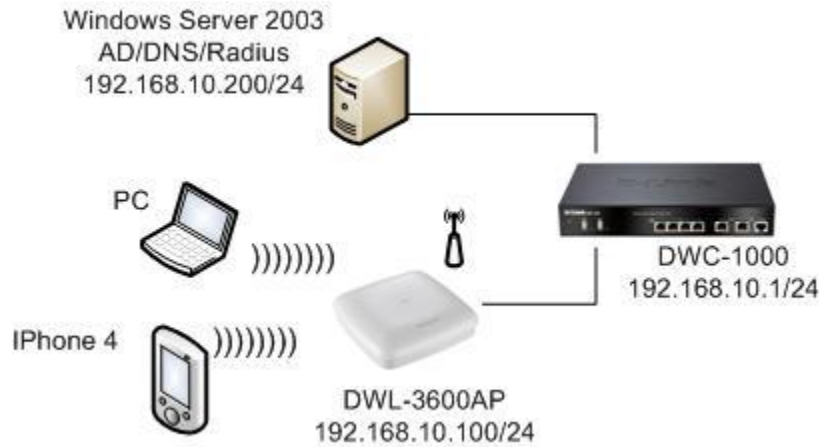


How to setup DWC Radius Authentication with Windows server 2003 Active Directory
 [Topology]



[DWC Setup] Firmware: 4.1.0.2_10244W

1. Status > Access Point Info > Managed AP Status > Manage Managed AP

ACCESS POINTS SUMMARY						LOGOUT
The All AP Summary page shows summary information about managed, failed, and rogue access points the controller has discovered or detected.						
List of APs						
	MAC Address	IP Address	Age	Status	Radio	Channel
<input type="checkbox"/>	cc:b2:55:83:30:20	192.168.10.100	0h:0m:0s	Managed	2-802.11b/g/n	6

2. Setup > Network Settings > LAN Setup Configuration > Enable DHCP Server
- 2.1 Setup DHCP IP pool

DHCP	
DHCP Mode:	DHCP Server
Starting IP Address:	192.168.10.110
Ending IP Address:	192.168.10.120

3. Setup > Network Settings > LAN DHCP Reserved IPs > Setup AP IP address
- Make sure the AP IP address.

DHCP Reserved IPs (LAN)		
	IP Address	MAC Address
<input type="checkbox"/>	192.168.10.100	cc:b2:55:83:30:20

4. Advanced > Radius Settings
- Setup the Radius Server IP address and secret.

Radius Server Configuration	
Authentication Server IP Address (Primary):	192.168.10.200
Authentication Port:	1812
Secret:	••••••••
Timeout:	1 (Seconds)
Retries:	2

5. Advanced > SSIDs

Setup the Wireless Network Configuration.

Wireless Network Configuration	
SSID	<input type="text" value="3600_Michael"/>
Hide SSID	<input type="checkbox"/>
Ignore Broadcast	<input type="checkbox"/>
VLAN	<input type="text" value="1"/> (1 to 4093)
MAC Authentication	<input type="radio"/> Local <input type="radio"/> Radius <input checked="" type="radio"/> Disable
Redirect	<input checked="" type="radio"/> None <input type="radio"/> HTTP
Redirect URL	<input type="text"/>
Wireless ARP Suppression Mode	Disable ▾
L2 Distributed Tunneling Mode	Disable ▾
RADIUS Authentication Server Name	<input type="text" value="Default-RADIUS-Server"/>
RADIUS Authentication Server Status	Configured
RADIUS Accounting Server Name	<input type="text" value="Default-RADIUS-Server"/>
RADIUS Accounting Server Status	Not Configured
RADIUS Use Network Configuration	Enable ▾
RADIUS Accounting	<input type="checkbox"/>
Security	<input type="radio"/> None <input type="radio"/> WEP <input checked="" type="radio"/> WPA/WPA2 <input type="radio"/> WPA Personal <input checked="" type="radio"/> WPA Enterprise
WPA Versions	<input checked="" type="checkbox"/> WPA <input checked="" type="checkbox"/> WPA2
WPA Ciphers	<input checked="" type="checkbox"/> TKIP <input checked="" type="checkbox"/> CCMP (AES)
Pre-Authentication	<input checked="" type="checkbox"/>
Pre-Authentication Limit	<input type="text" value="0"/> (0 to 192)
Key Caching Hold Time	<input type="text" value="10"/> (1 to 1440)
Bcast Key Refresh Rate(seconds)	<input type="text" value="300"/> (0 to 86400)
Session Key Refresh Rate(seconds)	<input type="text" value="0"/> (30 to 86400, 0 - Disable)

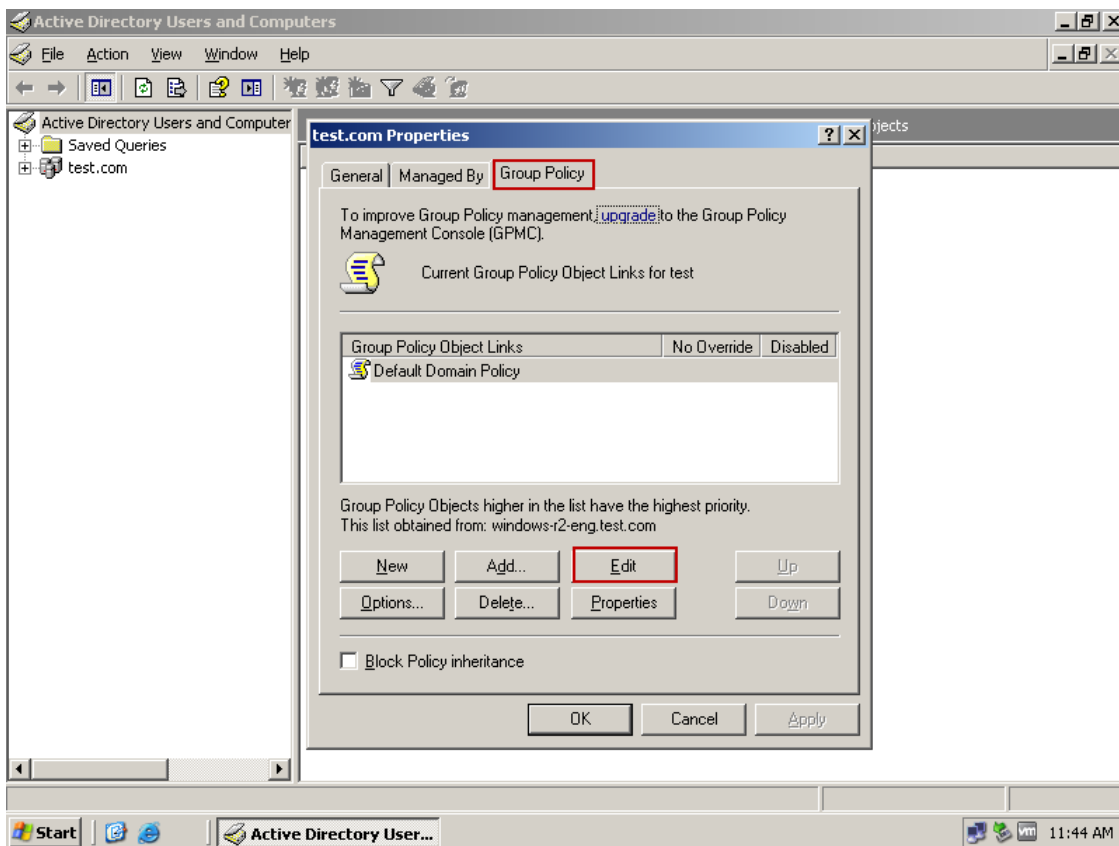
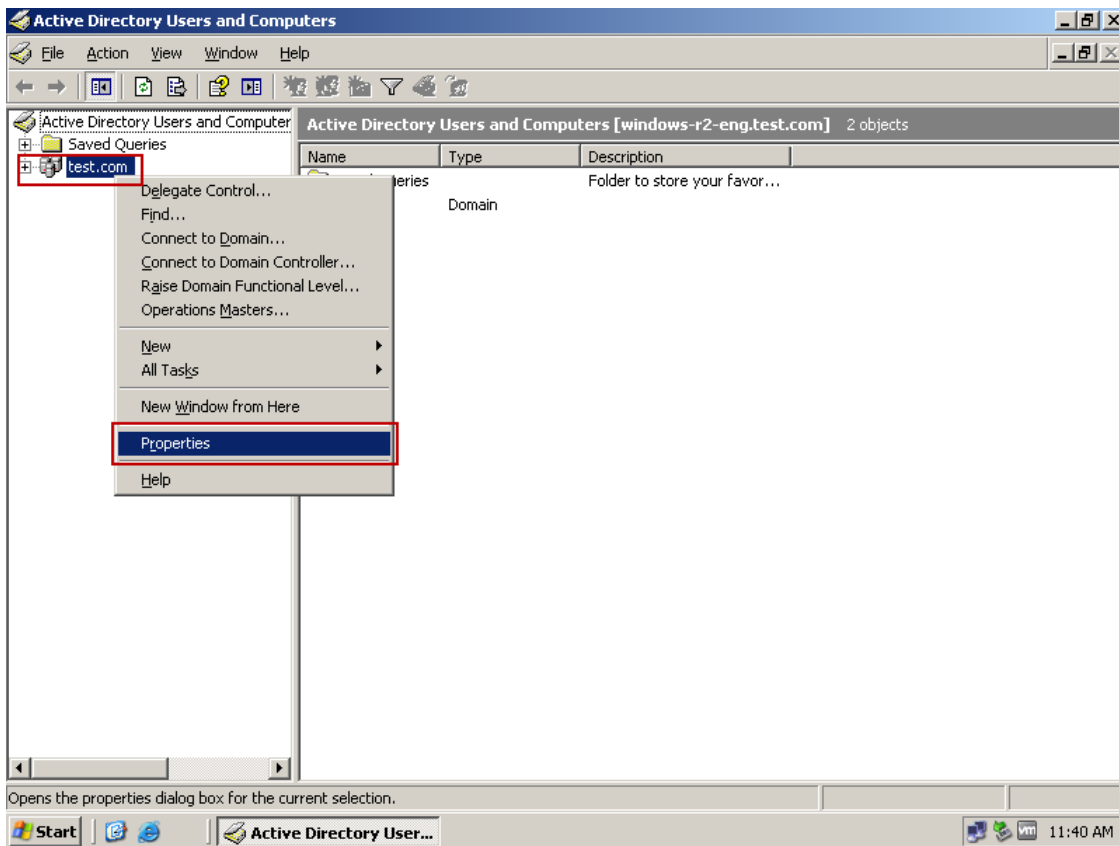
[Windows Server 2003 Setup] Windows Server 2003 R2 Enterprise Edition SP2

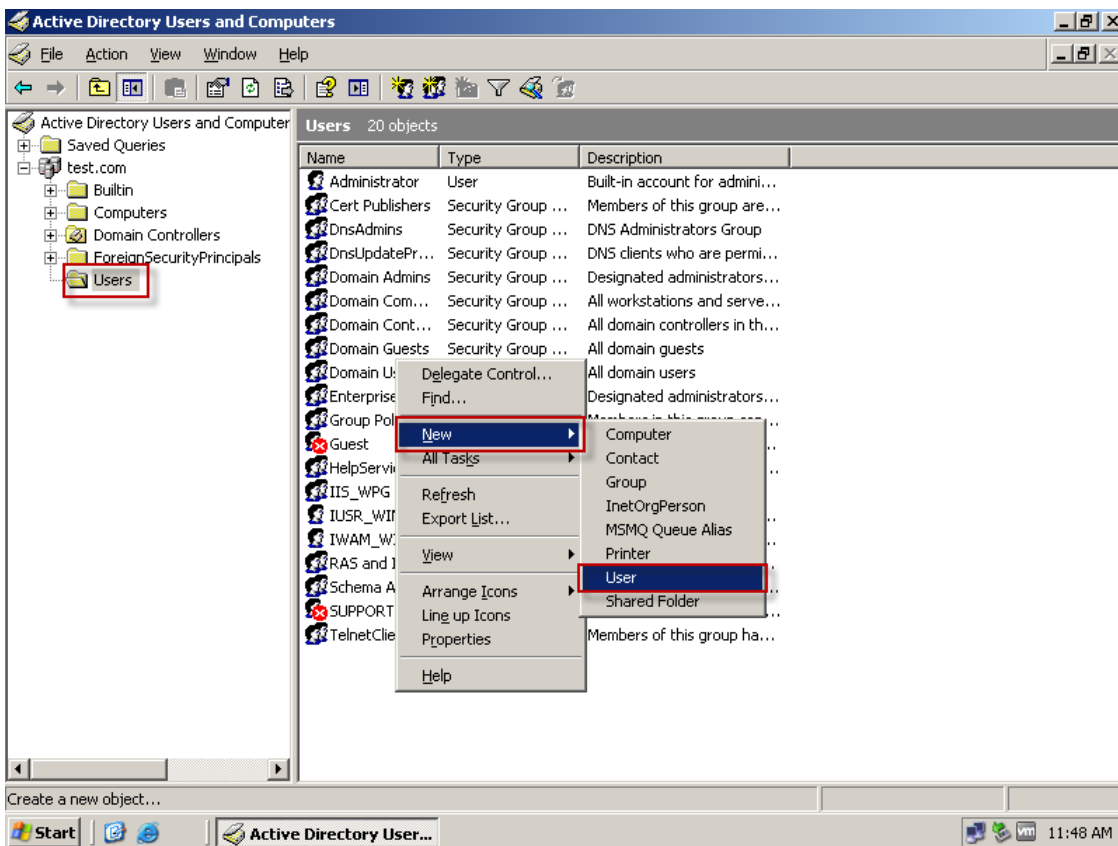
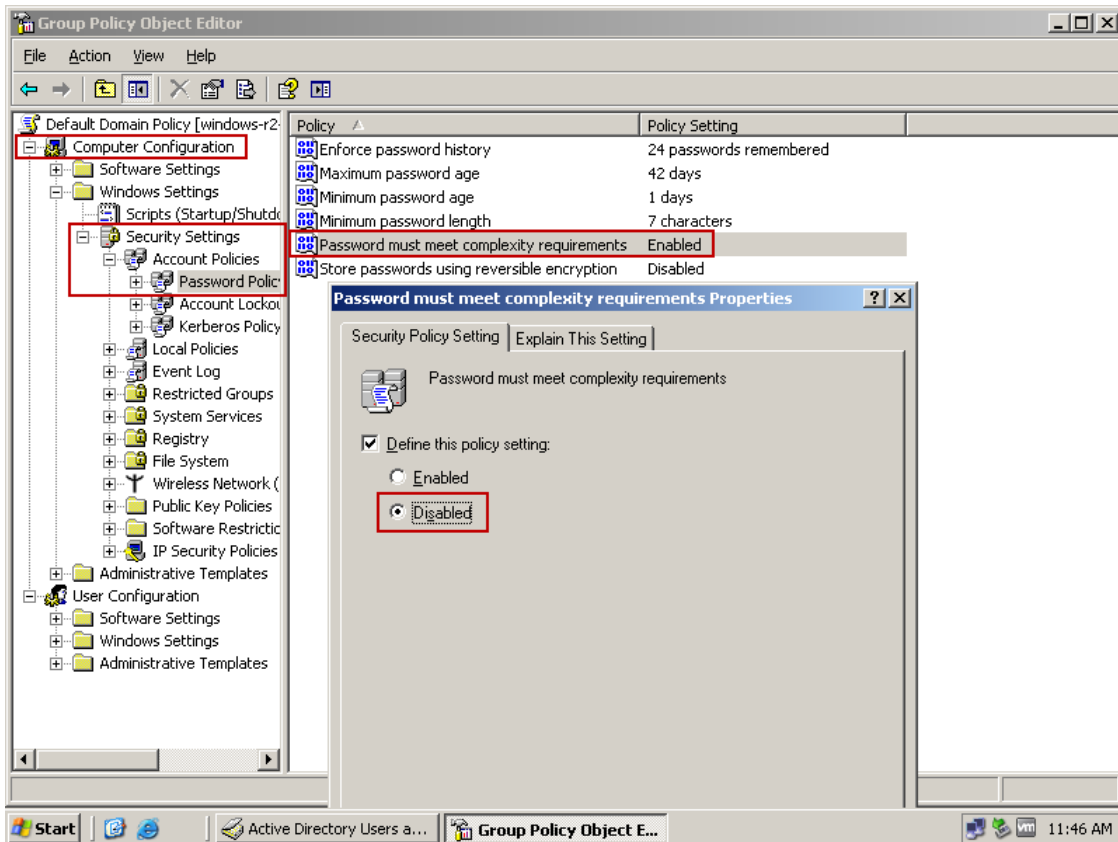
1. Setup Server and Preferred DNS server IP to 192.168.10.200/24 the Gateway is 192.168.10.1
2. Install Active Directory.
3. Install DNS Server
4. Start > Control Panel > Add or Remove Programs > Add/Remove Windows Components
Make sure those of service is already install.

