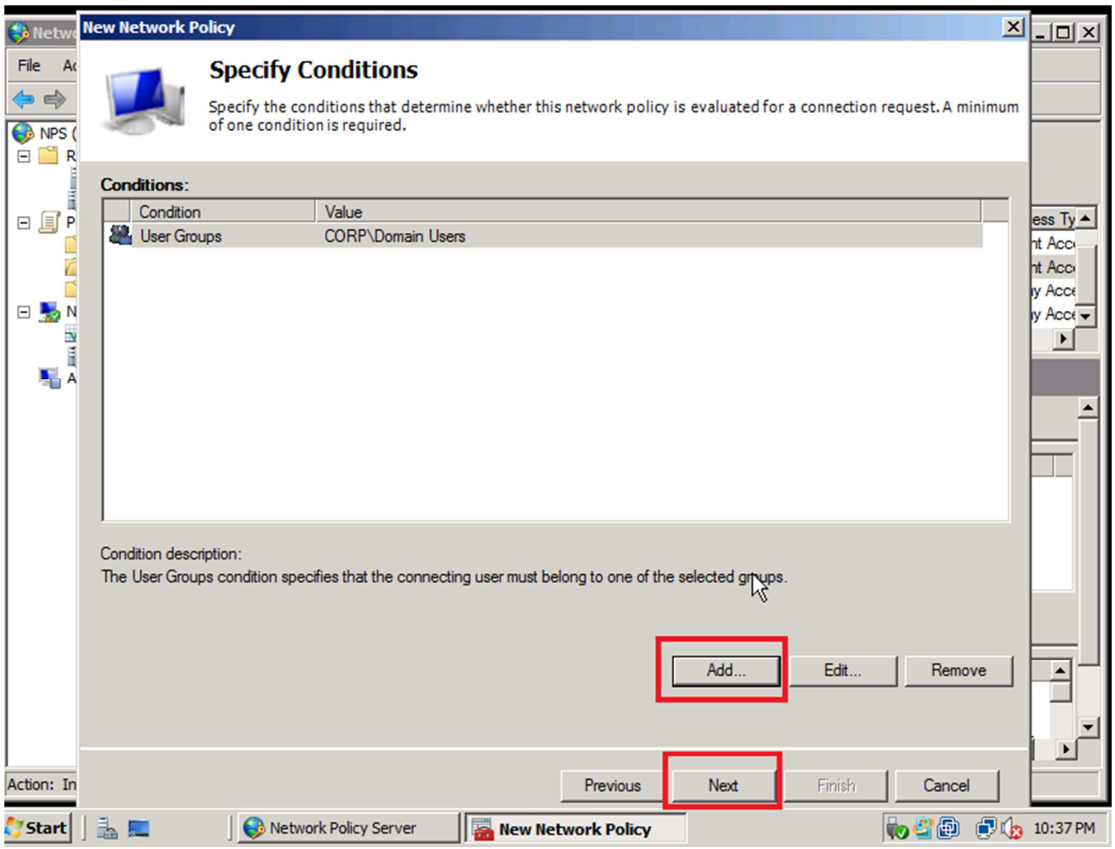
2. Under the **Policies**-> **Network Policies** and new a policy as follows



