How to set up 802.1x Port-based with Windows Server 2008

[Topology]:

Client(192.168.0.78)--(p8)DES-3200-18(192.168.0.1/24)(17)—Radius(192.168.0.100)

Radius server is used Windows Server 2008.
DES-3200-18 is used the firmware 1.30B04

[Configuration]:

[DES-3200-18]

config 802.1x capability ports 1:1-1:12 authenticator

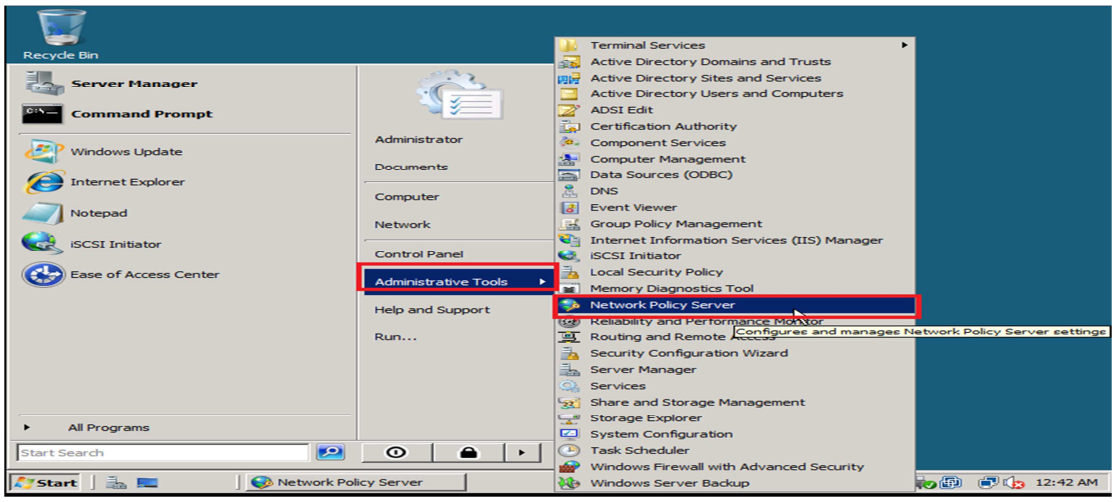
enable 802.1x

config radius add 1 192.168.0.100 key 123456 default

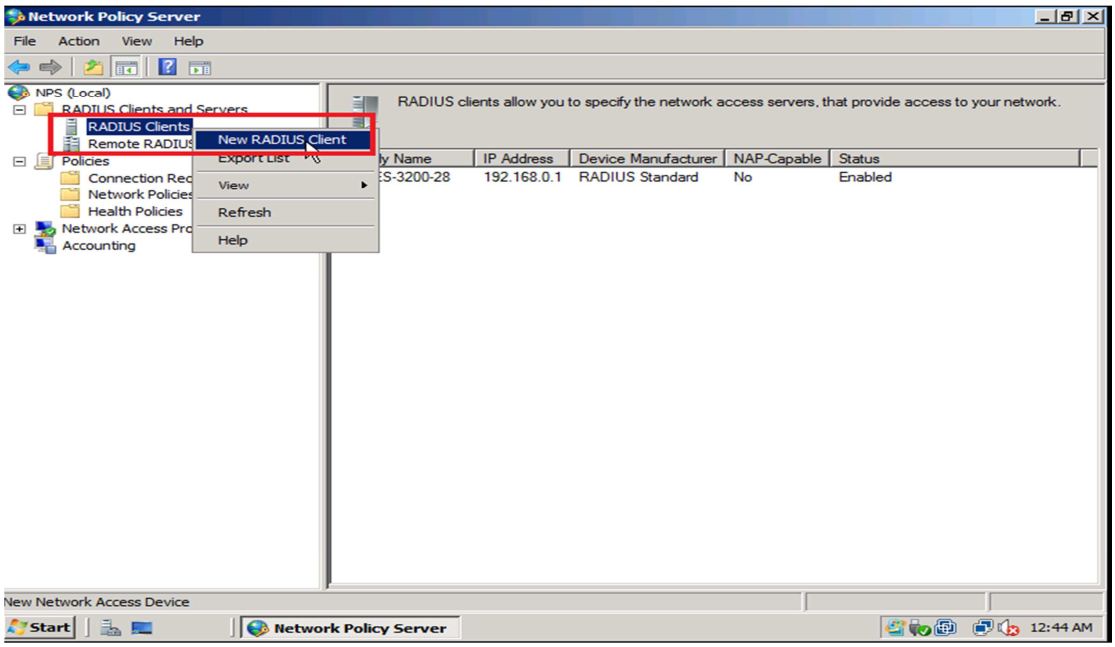
config 802.1x auth_mode port_based

[Windows Server 2008]