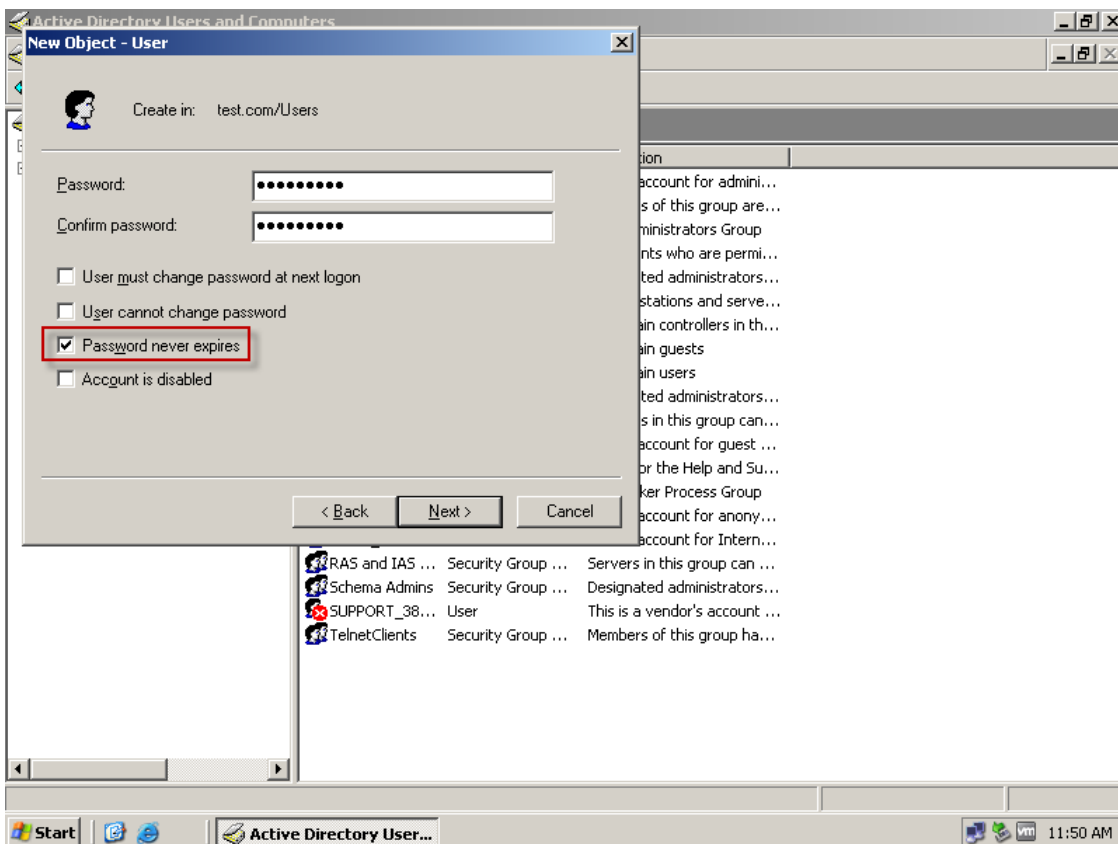
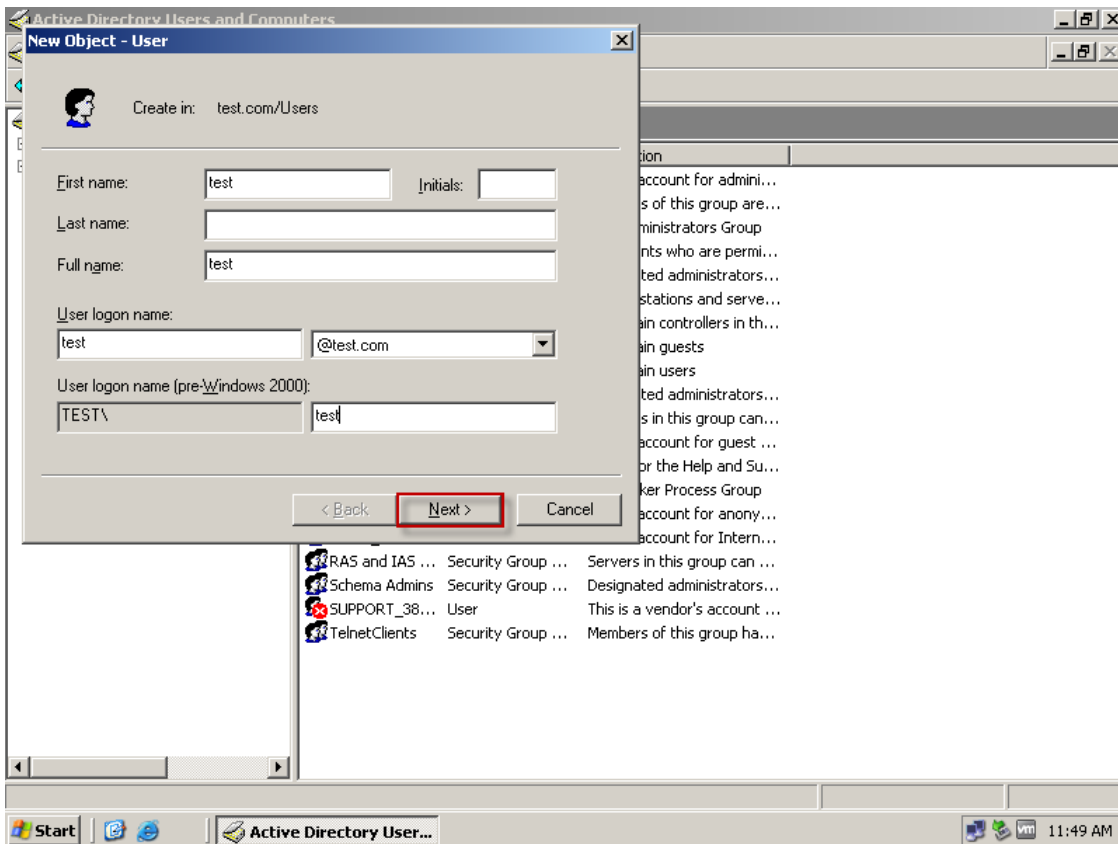
4.1 Application Server > IIS > World Wide Web Service > Remote Administration (HTML)

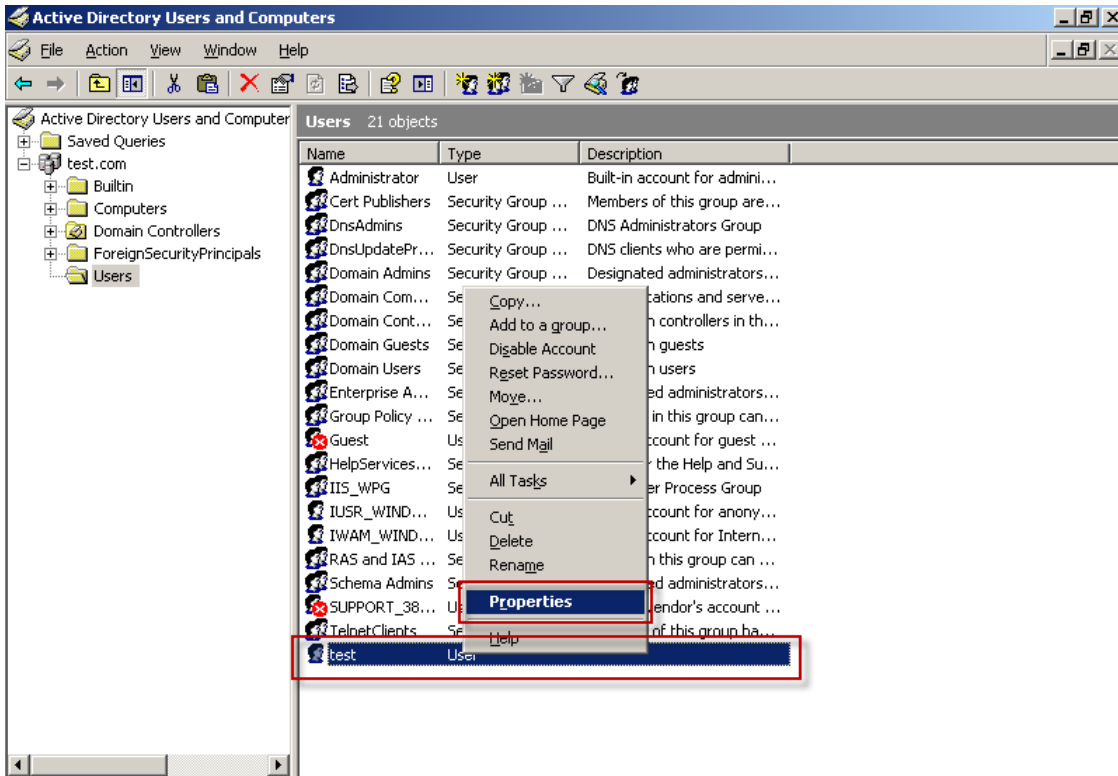
4.2 Network Services > Internet Authentication Service