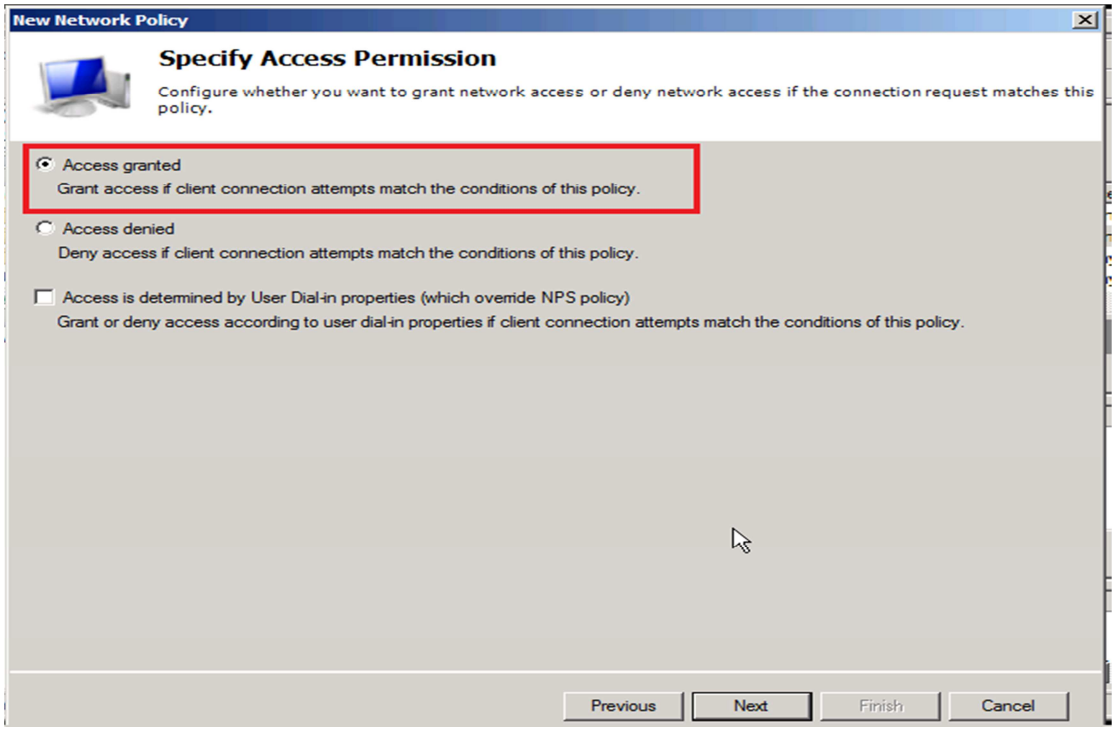
3. Specify the **Policy name** and click the **Next**.



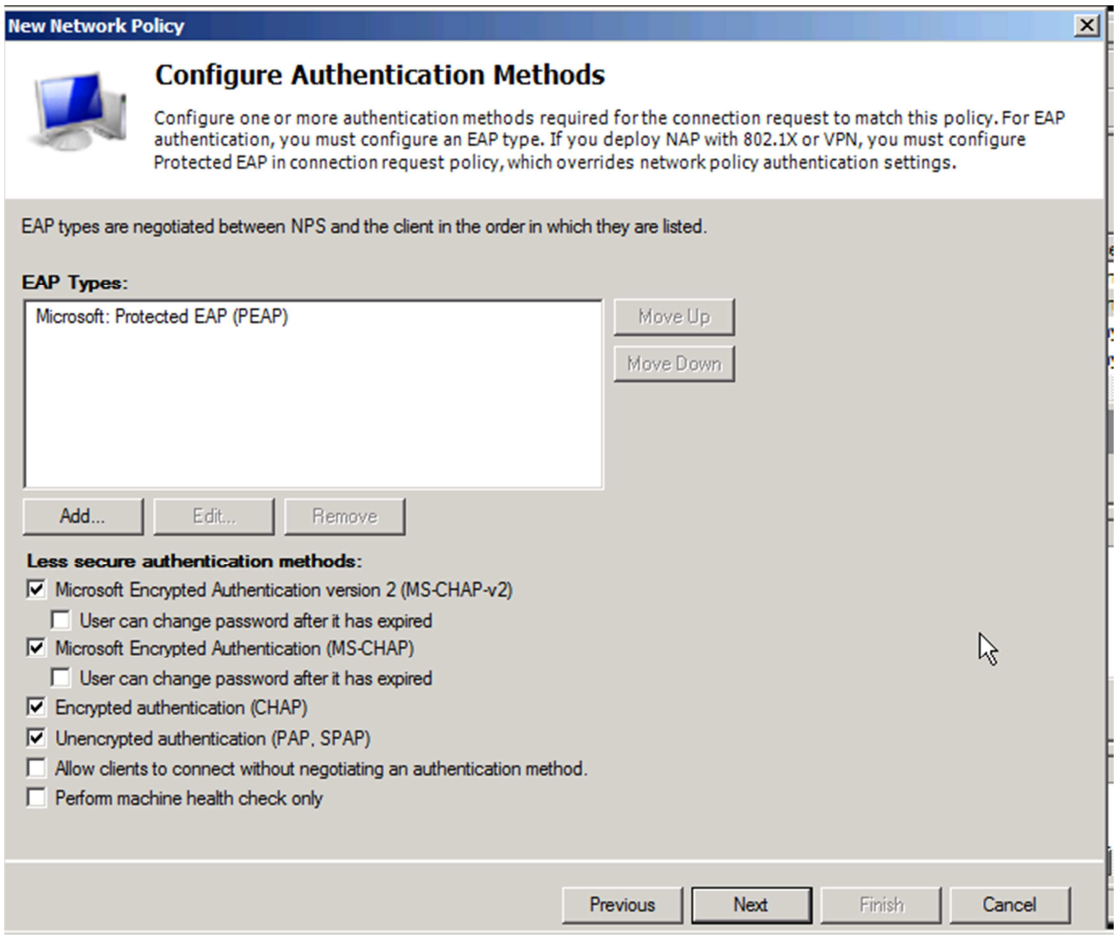
4.Click **Add** button and select the **Domain Users** into the condition and click the **Next**.

