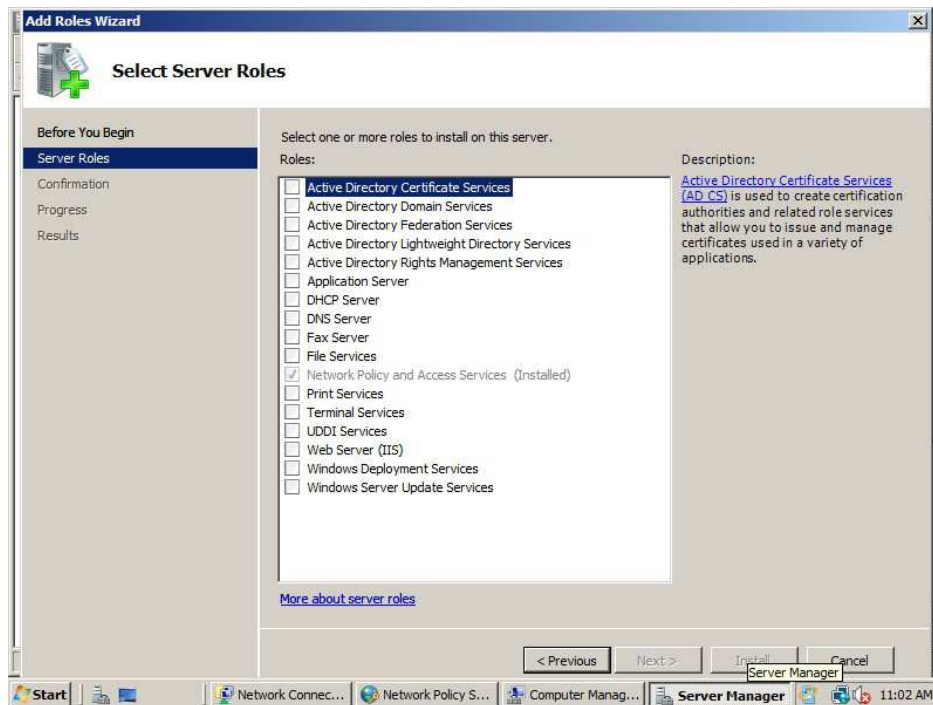


How to setup MAC-Based-Access-Control with Microsoft Windows Server 2008 NPS

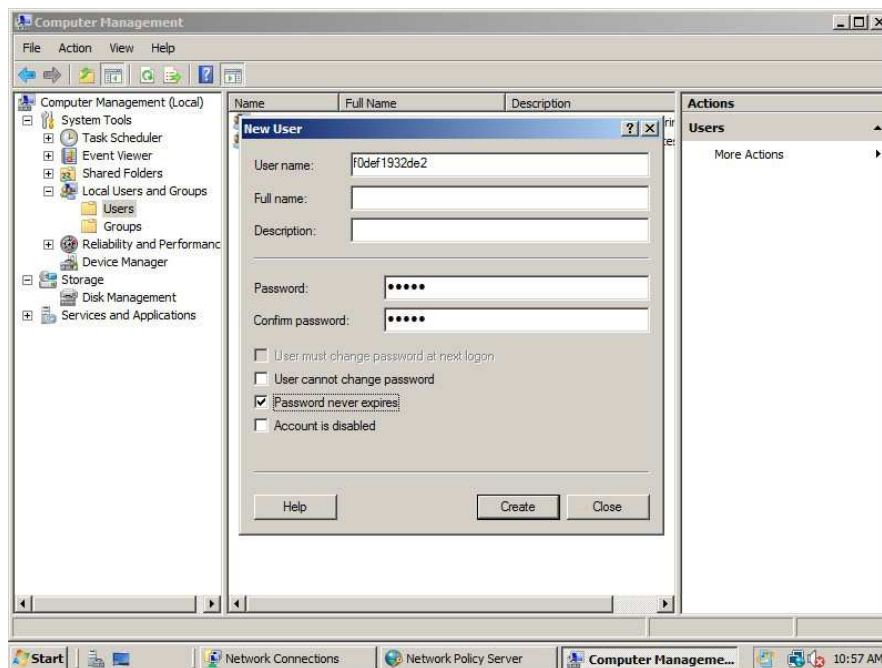
[Topology]