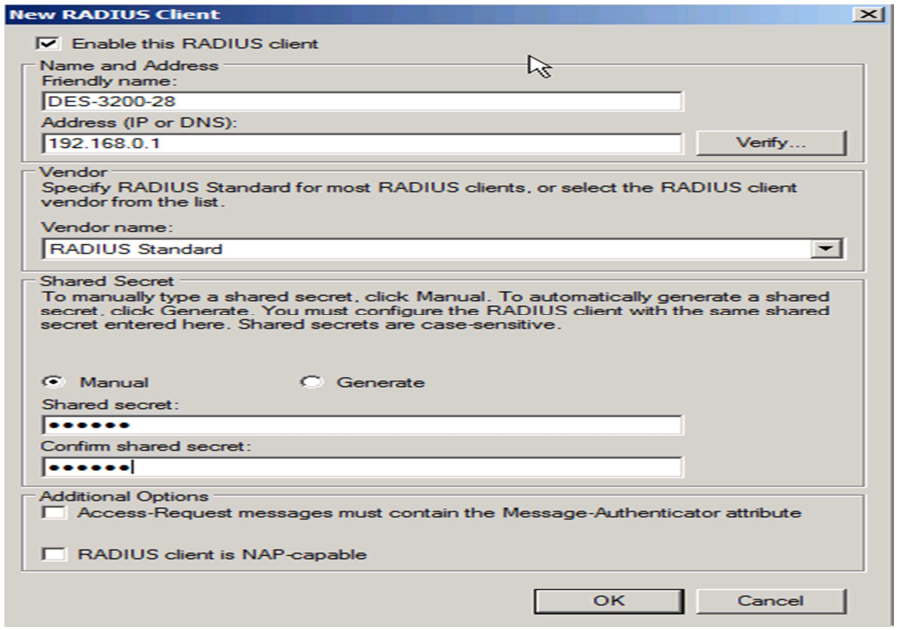
1. Click the **Network Policy Server** under **Start**->**Administrative Tools**->**Network Policy Server**.



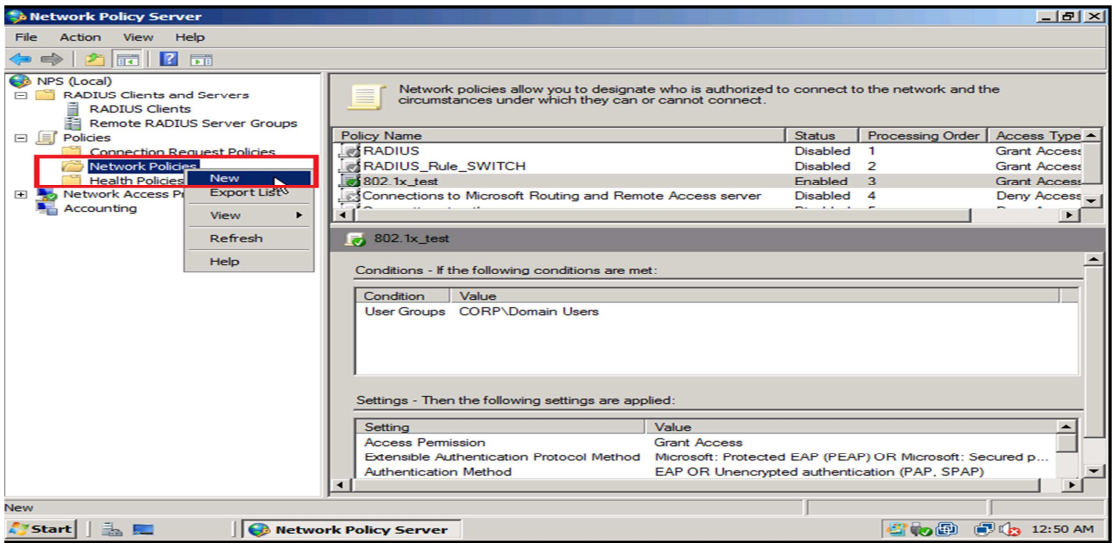
2. Click **New RADIUS Client** under **NPS(Local)**-> **RADIUS Clients and Servers**-> **RADIUS Clients**.