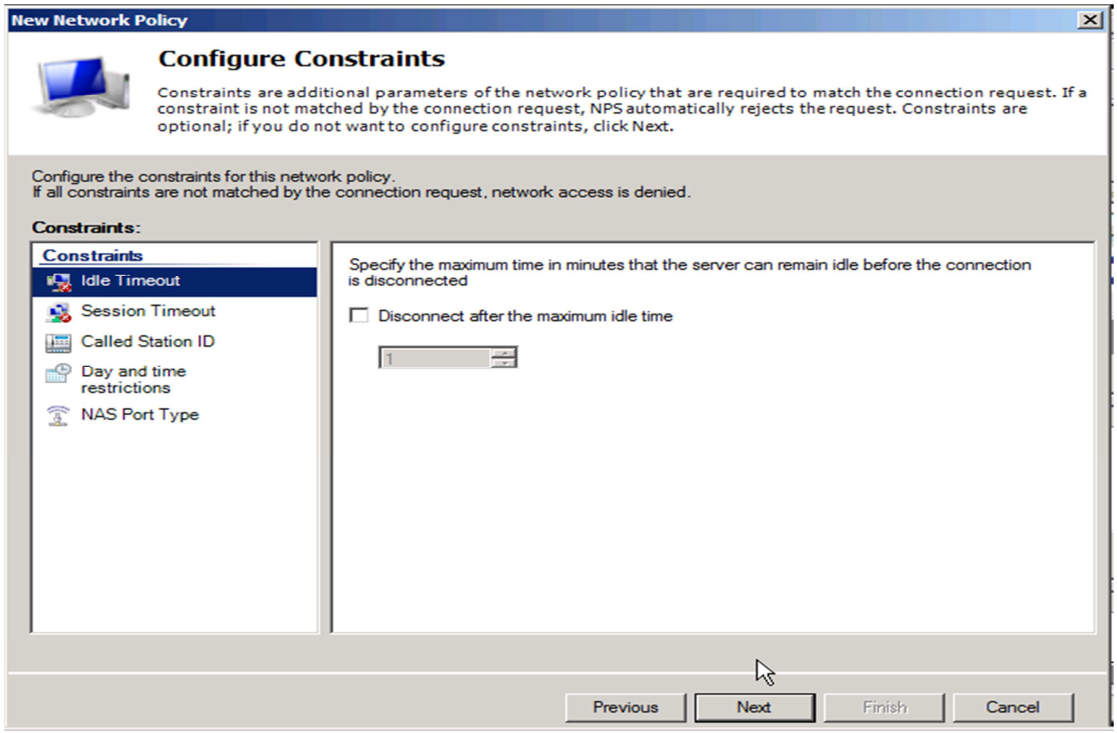


5.Select **Access granted** and click the **Next** button.