Client-----DGS-3120-----RADIUS Server
(p2) (p24)
10.90.90.90 10.90.90.201

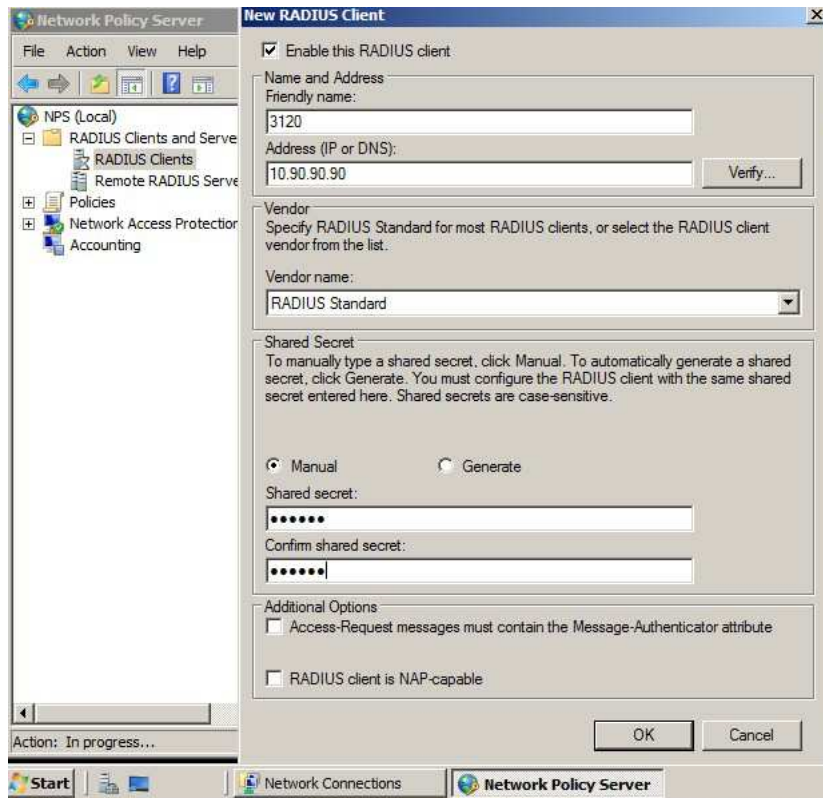
1. Install NPS role on Windows Server 2008.



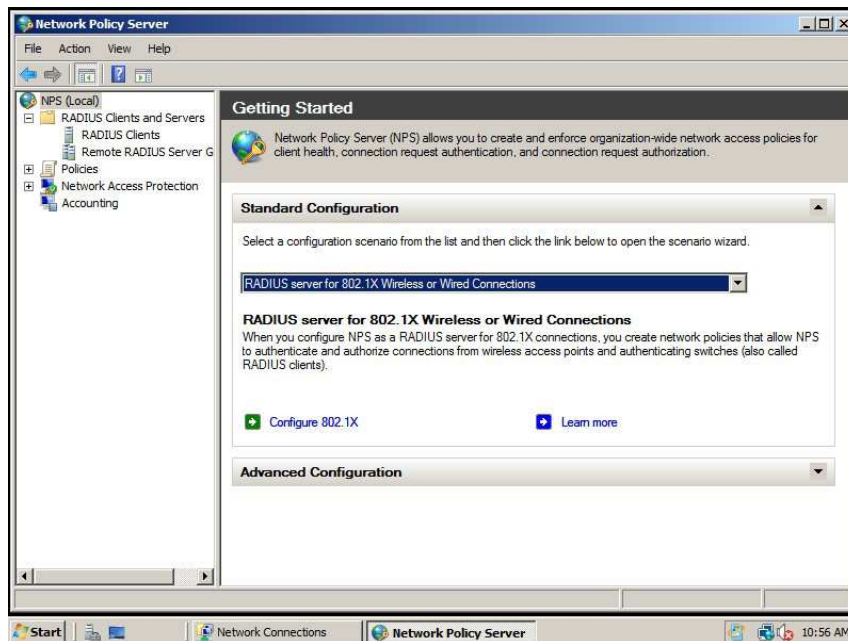
2. Create a new username as allowed host MAC address, password is "link".