5. Administrative Tools > Active Directory Users and Computers

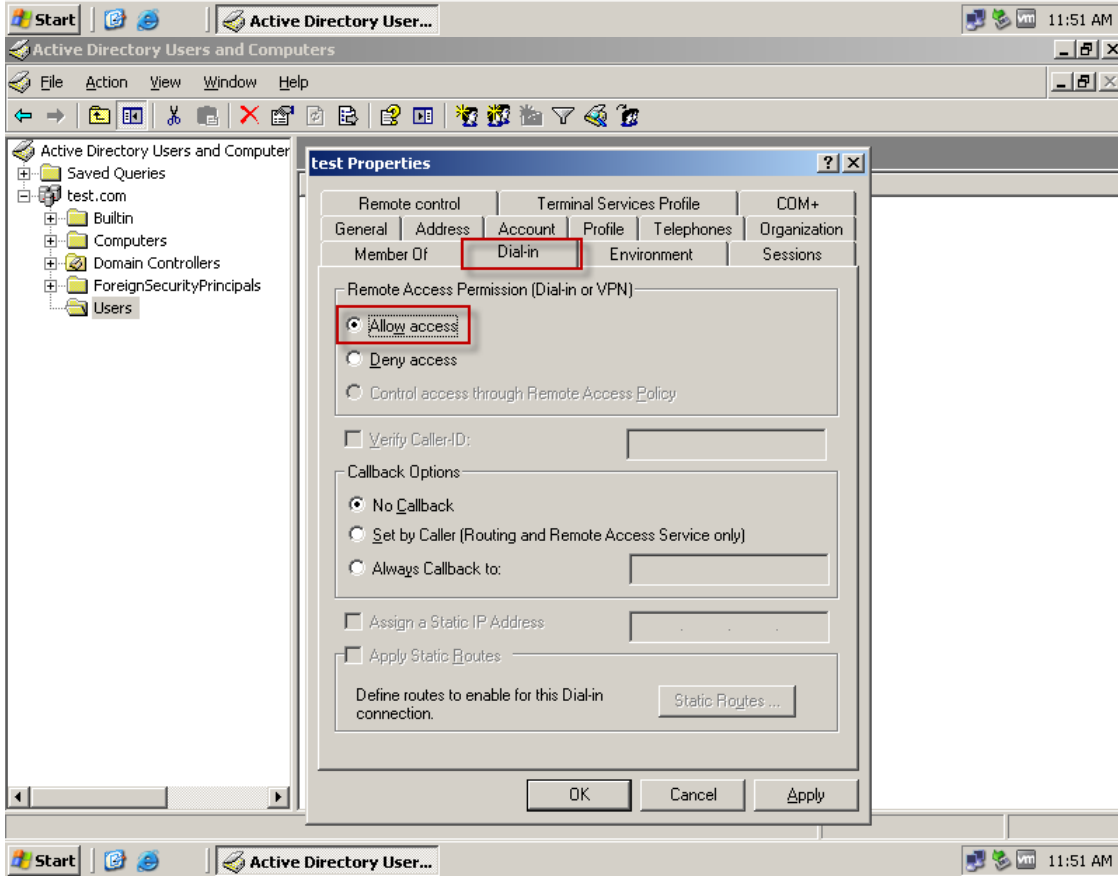




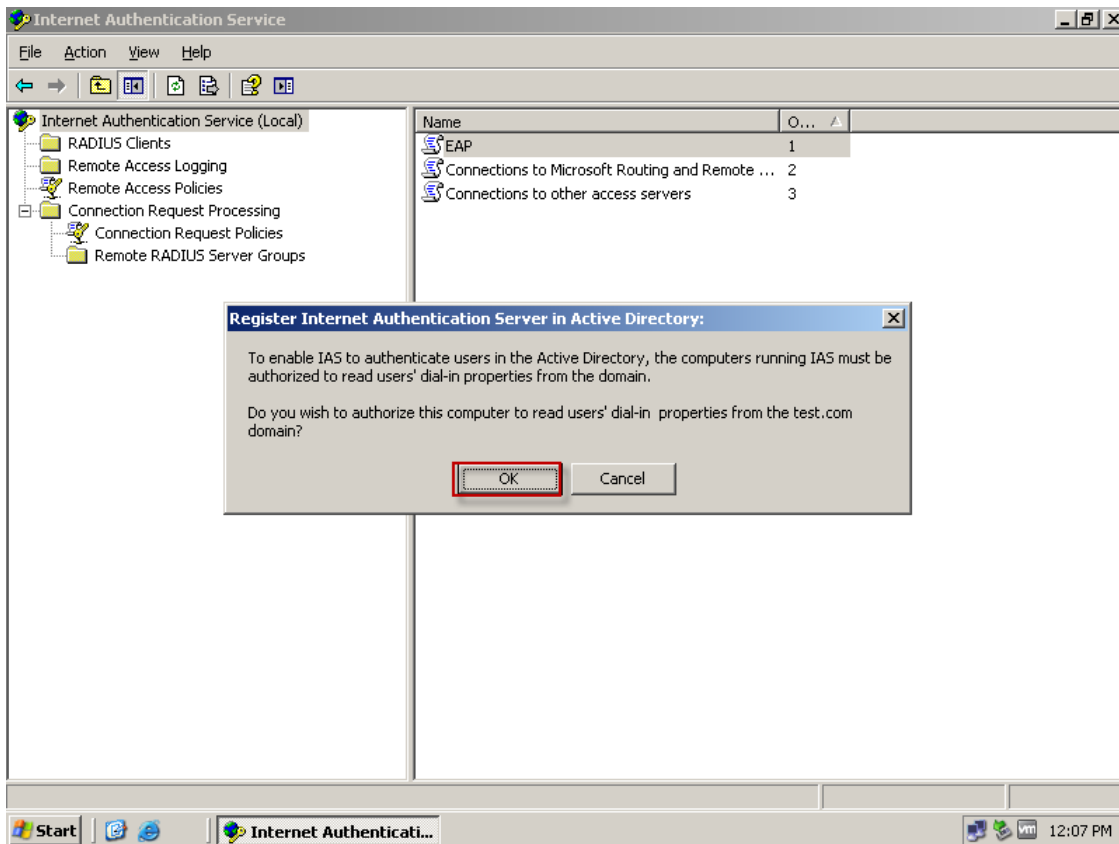
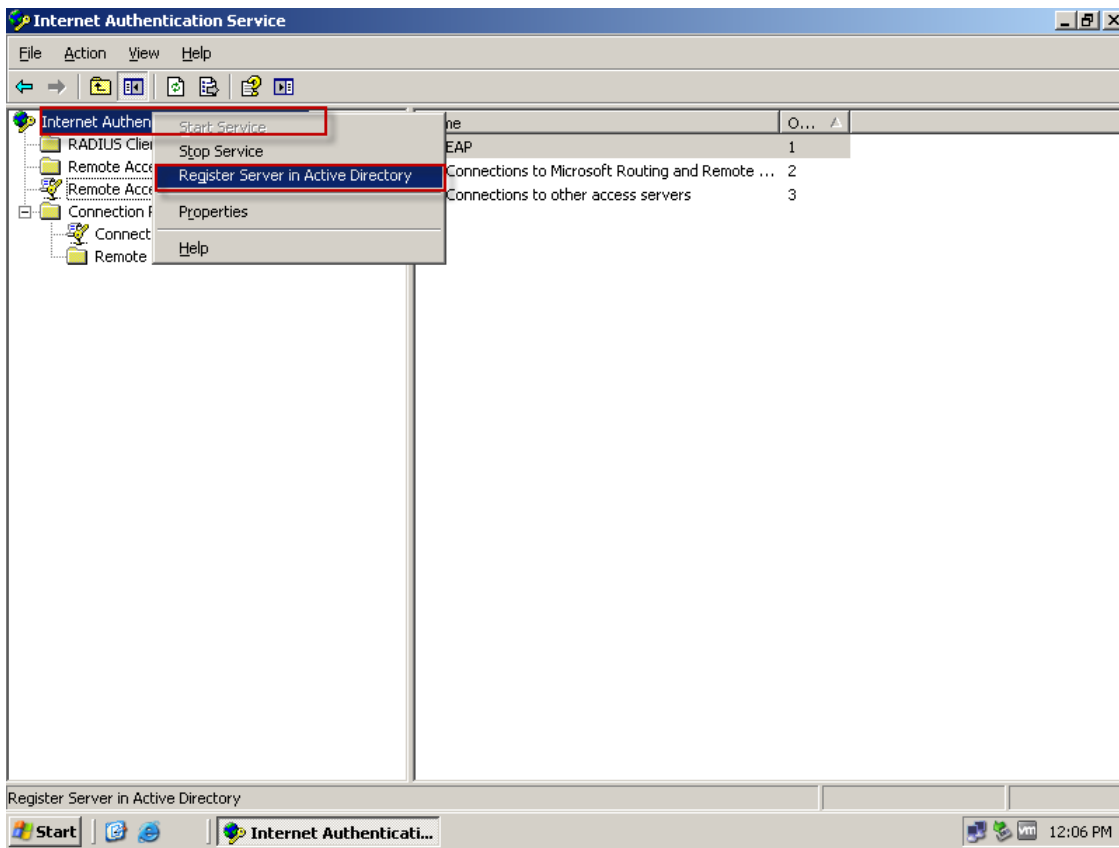


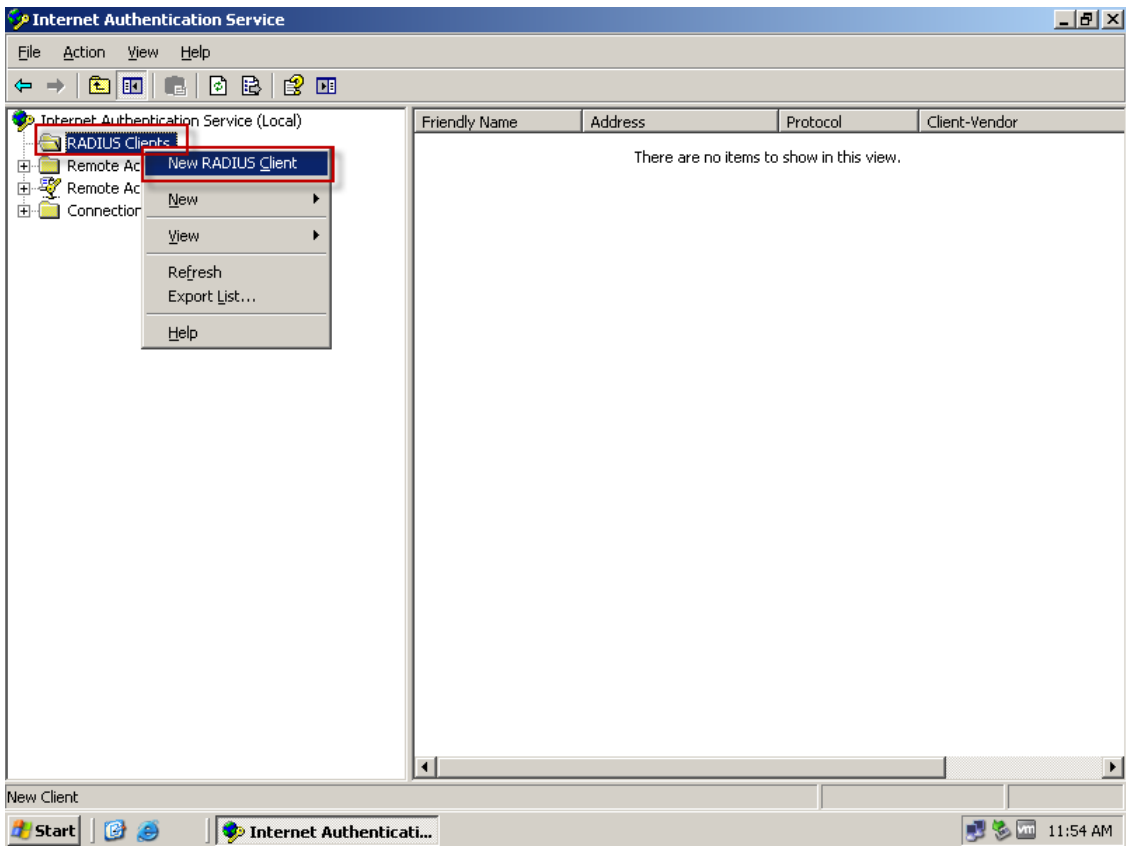
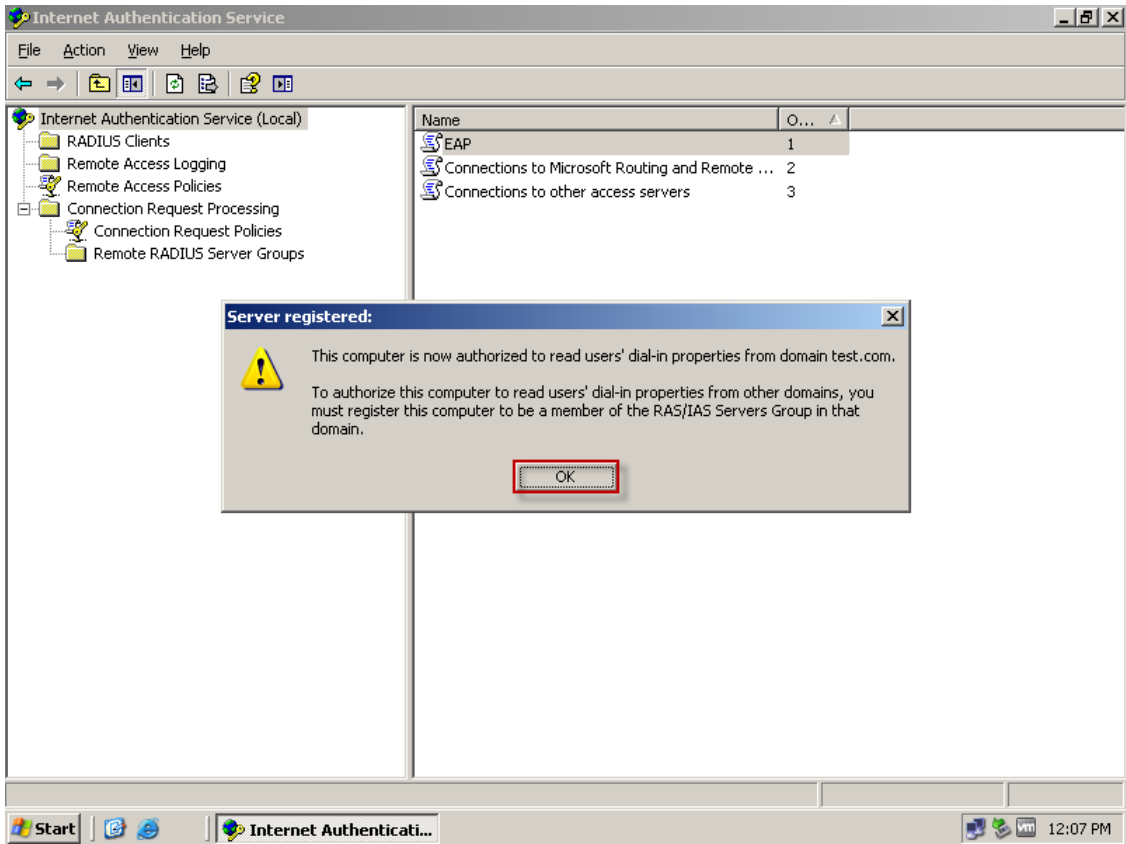