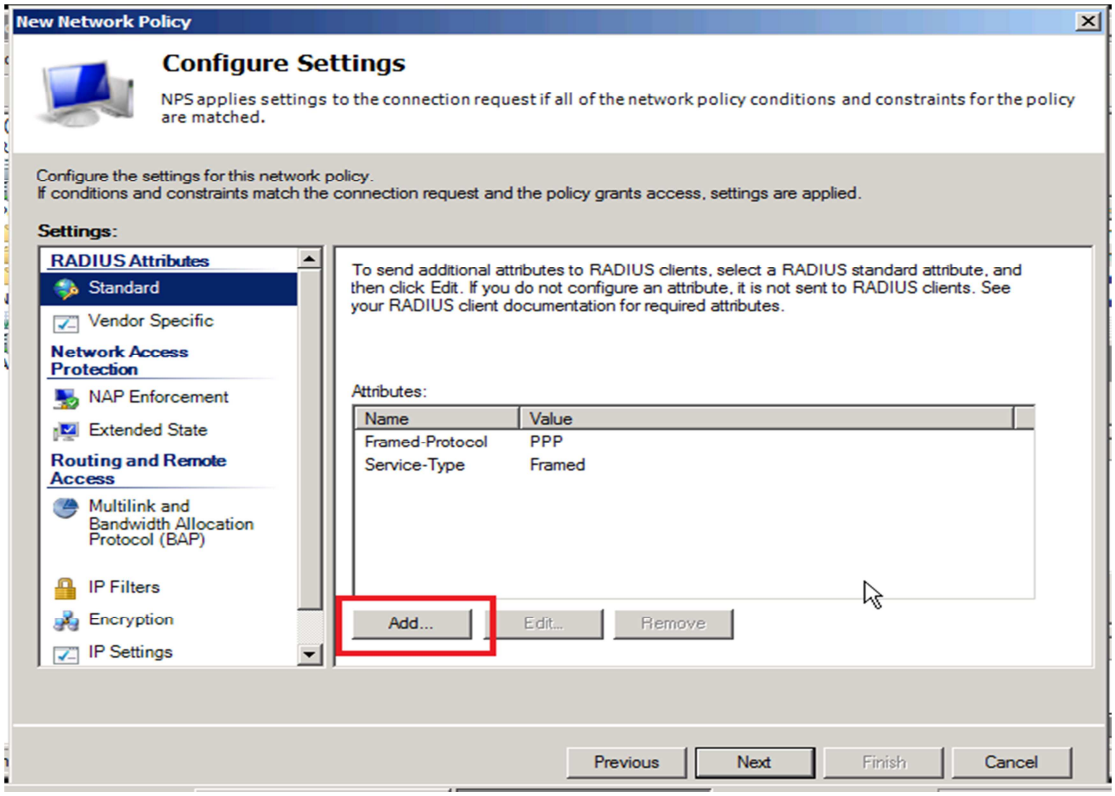


6.