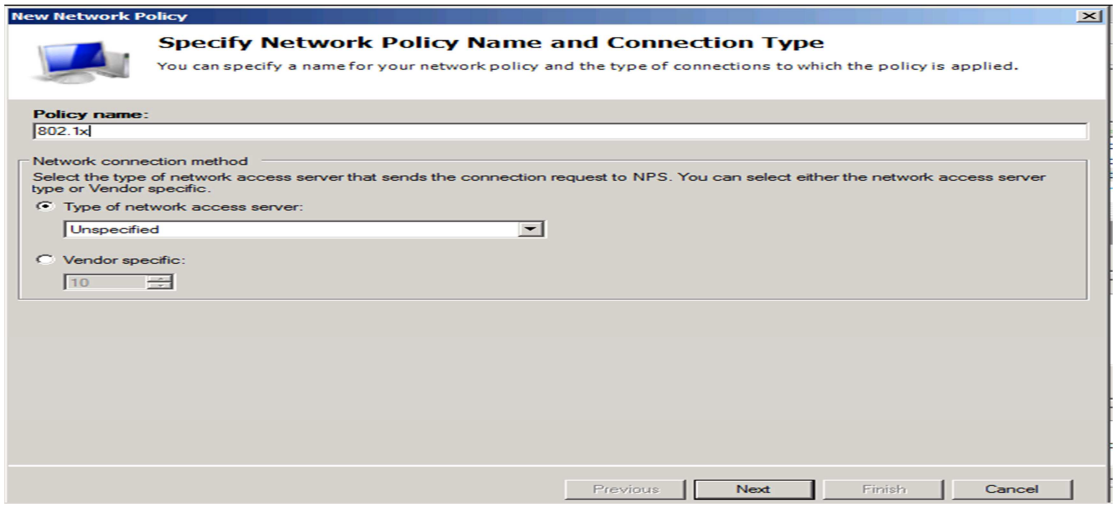
3. Filled the Friendly name, Address, and Shared secret as follows:



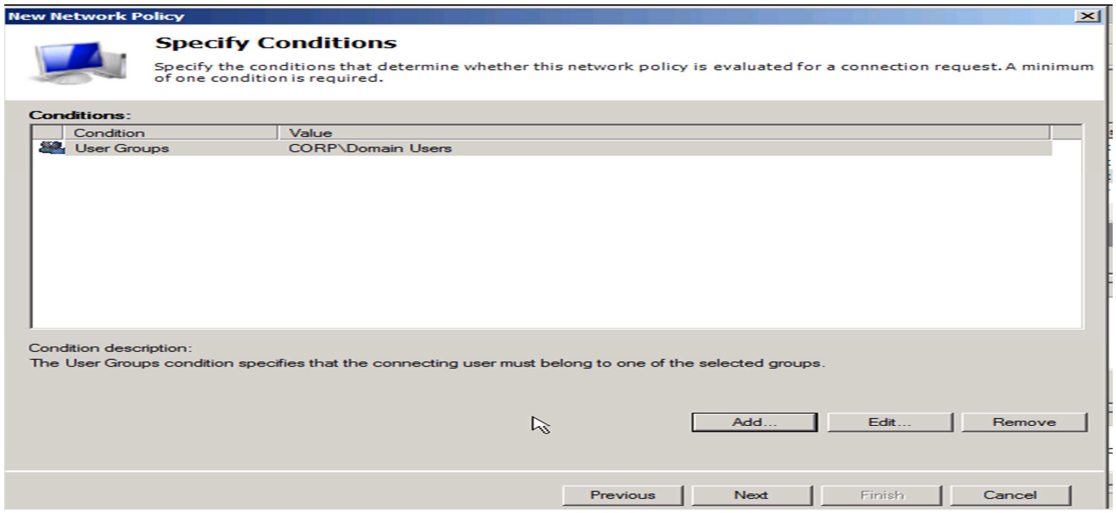
4. Click a **New** under **NPS(Local)**->**Polices**->**Network Polices**.



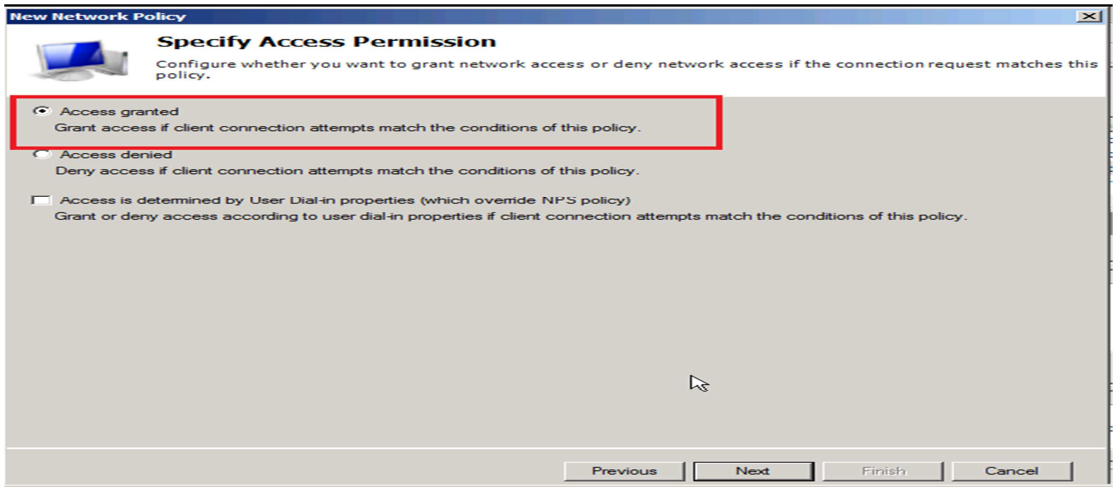
5. Specify the **Policy name** and then click the **Next** button.