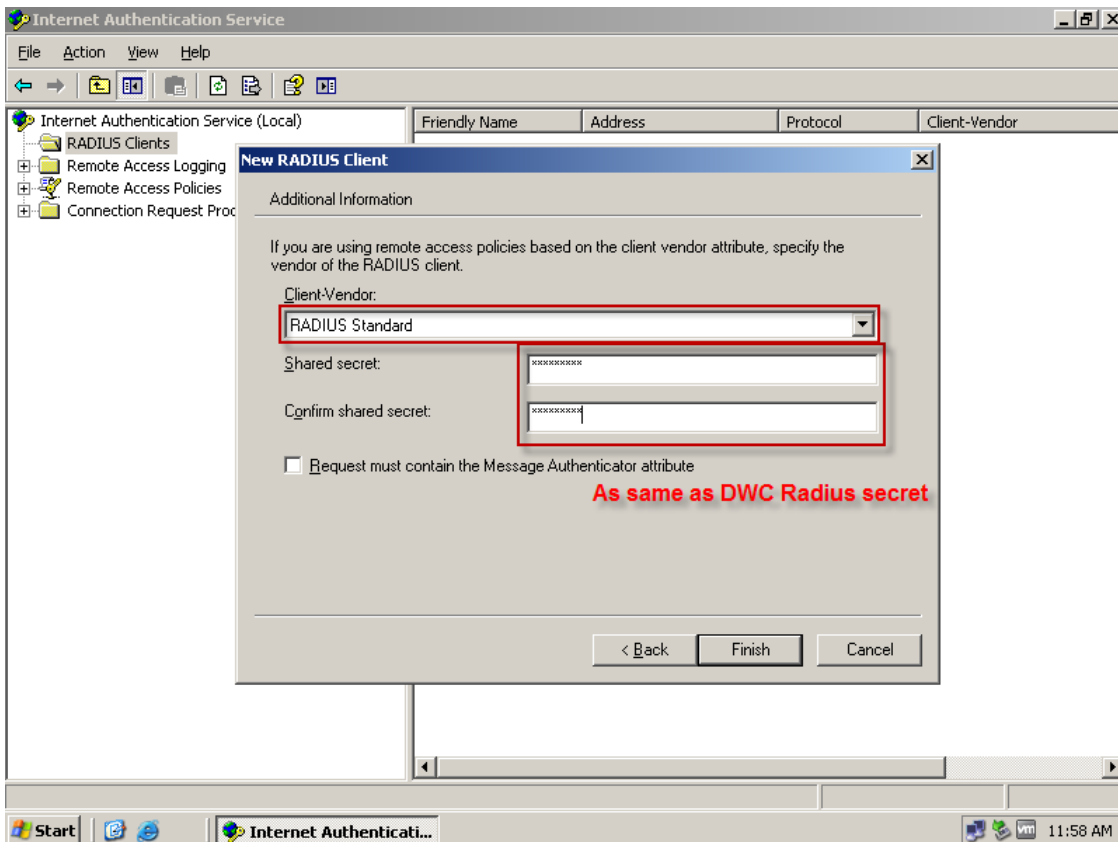
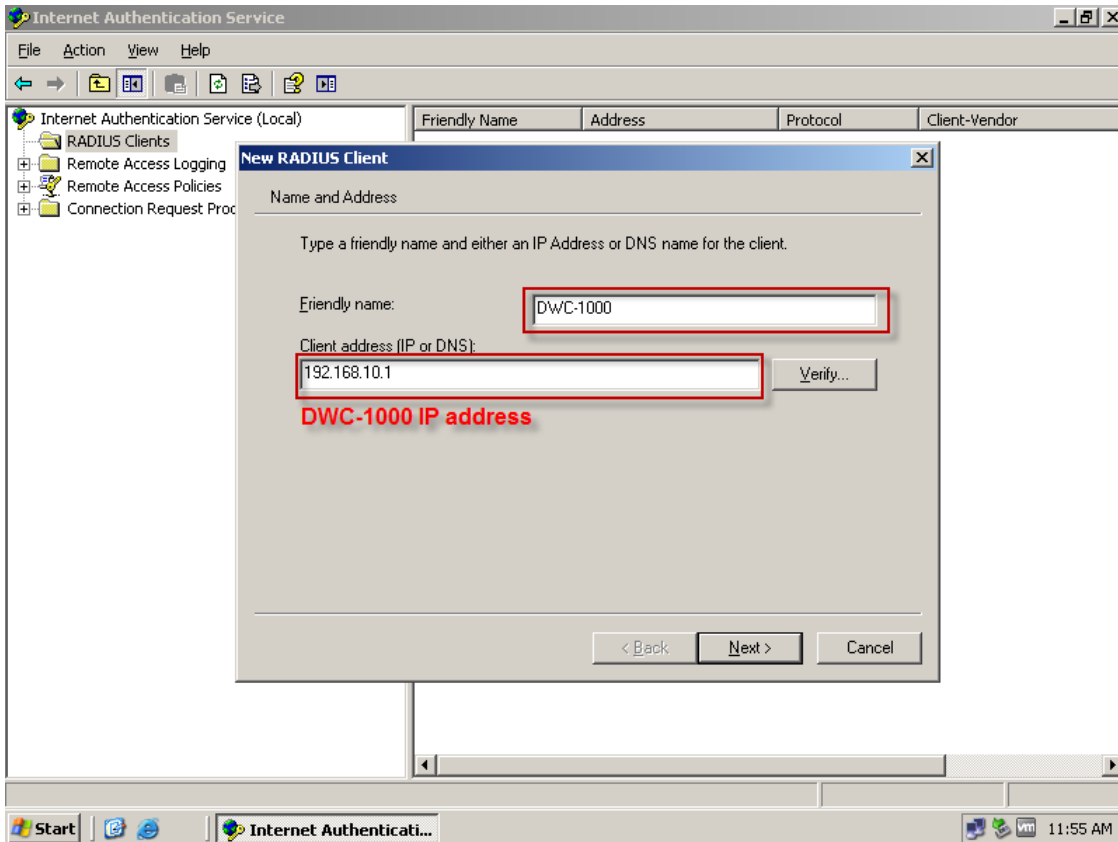
Opens the properties dialog box for the current selection.

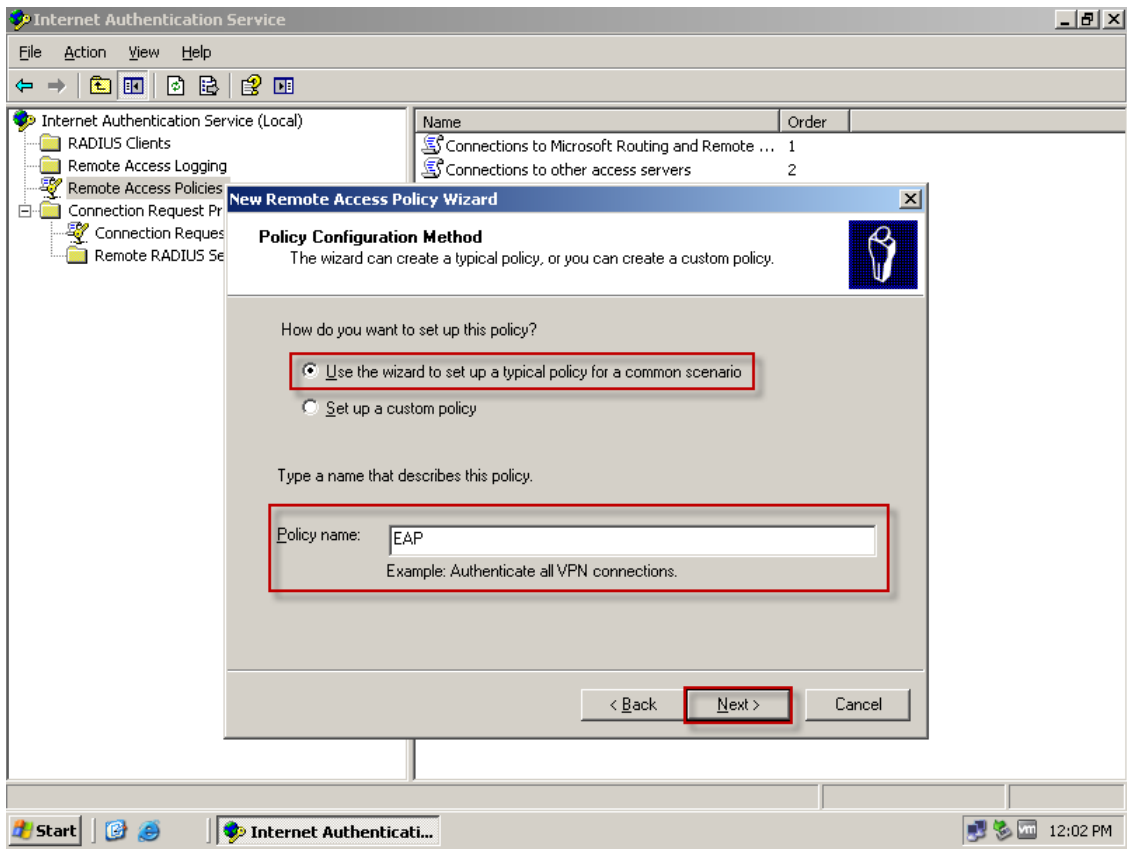
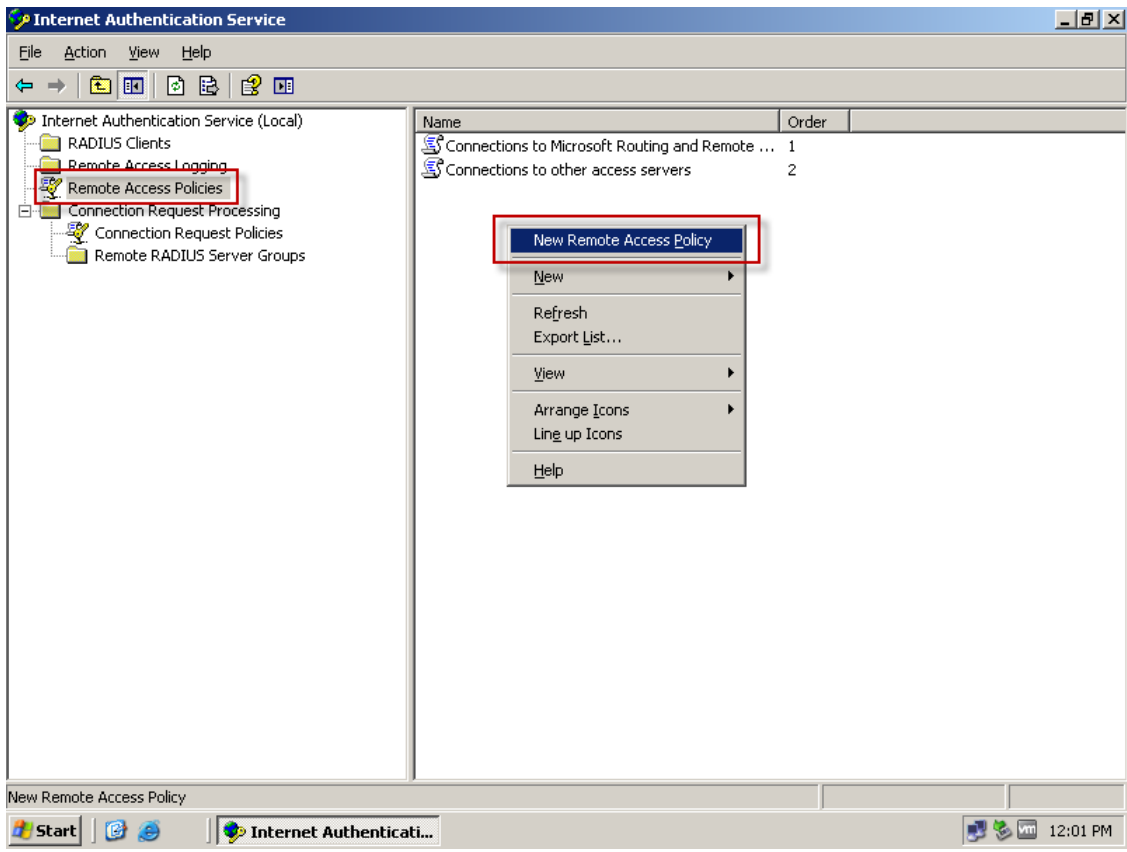