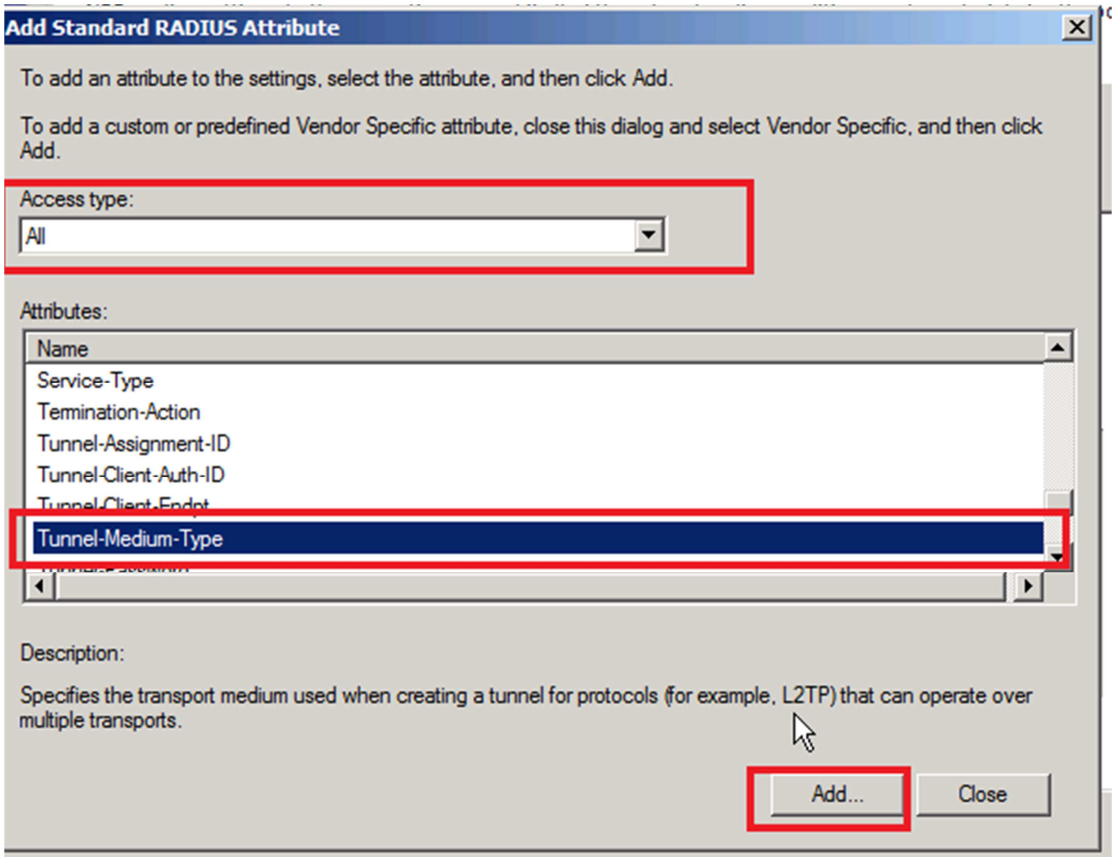




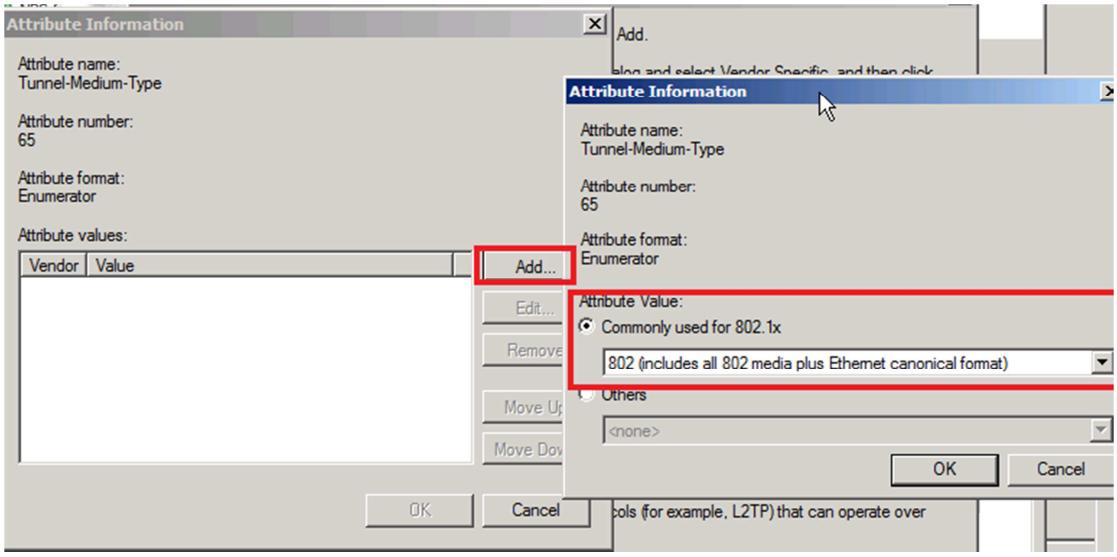
7. Click Add to add the following information (IMPORTANT):