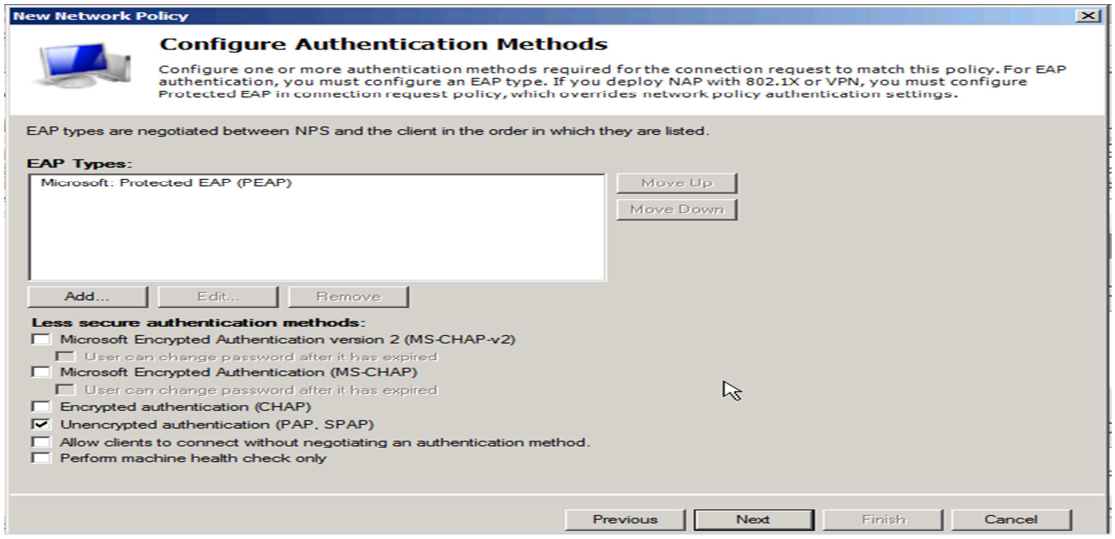
6. **Add** the **domain user group** in to the condition:

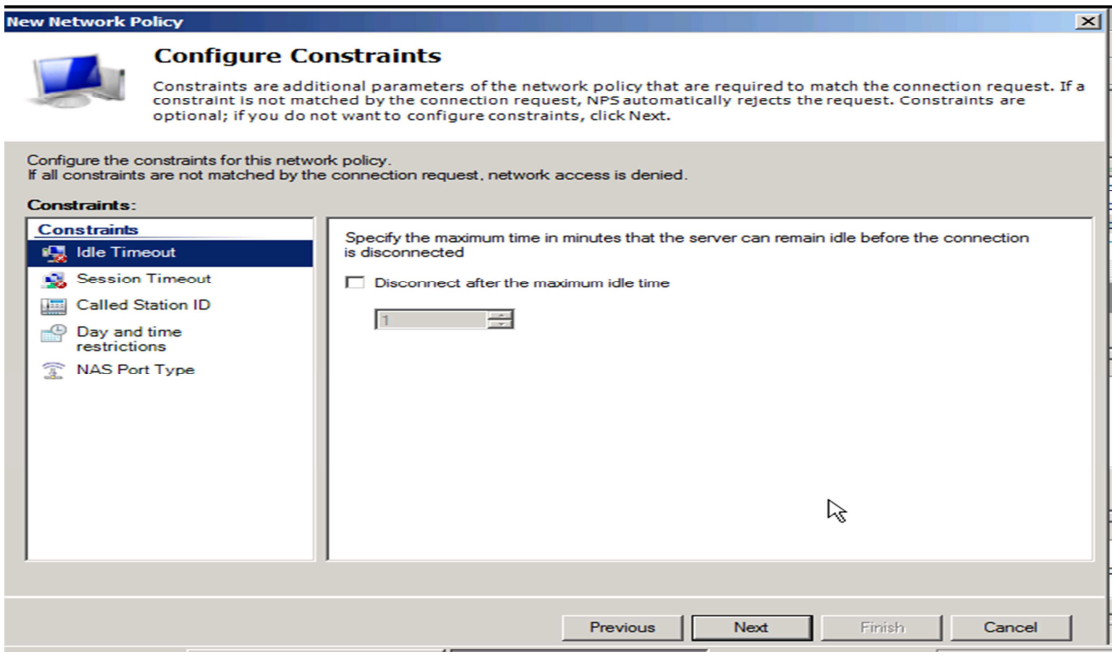


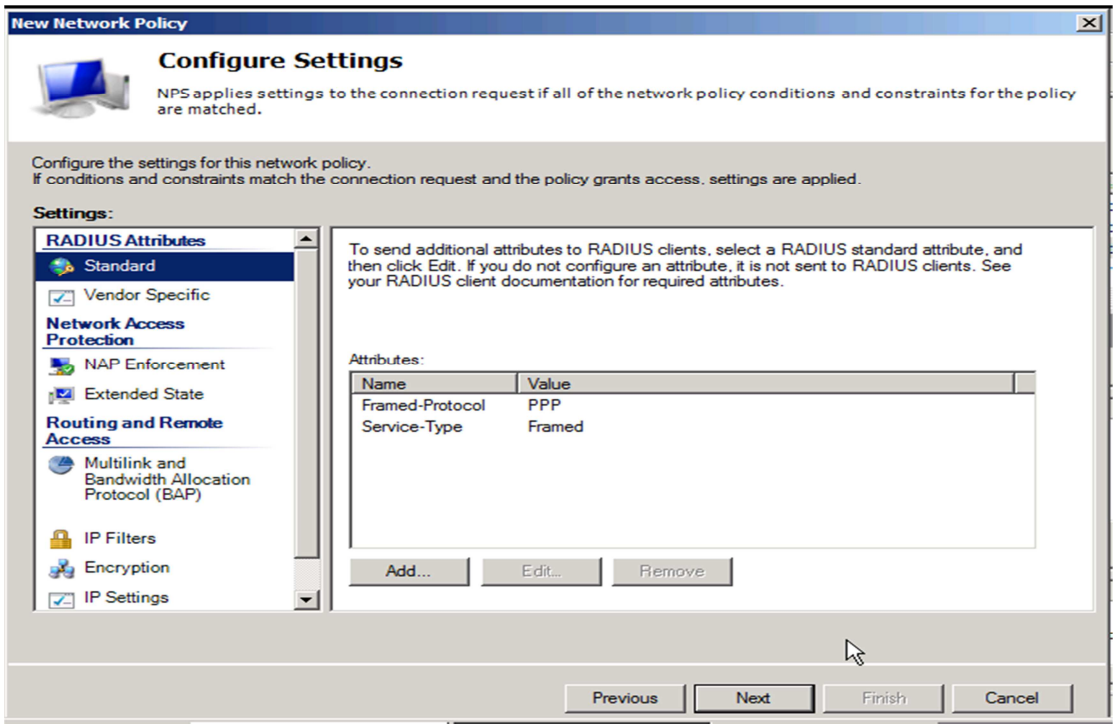
7. Specify **Access granted** and click **Next**:

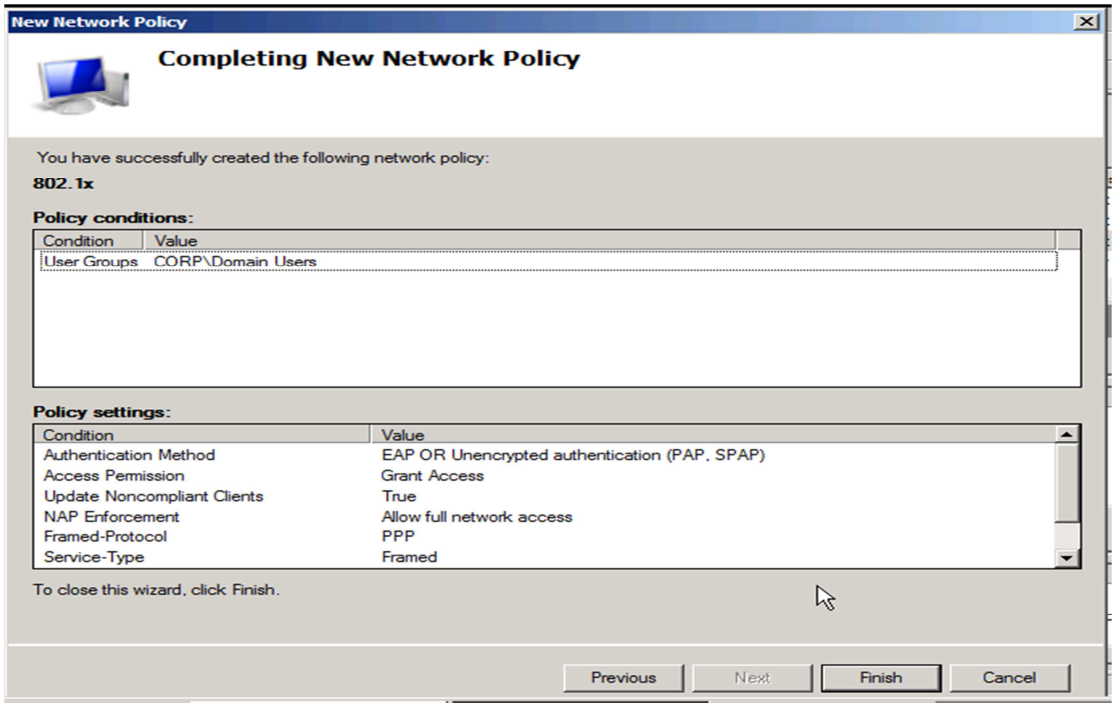


8. Configure Authentication Methods as follows:

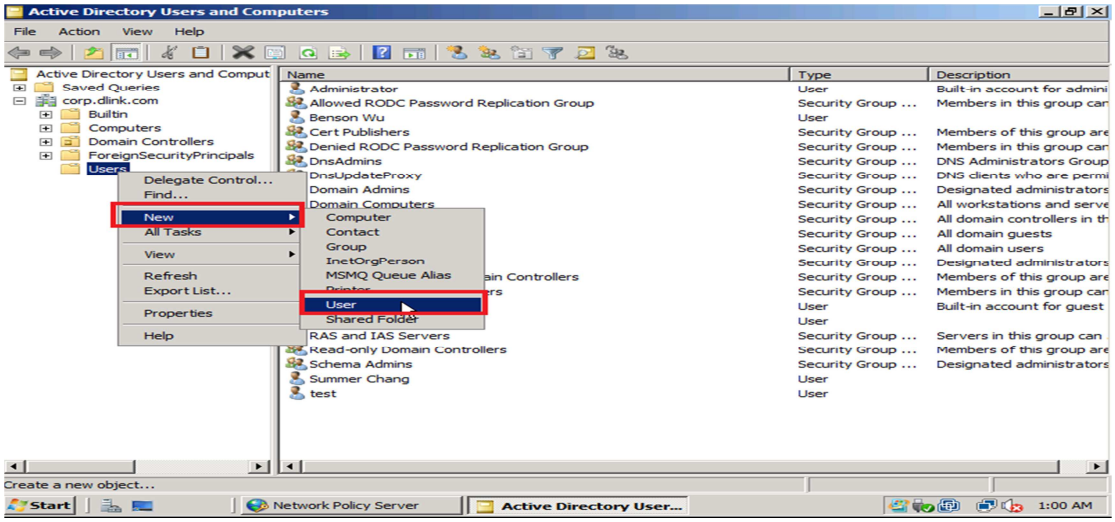






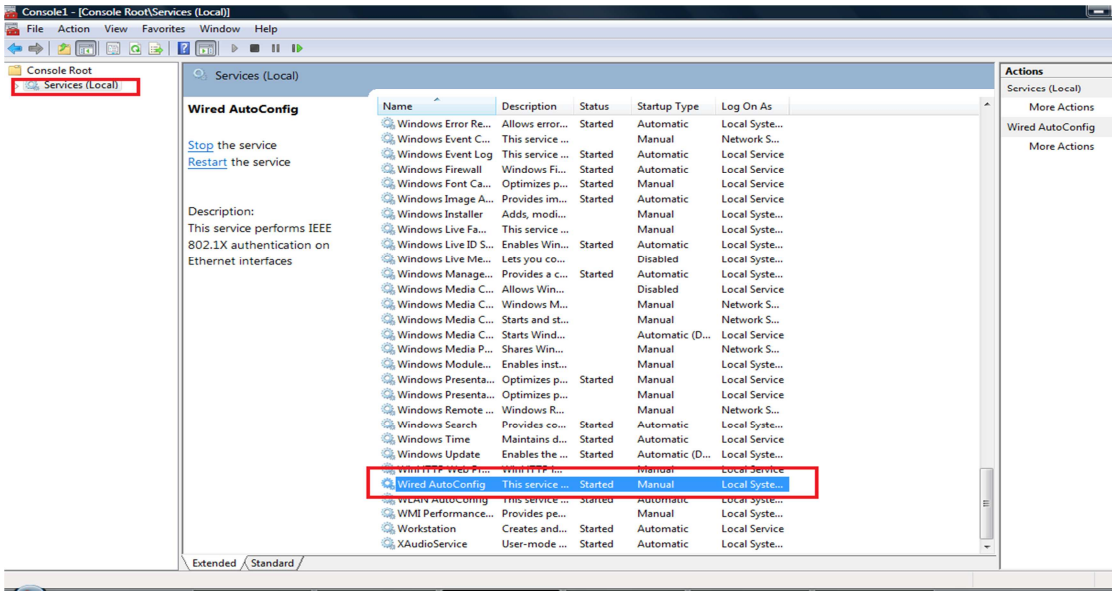


9. **Add** user under **Active Directory Users and Computers**.