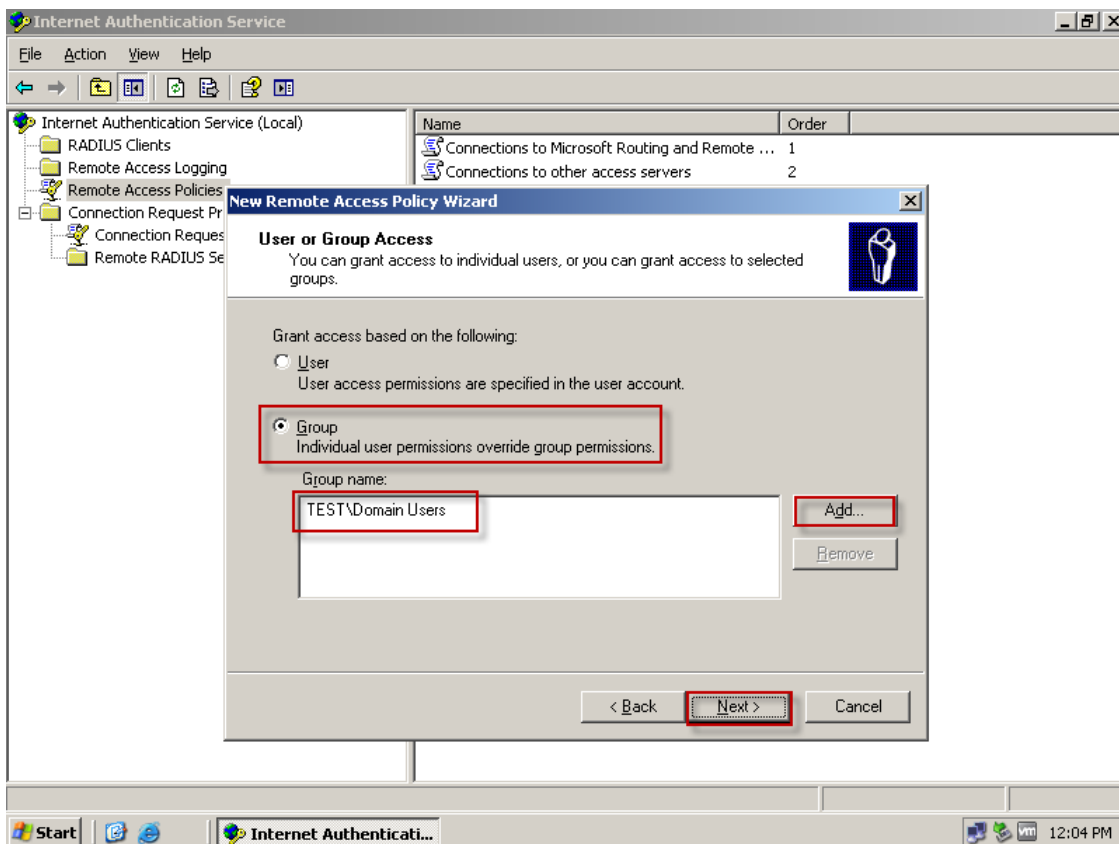
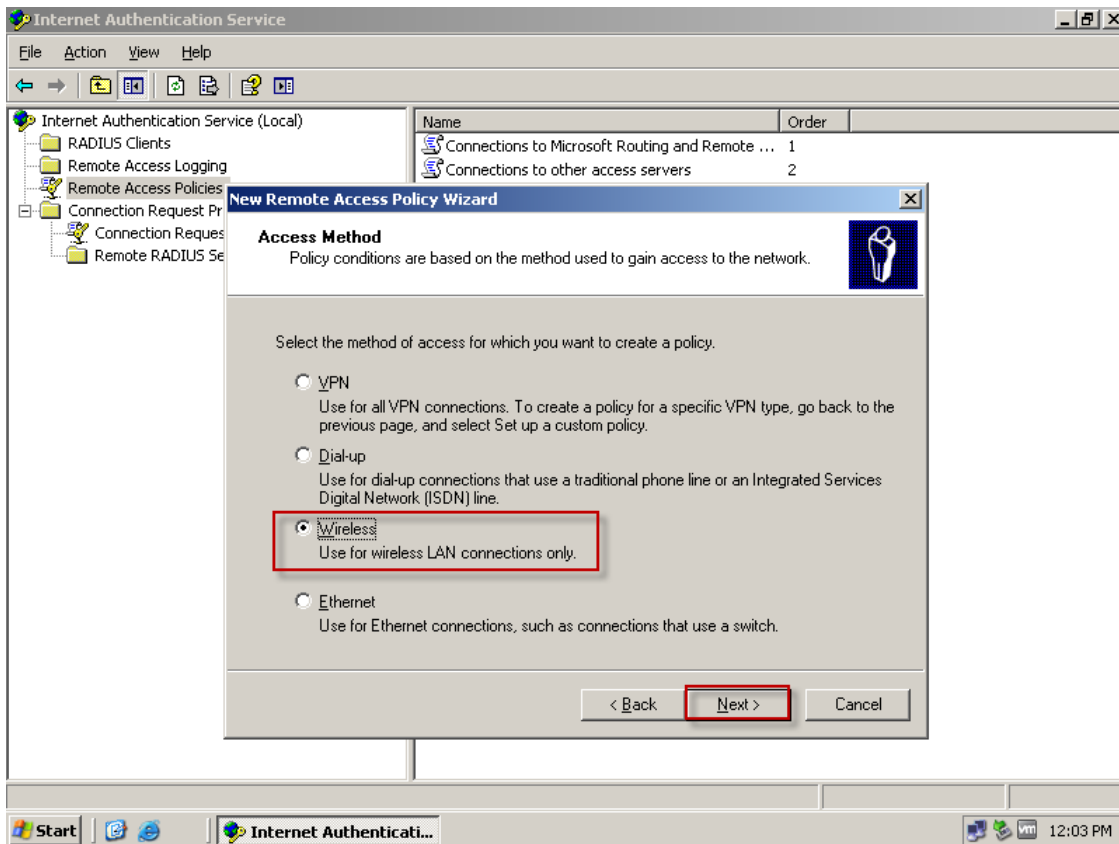
6. Administrative Tools > Internet Authentication Service



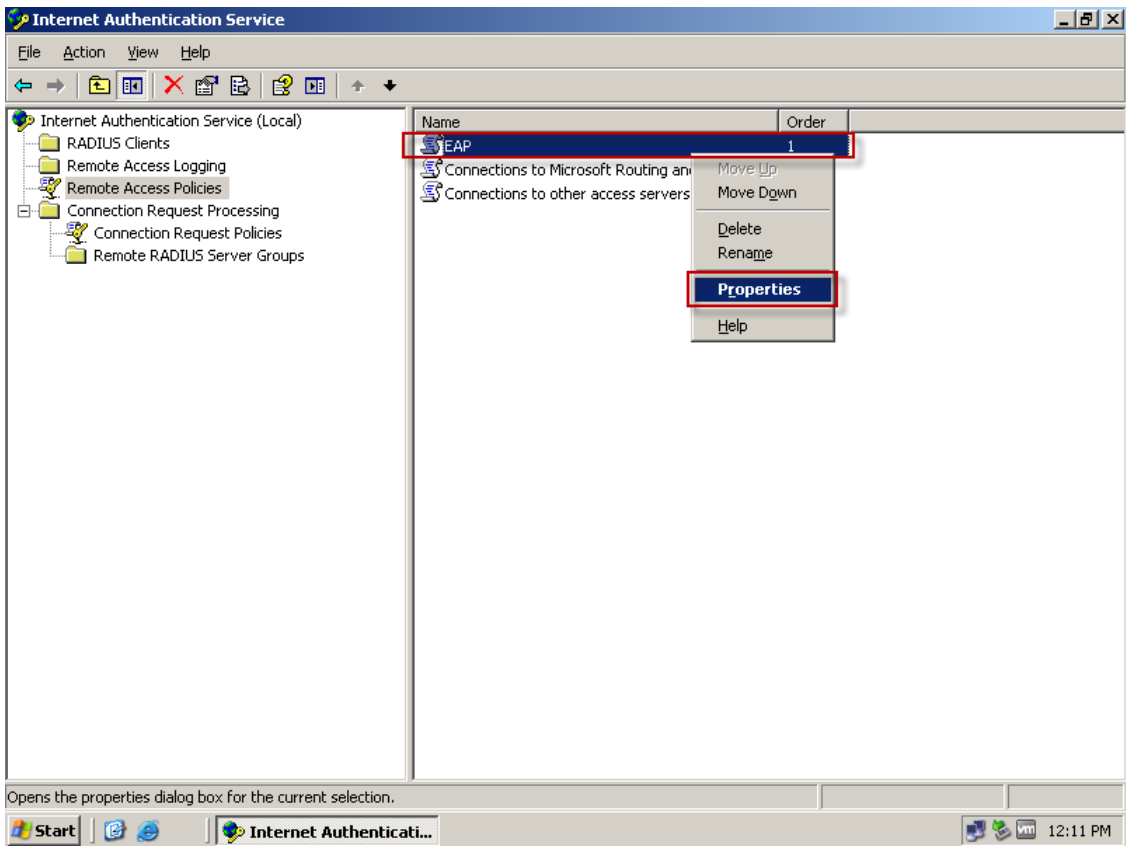
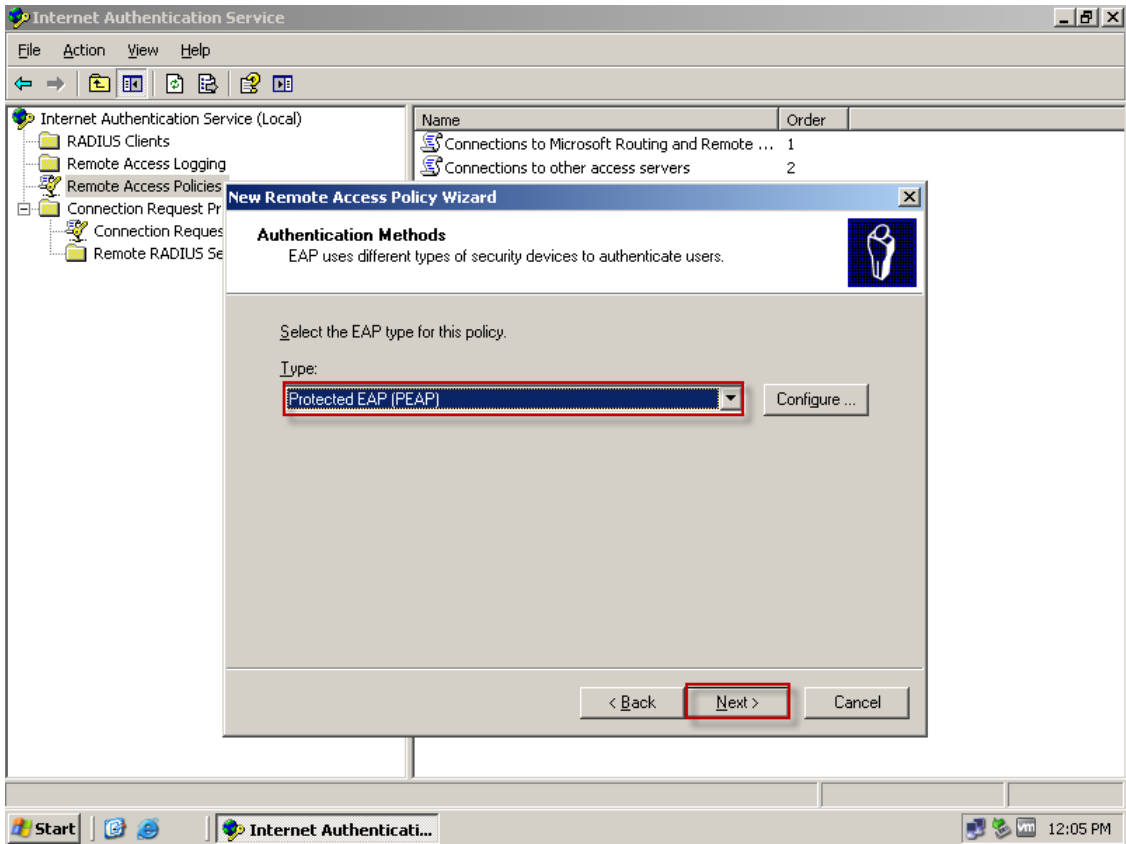


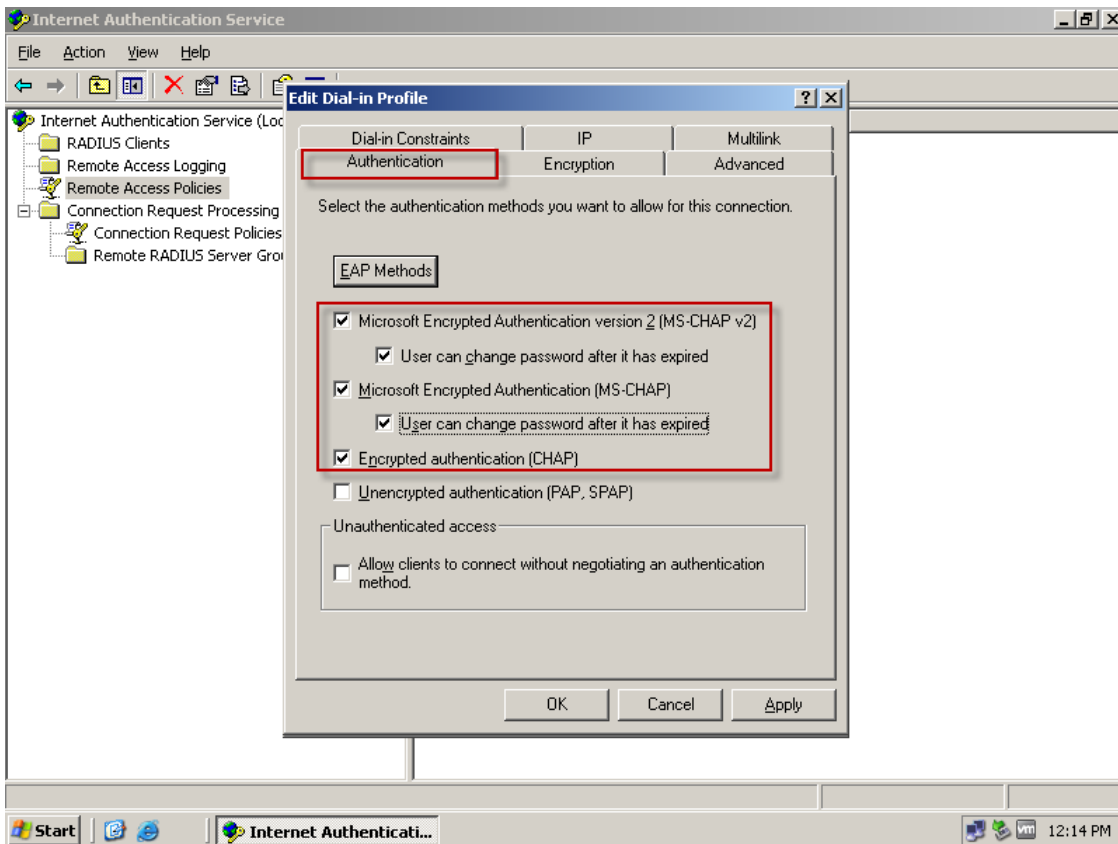
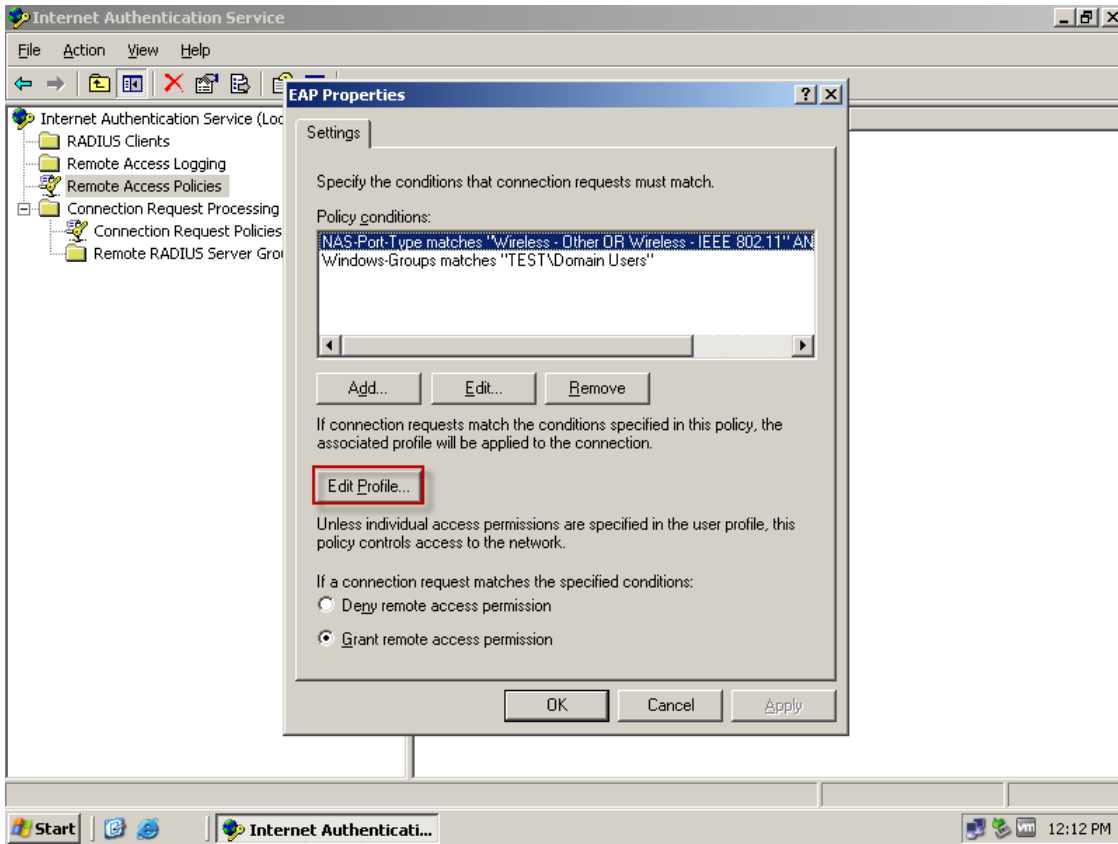