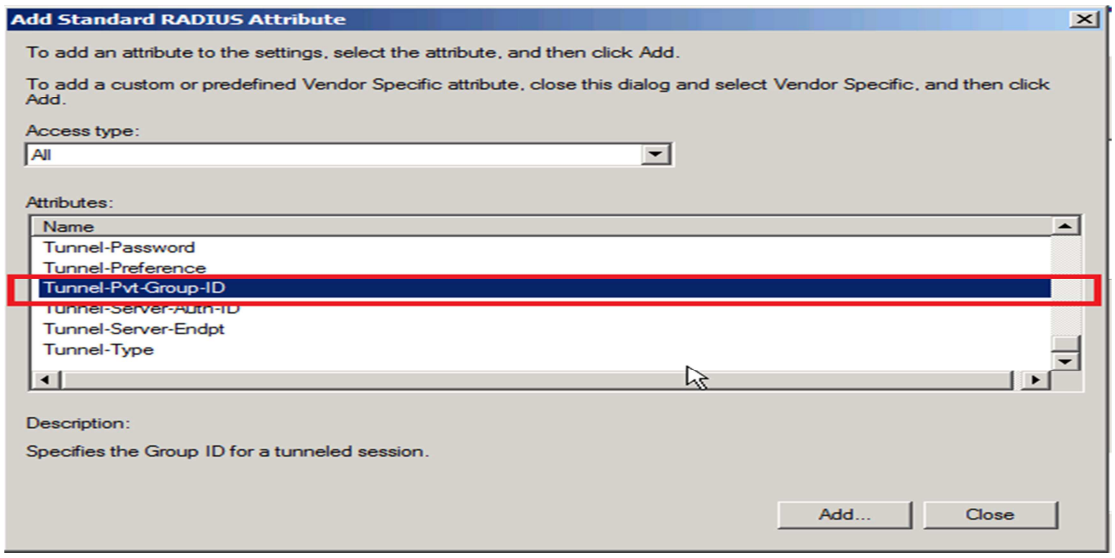
Choose the **Access type** as **All** and find the **Attributes** called **Tunnel-Medum-Type** and click **Add** button as follows.



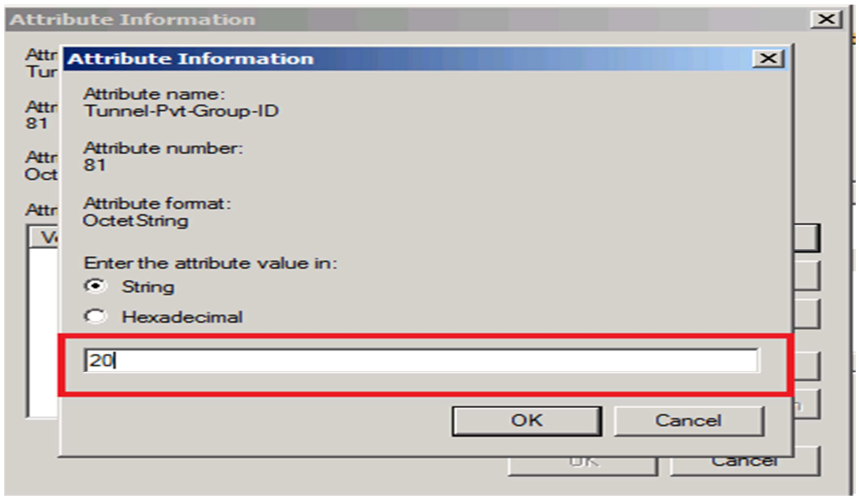
Click Add and select the Attribute Value as follows. Then Click OK