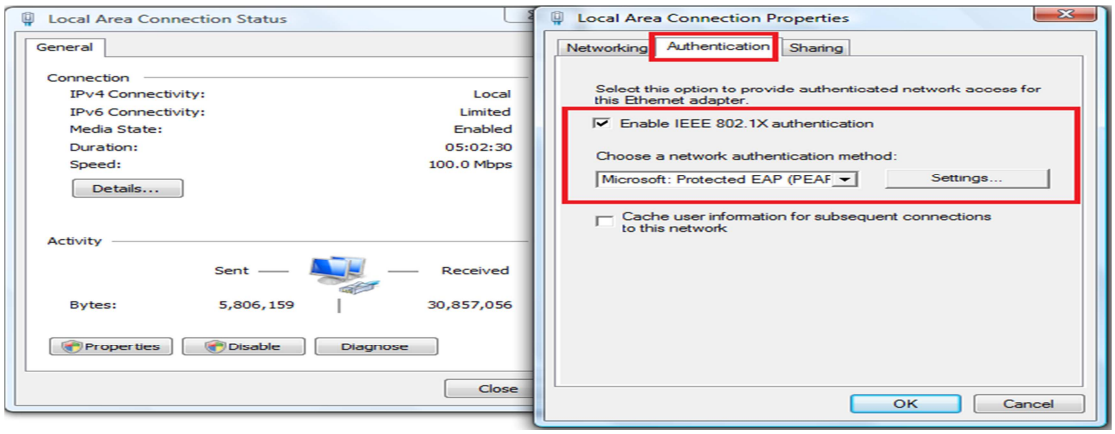


[Client Vista]:

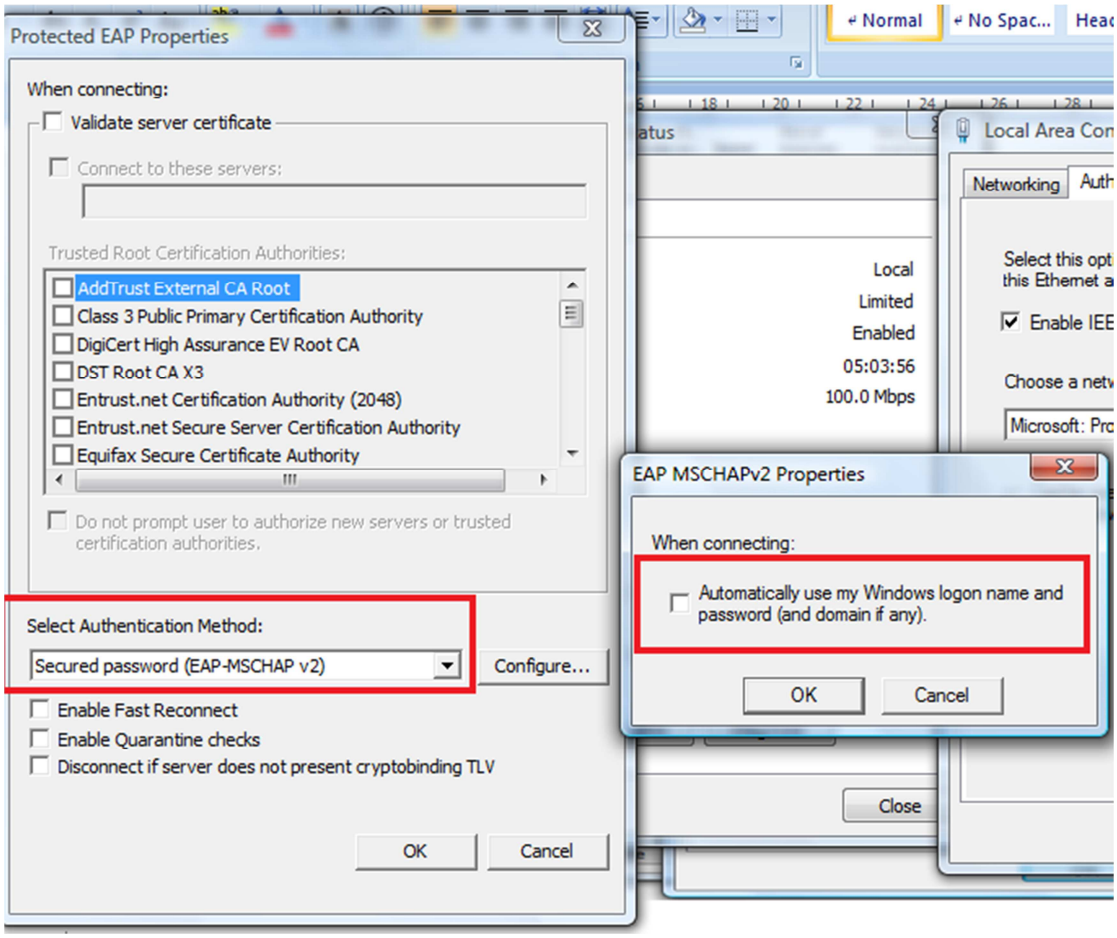
1. Use the MMC and go to the **Services**, check the **Wired AutoConfig** services is Started.