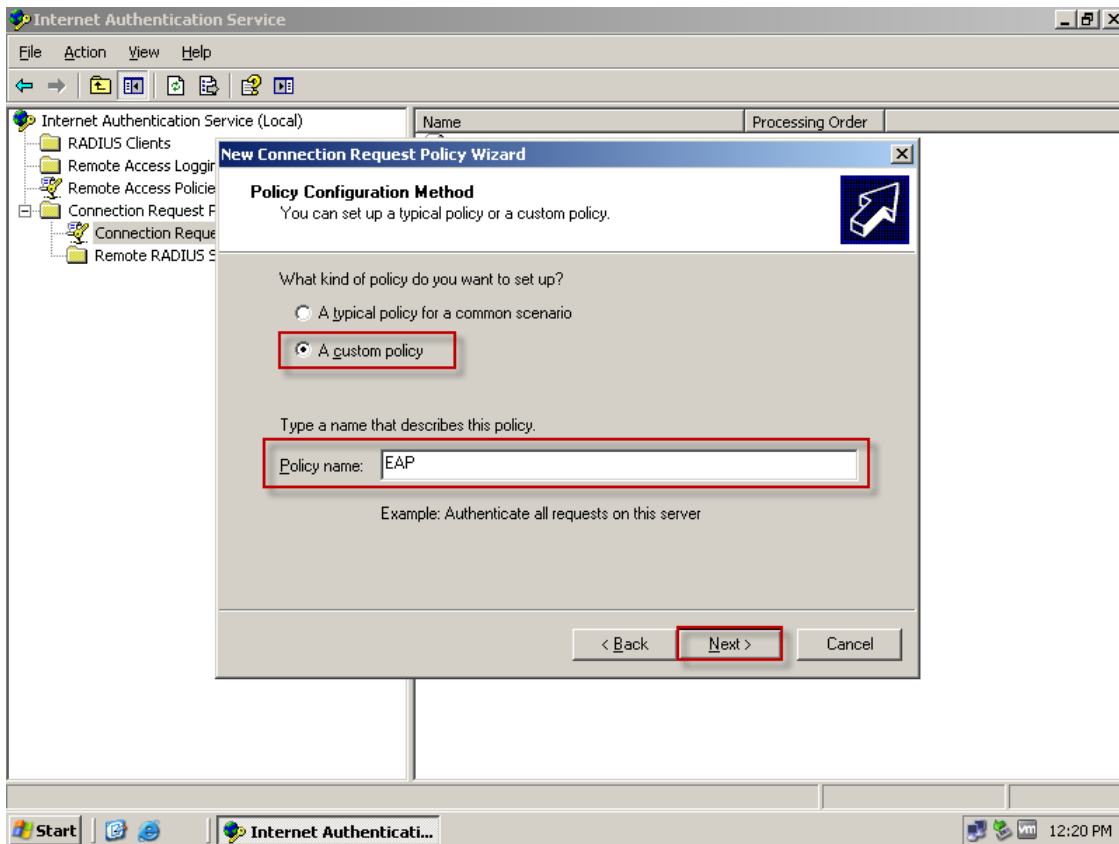
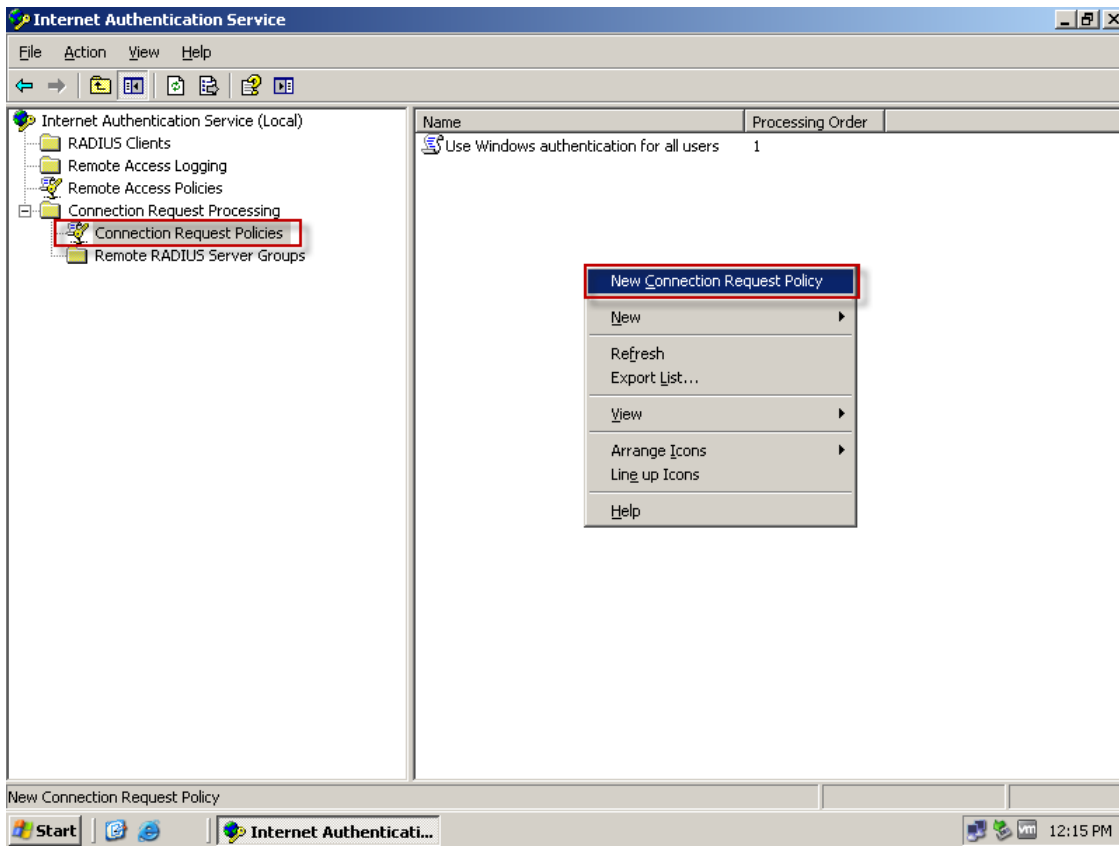


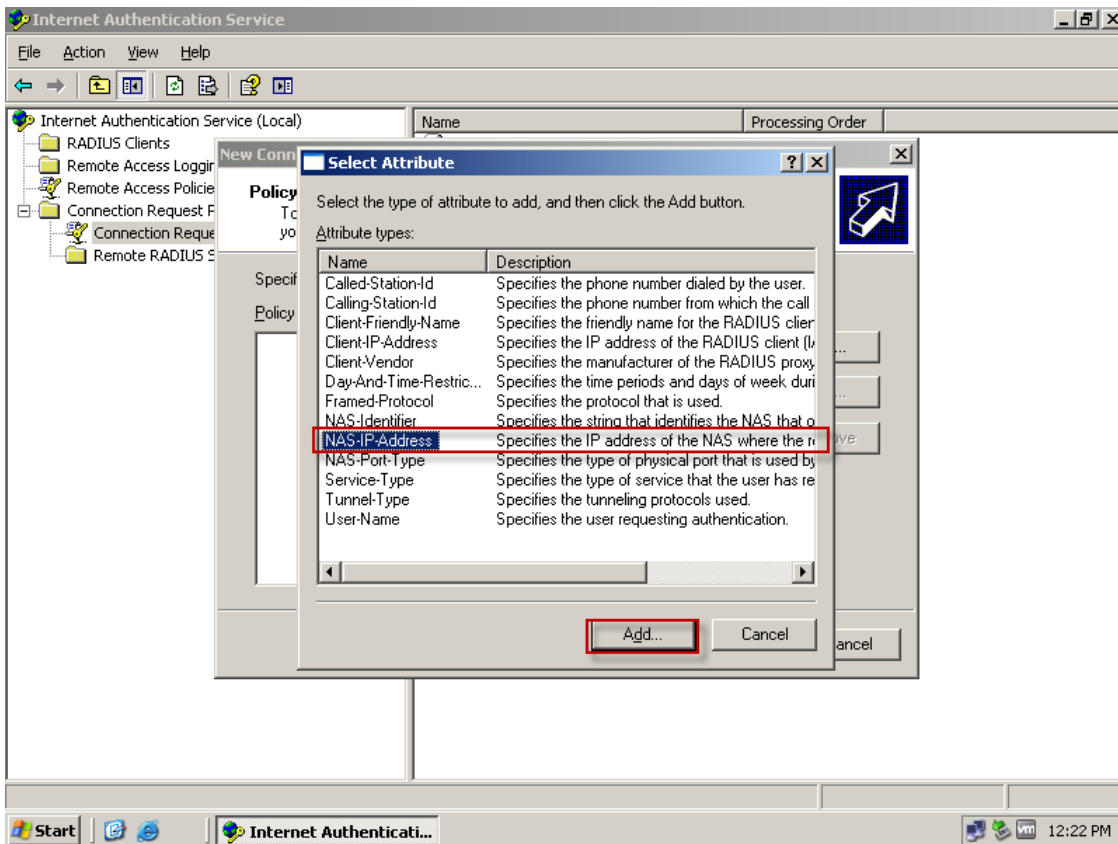
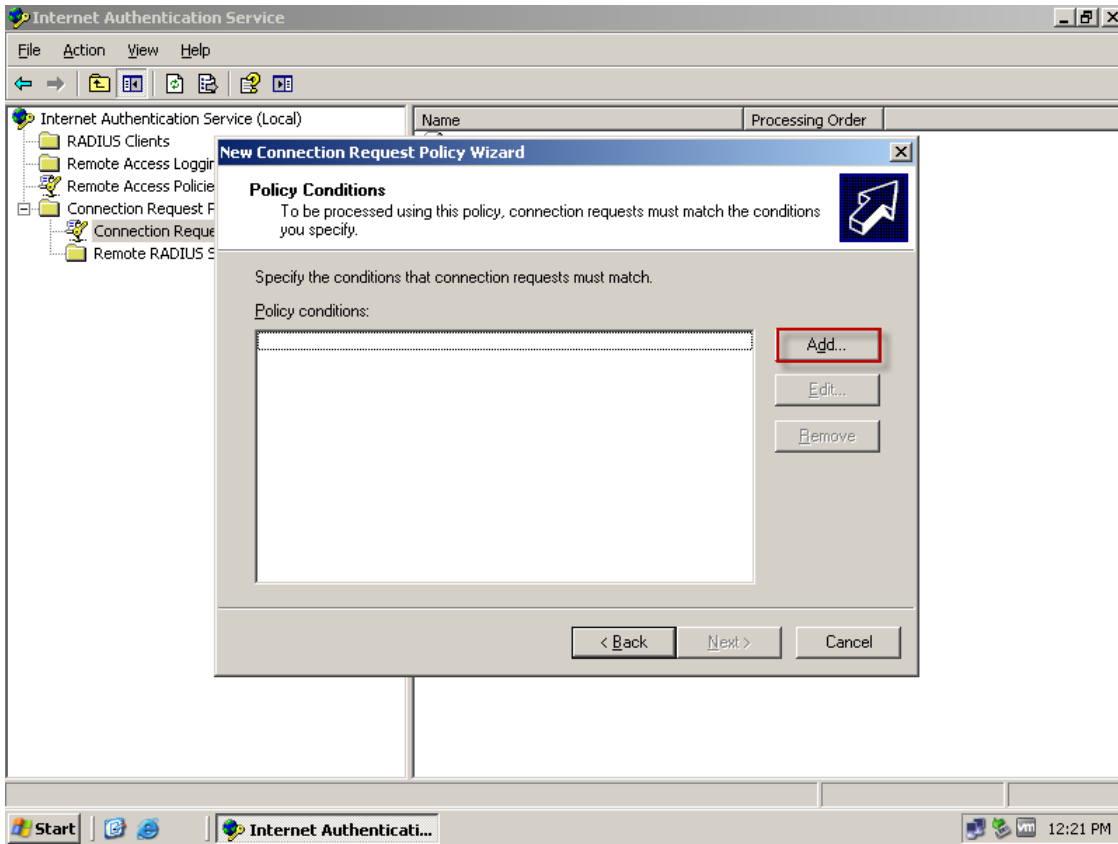