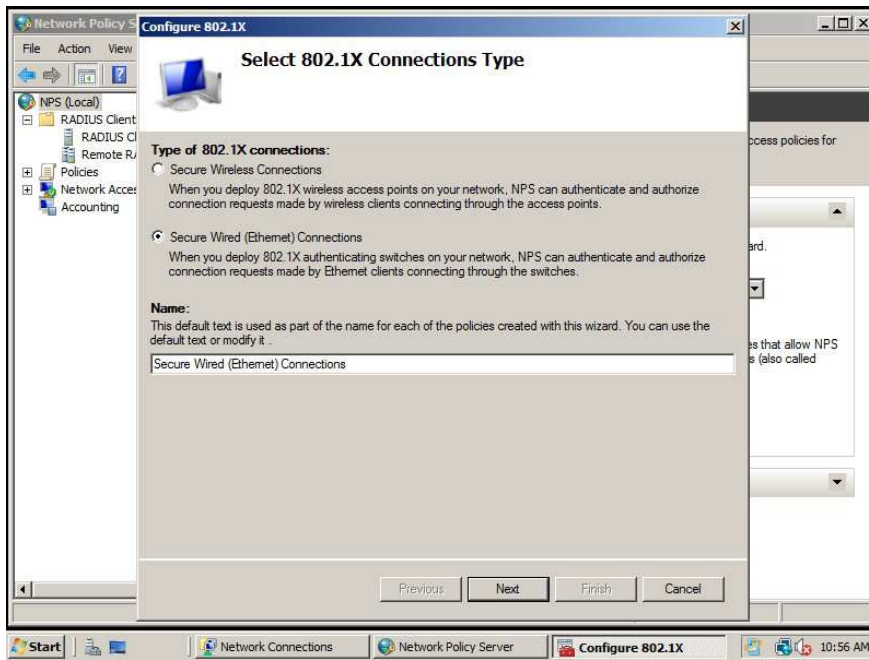
3. Add RADIUS client (Switch) into NPS, key is 123456.



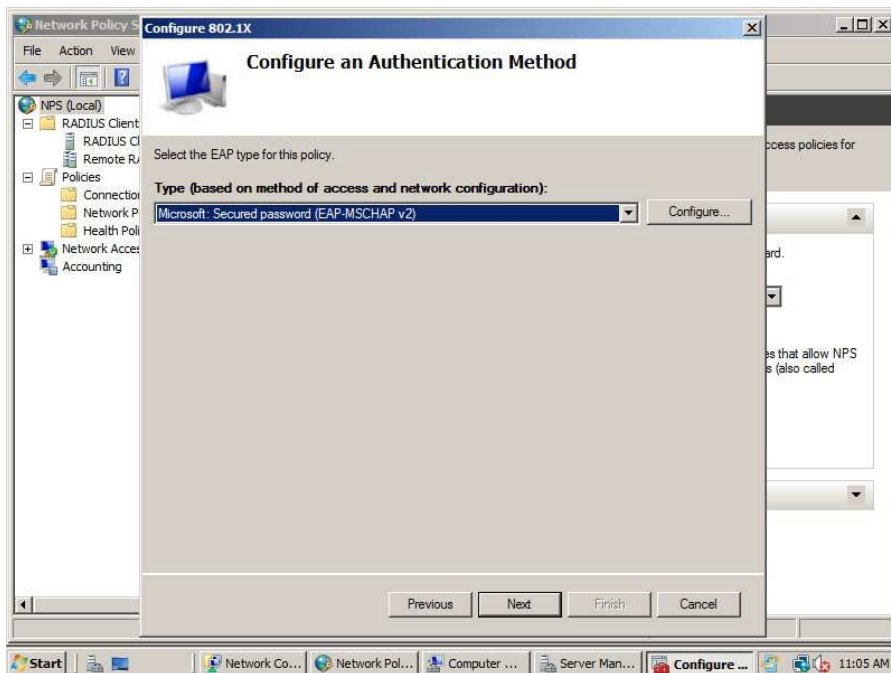
4. Create NPS policy as “RADIUS server for 802.1x Wireless or Wired connections”.



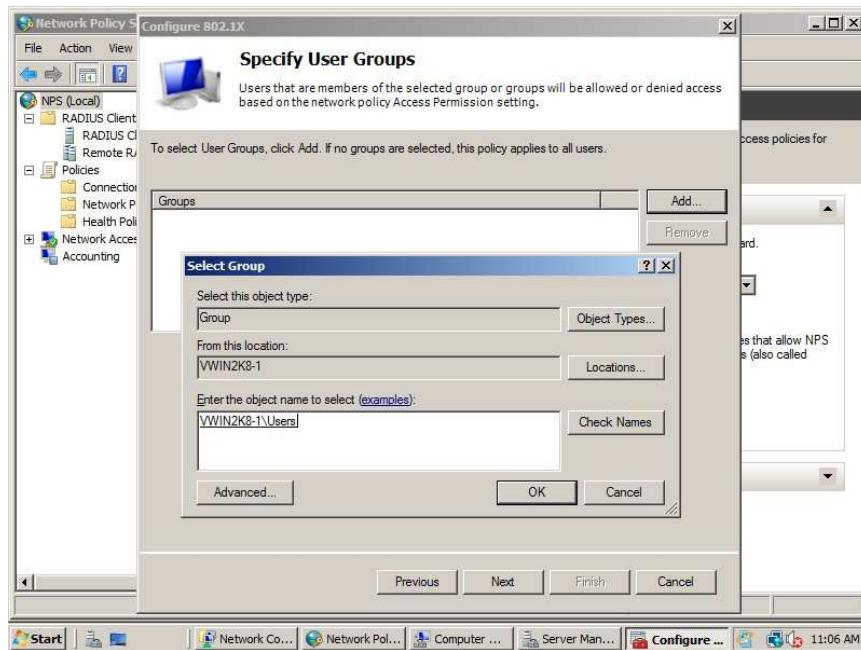
5. Select Secure Wired (Ethernet) Connections.