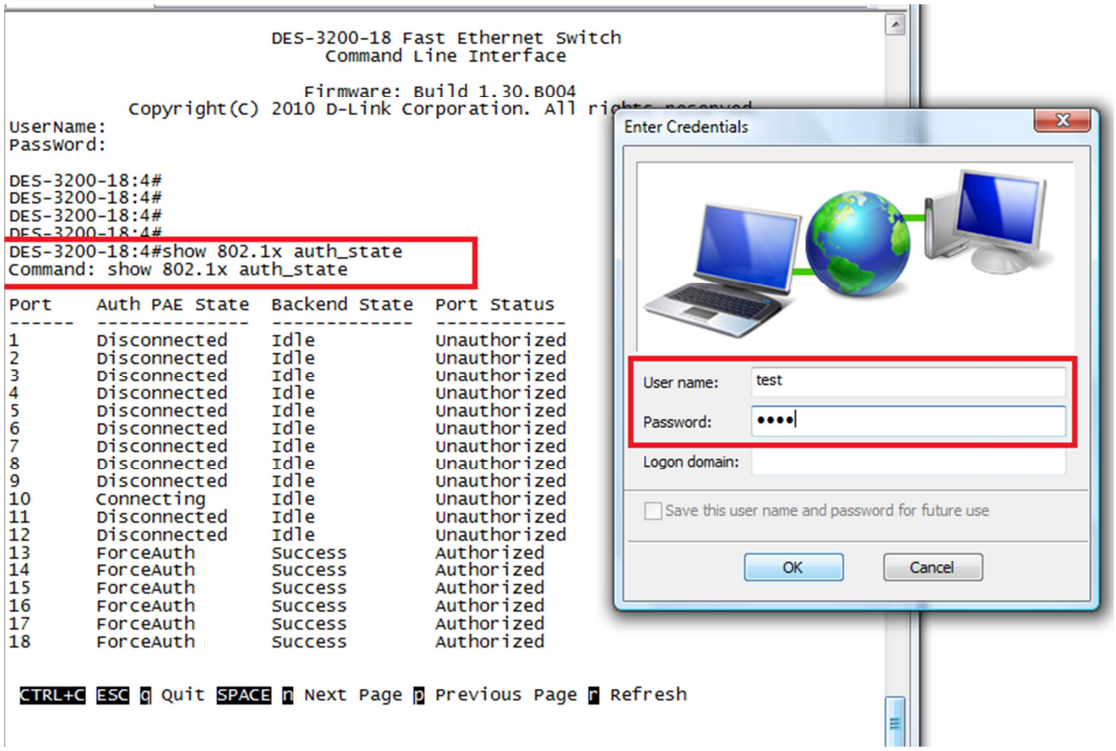
2. Under the NIC setting, make sure the **Authentication** tab come up. Then click the **Settings** button.



3. Click the **Configure..** button and disselect the **Automatically……**



[Testing Result]:



```
DES-3200-18:4#show 802.1x auth_state
Command: show 802.1x auth_state

Port    Auth PAE State  Backend State  Port Status
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1       Disconnected    Idle           Unauthorized
2       Disconnected    Idle           Unauthorized
3       Disconnected    Idle           Unauthorized
4       Disconnected    Idle           Unauthorized
5       Disconnected    Idle           Unauthorized
6       Disconnected    Idle           Unauthorized
7       Disconnected    Idle           Unauthorized
8       Disconnected    Idle           Unauthorized
9       Disconnected    Idle           Unauthorized
10      Authenticated   Idle           Authorized
11      Disconnected    Idle           Unauthorized
12      Disconnected    Idle           Unauthorized
13      ForceAuth       Success        Authorized
14      ForceAuth       Success        Authorized
15      ForceAuth       Success        Authorized
16      ForceAuth       Success        Authorized
17      ForceAuth       Success        Authorized
18      ForceAuth       Success        Authorized
```