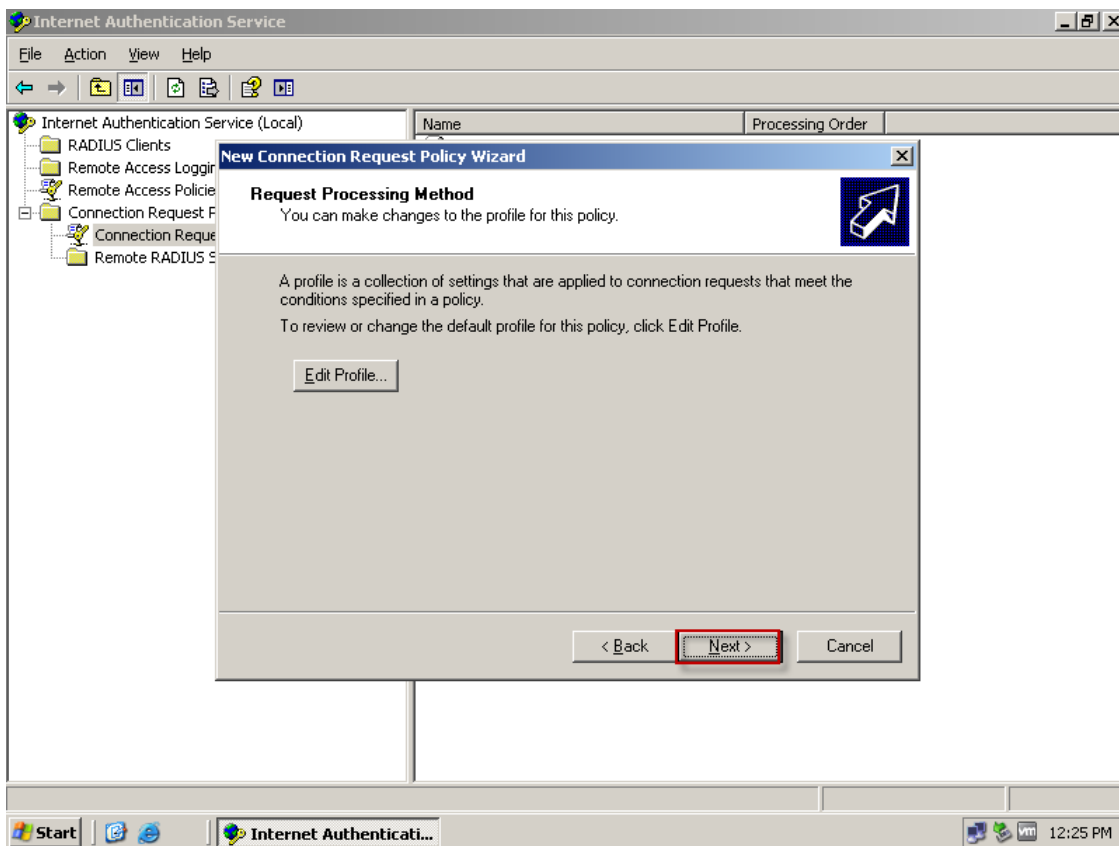
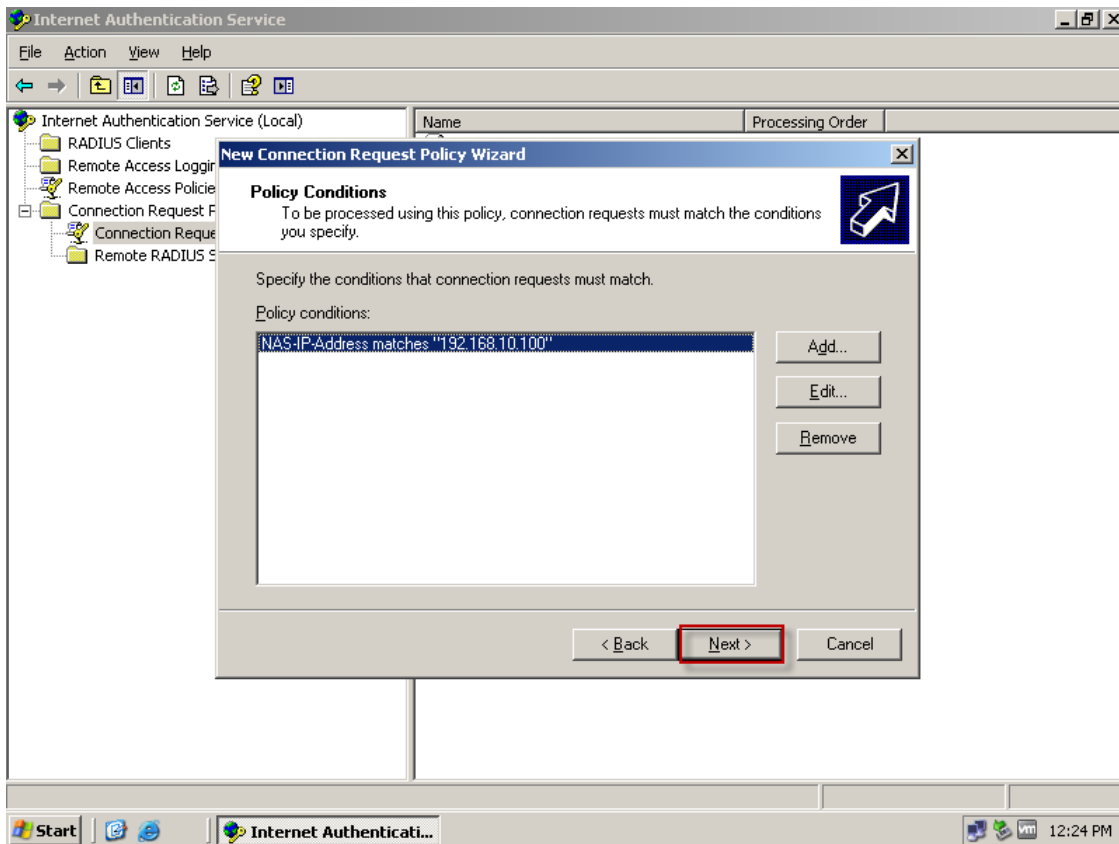
- The domain user account has default group are "Domain Users".



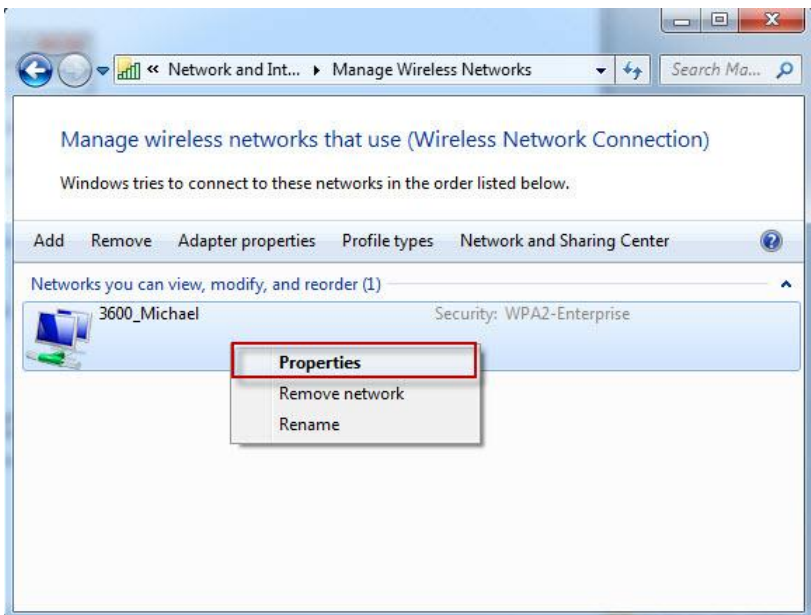
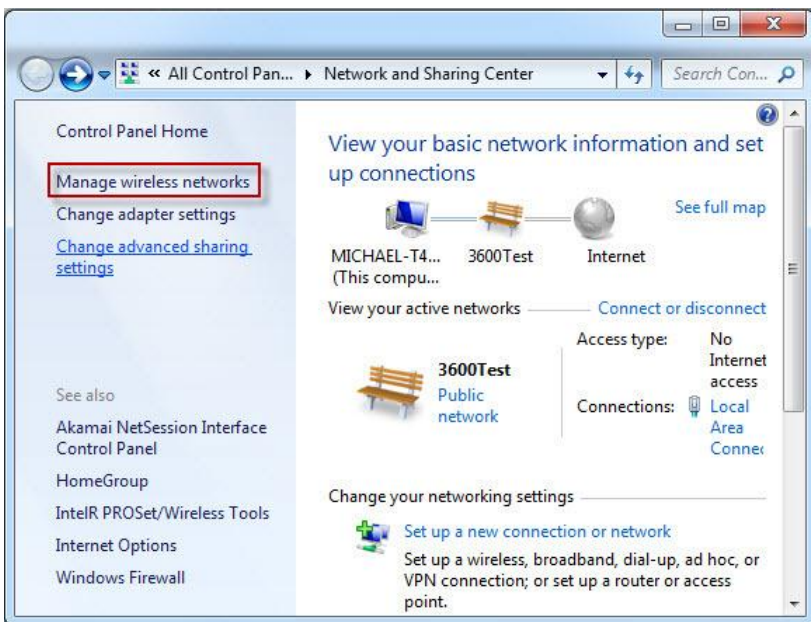




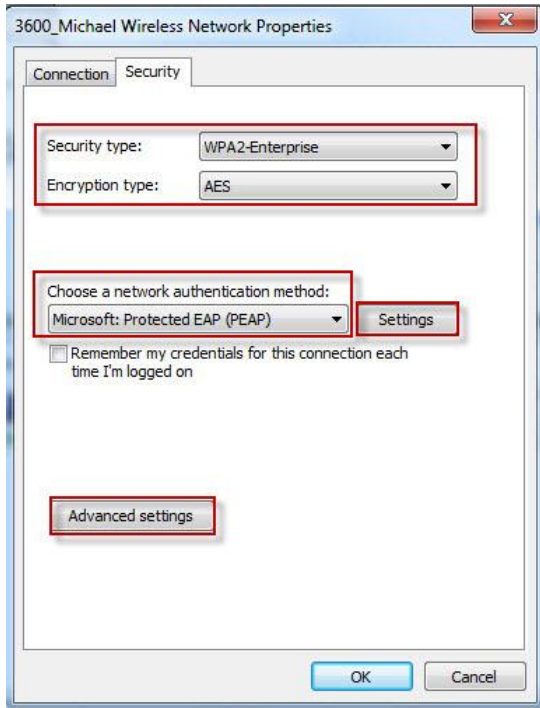




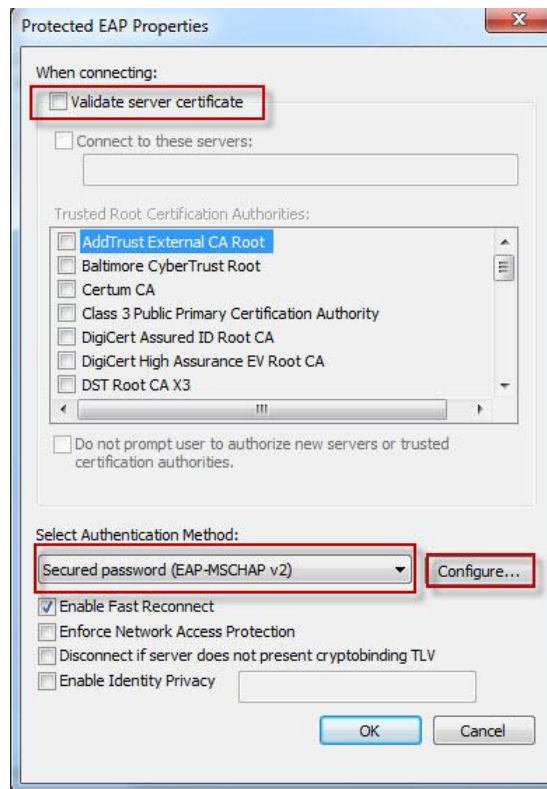
[Windows 7 Setup]



[Properties]



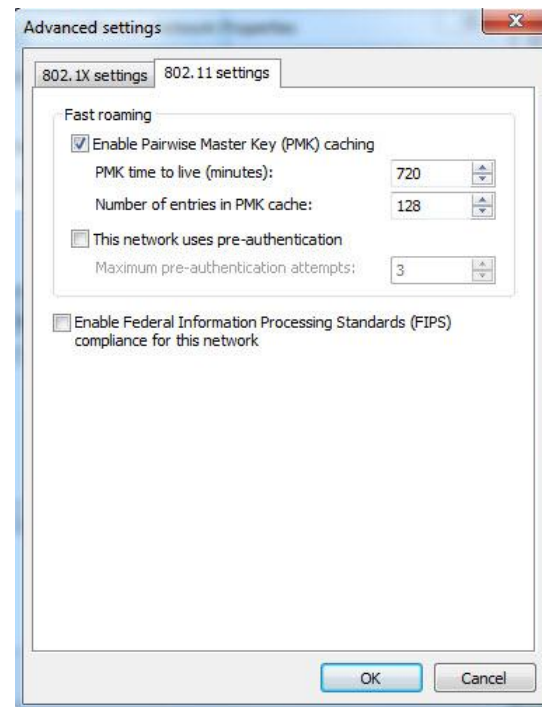
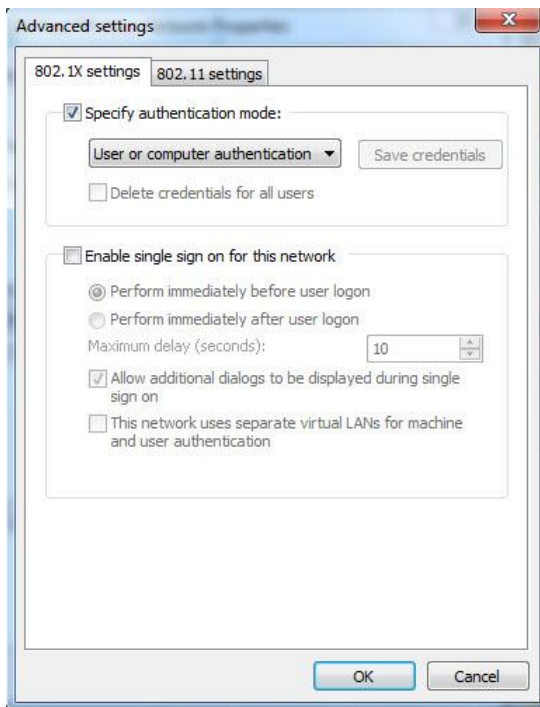
[Settings]