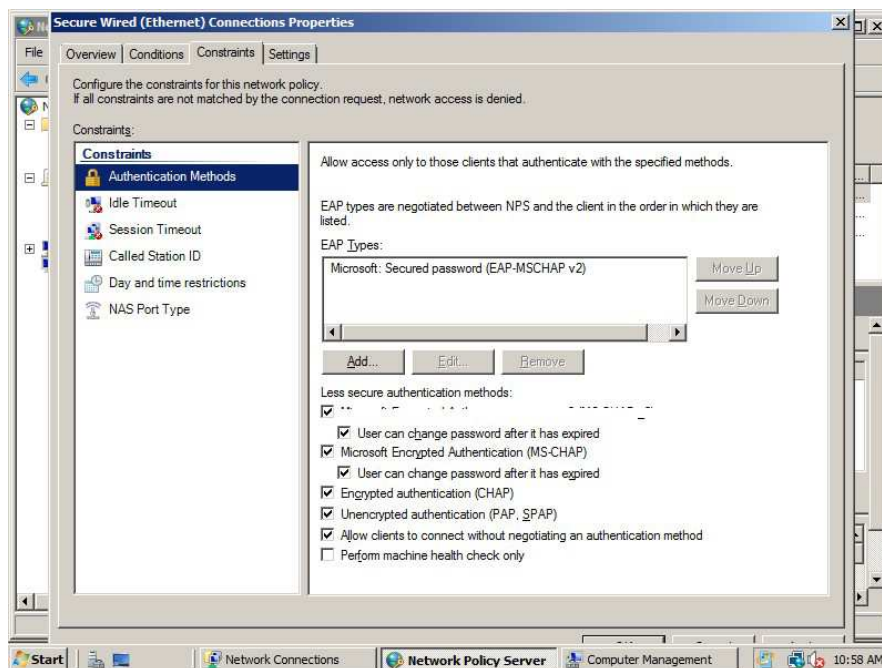
6. EAP Type select "EAP-MSCHAP v2".



7. Add user groups.



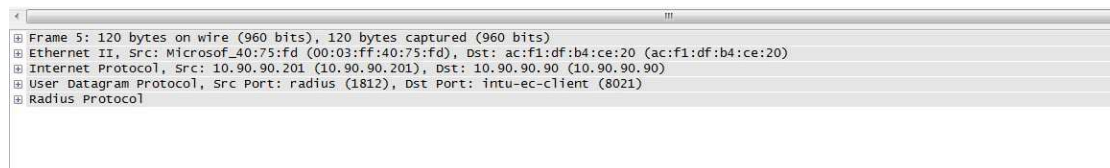
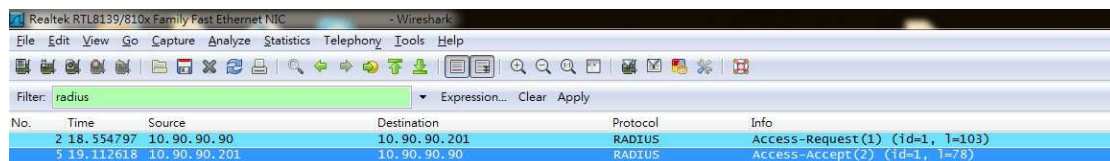
8. Click "next" to finish.
9. Edit the policy, select "constraints" label. And check below options. Then click "OK" and ignore warning message.



Apply below command on switch:

```
config mac_based_access_control method radius  
config mac_based_access_control password dlink //this password must be the same  
to step 2  
config mac_based_access_control ports 1:1-1:8 state enable  
enable mac_based_access_control  
config radius add 1 10.90.90.201 key 123456 default //this key must be the same to  
step 3
```

After connect client on port 2, you can see RADIUS-Accept packet on Server side.



And show port status on Switch:

```
DGS-3120-24TC:admin#show mac_based_access_control auth_state ports 2  
Command: show mac_based_access_control auth_state ports 1:2
```

(P): Port-based

Port	MAC Address	State	VID	Priority	Aging Time/ Block Time
1:2	F0-DE-F1-93-2D-E2	Authenticated	1	-	1440

```
Total Authenticating Hosts : 0  
Total Authenticated Hosts : 1  
Total Blocked Hosts : 0
```

```
DGS-3120-24TC:admin#
```