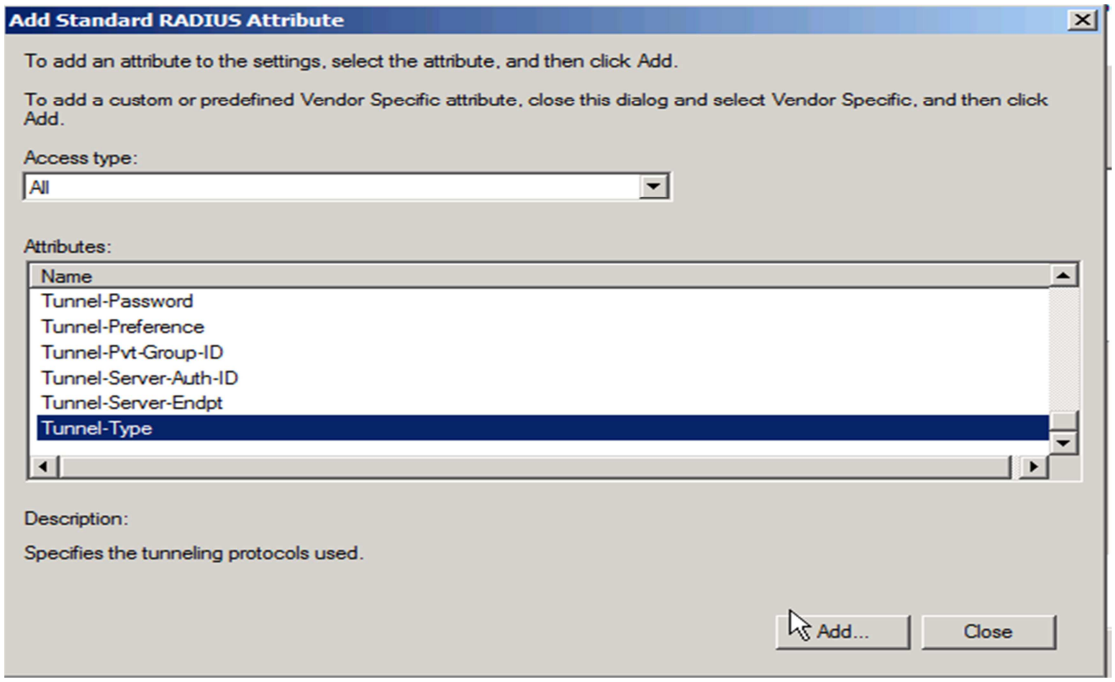
Secondly, you have to find the **Attributes** called **Tunnel-Pvt-Group-ID** and click the **Add**.