[Configure]



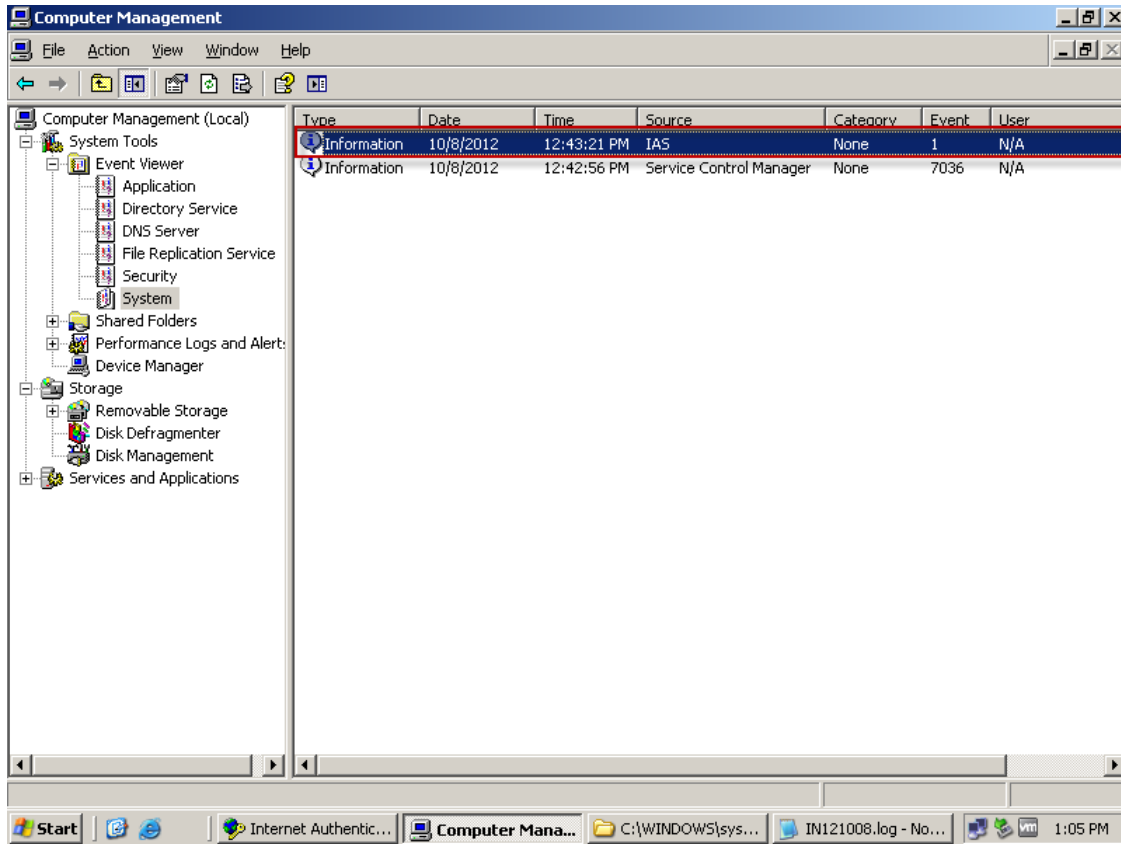
[Advanced Settings]



[Test]

When Wireless client succeed dial-in. You can use two way in Windows server to check the information.

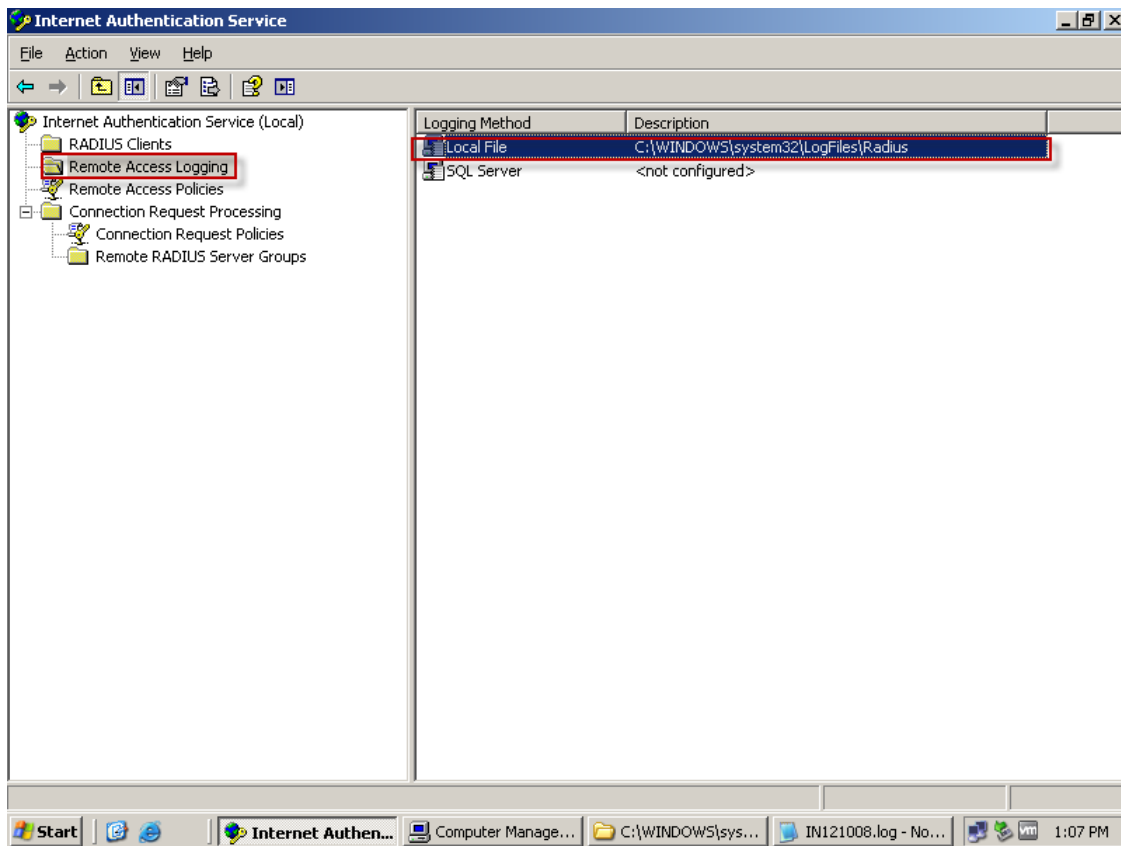
1. Computer Management > System Tools > Event Viewer > System



```
Event Type:      Information
Event Source:    IAS
Event Category:  None
Event ID:        1
Date:            10/8/2012
Time:            12:43:21 PM
User:            N/A
Computer:        WINDOWS-R2-ENG
Description:
User test was granted access.
Fully-Qualified-User-Name = test.com/Users/test
NAS-IP-Address = 192.168.10.1
NAS-Identifier = <not present>
Client-Friendly-Name = DWC-1000
Client-IP-Address = 192.168.10.1
Calling-Station-Identifier = E0-F8-47-49-13-81
NAS-Port-Type = wireless - IEEE 802.11
NAS-Port = 0
Proxy-Policy-Name = Use windows authentication for all users
Authentication-Provider = windows
Authentication-Server = <undetermined>
Policy-Name = EAP
Authentication-Type = PEAP
EAP-Type = Secured password (EAP-MSCHAP v2)

For more information, see Help and Support Center at http://go.microsoft.com/fwlink/events.asp.
Data:
0000: 00 00 00 00      ....
```

2. Enable Internet Authentication Service Log.



```
192.168.10.1,test,10/08/2012,12:43:21,IAS,WINDOWS-R2-ENG,4128,DWC-1000,4,192.168.10.1,5,0,30,CC-B2-55-83-30-20:3600_Michael,31,E0-F8-47-49-13-81,12,1400,61,19,77,CONNECT 0Mbps 802.11g,4108,192.168.10.1,4116,0,4155,1,4154,Use Windows authentication for all users,4129,TEST\test,4149,EAP,25,311 1 192.168.10.200 10/08/2012 18:37:24 57,4132,Secured password (EAP-MSCHAP v2),4127,11,4130,test.com/Users/test,4136,1,4142,0
```

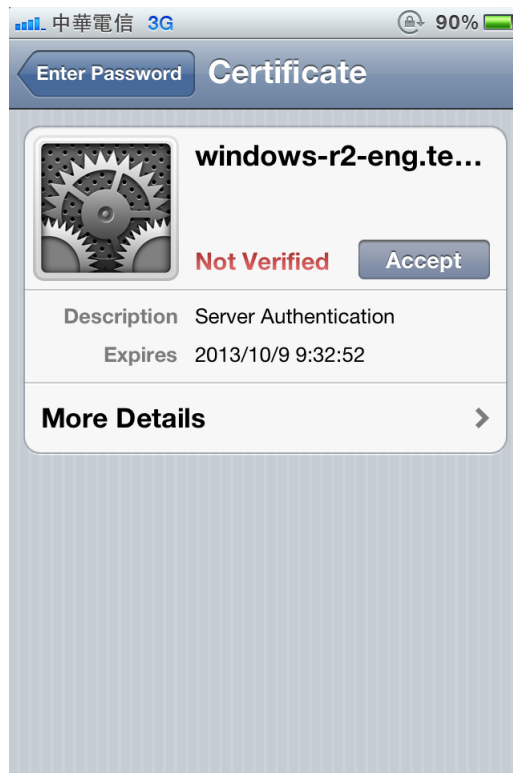
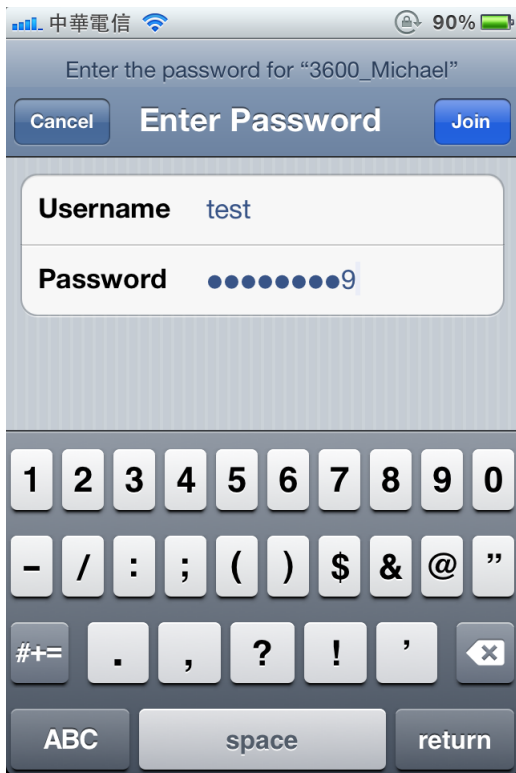
```
192.168.10.1,test,10/08/2012,12:43:21,IAS,WINDOWS-R2-ENG,4128,DWC-1000,25,311 1 192.168.10.200 10/08/2012 18:37:24 57,4132,Secured password (EAP-MSCHAP v2),4127,11,8100,0,4108,192.168.10.1,4116,0,4155,1,4154,Use Windows authentication for all users,4129,TEST\test,4149,EAP,6,2,4130,test.com/Users/test,4120,0x01544553,4136,2,4142,0
```

- The iPhone Wireless can work in this topology too.

Settings > Wi-Fi >

[Accept]

Type in domain account and password

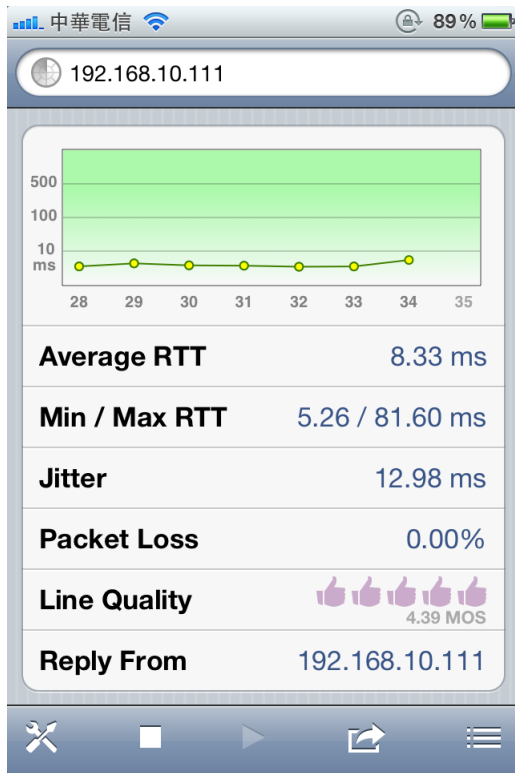


[Connect Success]

[Use "Fing" App to screen Wireless Network]



[Use "Ping Analyzer" app to ping network device]



END