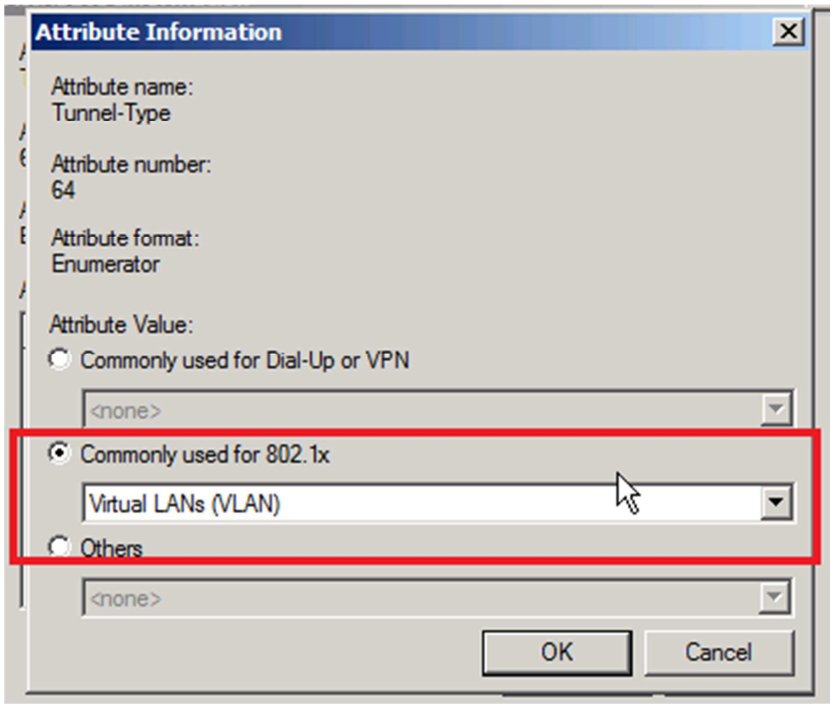


Specify the String to 20 as follows



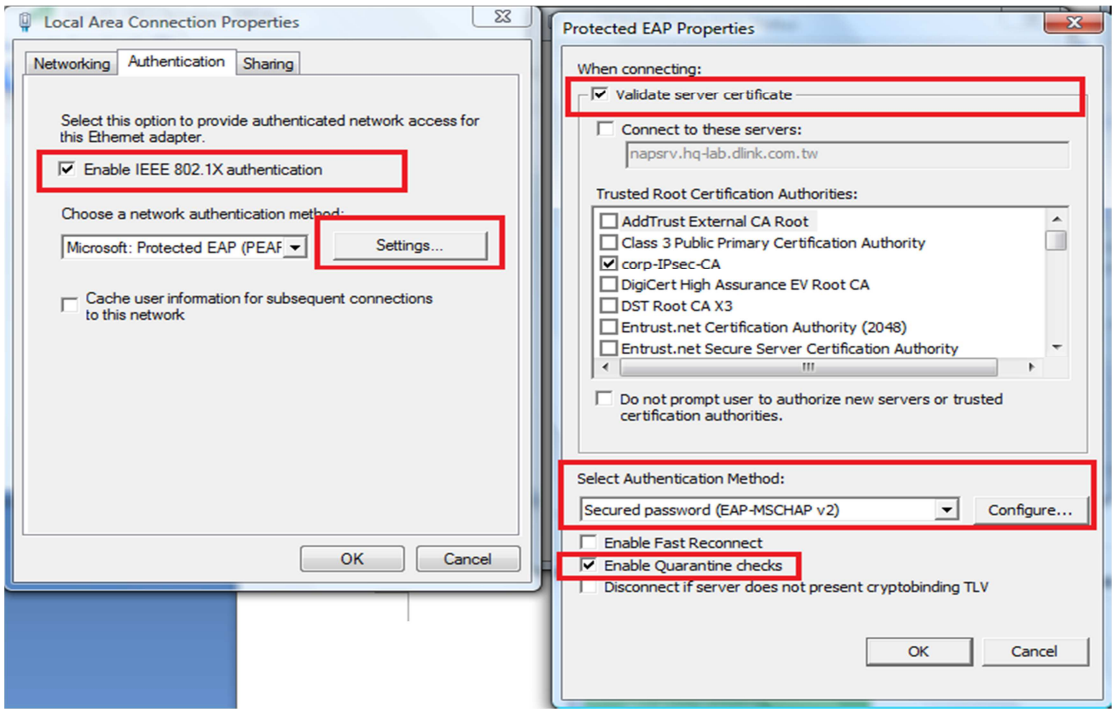
Finally, you have to find the Attributes called **Tunnel Type**:





[Testing Procedure]:

1. Client have to download the certificate from the Server through http://IP_address/certsrv . The IP_address isthe server_IP. Then import the client
2. For the client's NIC setting, you can refer the following:



3. Plug the cable on the port 11 and type the username/ password for it.

[Testing result]:

```
DES-3200-18:4#show vlanshow vlanshow 802.1x auth_state port 11show vlan
show 802.1x auth_state port 11
Command: show 802.1x auth_state ports 11

Port    Auth PAE State  Backend State  Port Status
------  --------------  -------------  ------------
11      Authenticated   Idle           Authorized


DES-3200-18:4#show vlanshow vlan
Command: show vlan

VID              : 1              VLAN Name         : default
VLAN Type        : Static         Advertisement     : Enabled
Member Ports     :
Static Ports     :
Current Tagged Ports    :
Current Untagged Ports  :
Static Tagged Ports     :
Static Untagged Ports   :
Forbidden Ports         :

VID              : 10             VLAN Name         : v10
VLAN Type        : Static         Advertisement     : Disabled
Member Ports     : 10,12-16
Static Ports     : 10,12-16
Current Tagged Ports    :
Current Untagged Ports  : 10,12-16
Static Tagged Ports     :
Static Untagged Ports   : 10,12-16
Forbidden Ports         :
 CTRL+C ESC q Quit SPACE n Next Page ENTER Next Entry a All

VID              : 20             VLAN Name         : v20
VLAN Type        : Static         Advertisement     : Disabled
Member Ports     : 1-9,11
Static Ports     : 1-9,11
Current Tagged Ports    :
Current Untagged Ports  : 1-9 11
Static Tagged Ports     :
Static Untagged Ports   : 1-9 11
Forbidden Ports         :

Total Entries   : 3
```

802.1x_Guest_VLAN
.log