INFO6003 Lab-03 Domain Prep & WSUS GPO

Setup S2008R2 , Win10 and W7 VMs

For this lab we will need the S2008R2.7z, W7.7z VM images and Windows 10
If you came to class, or read the news for INFO6003, you will already have these images

- o The images can be found: on Sharepoint
- o Semester 1
- o Save the images to your 7Zip-Images folder then extract them to your ISM\INFO6003 folder.
- o Open the VMs and put them in your VMWare, INFO6003 folder.
- o If you have enough memory you could go into the VM Settings and increase the amount of Memory allocated to the VM (2048, 3072, etc.)
- o Configure the following settings:
    - o **S2008R2 VM** with an IP of **10.0.0.60/24** and a hostname of **2008-FOLusername**
    - o **W7 VM** with an IP of **10.0.0.50/24** and a hostname of **W7-FOLusername**
    - o **W10 VM** with an IP of **10.0.0.40/24** and a hostname of **Win10-FOLusername**
    - o Confirm connectivity by pinging between both VMs (Are they on the same network? Is the W7 firewall off?)
        - ▪ Put both VMs need to be on the **primary host-only network**
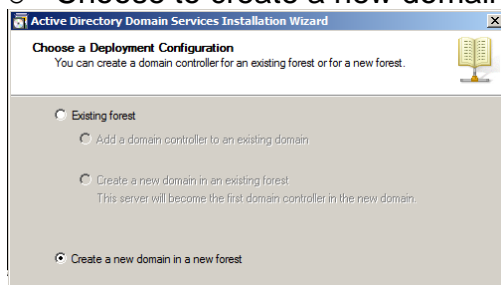
Create a Windows Domain and Forest

- o Open a command prompt on S2008R2 and enter the command **dcpromo** to initiate the creation of your domain.
- o You will be presented with the following window: **choose next.**

- o Select next on the Operating System Compatibility warning.
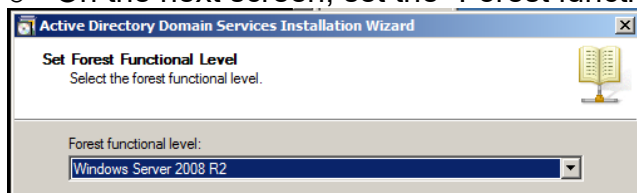- o Choose to automatically correct the DNS problem

o Choose to create a new domain in a **new forest**.

o When asked for the FQDN (Fully Qualified Domain Name) for the forest, enter **your last name** with no spaces followed by .ca then click next.
o For example: **smiley.ca**
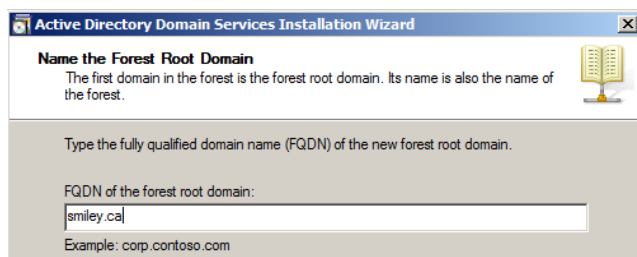
o On the next screen, set the "Forest functional level" to **"Windows server 2008 R2"**

o Click **next** on the "Additional Domain Controller Options" page. This will install DNS and the Global Catalog on this server.
o When warned about a DNS delegation, select yes again. We are getting this error because we don't have any DNS server yet.
o Accept the default database locations used by the domain controller.
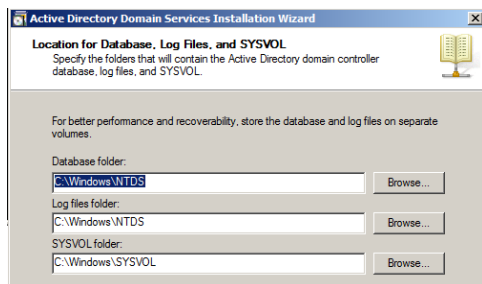
o When asked for a restore mode password, use the password: **Windows1.**
o Click next on the summary screen to complete the installation.

When prompted, click Finish and restart the virtual machine.

o When you log back in your will likely be required to change your password. If this is the case, change it to **Windows12**
o If you change it to something else, make sure you write it down, or you may find yourself rebuilding this VM.

Create Accounts on Server2008

o   Open **Administrative Tools** (You can search for this in the start menu) and go into **Active Directory Users and Computers** and then **Users**.

o   Right click below the existing users to create a new user named **User-Admin**, set the password to **Windows1**, clear the checkbox that makes the user change password at next logon and then **select the checkbox** so that the password never expires.

o   Why is this a bad idea?

o   Create a second user named **User-Limited**, set the password to **Windows1**, clear the checkbox that makes the user change password at next logon and then **select the checkbox** so that the password never expires.

o   Open the **Properties** of User-Admin and open the **Member Of** tab. Click on the **Add** button and type **Administrators** in the window, then click the **check names** button to confirm you have spelled it correctly. After hitting OK, User-Admin is now a member of the Administrators and Users groups.

o   Open the Properties of User-Limited and open the Member Of tab. Notice that User-Limited is a not a member of the administrators group. (Don't add them to the admin group)

Slide 1: show all the information in the screen capture below
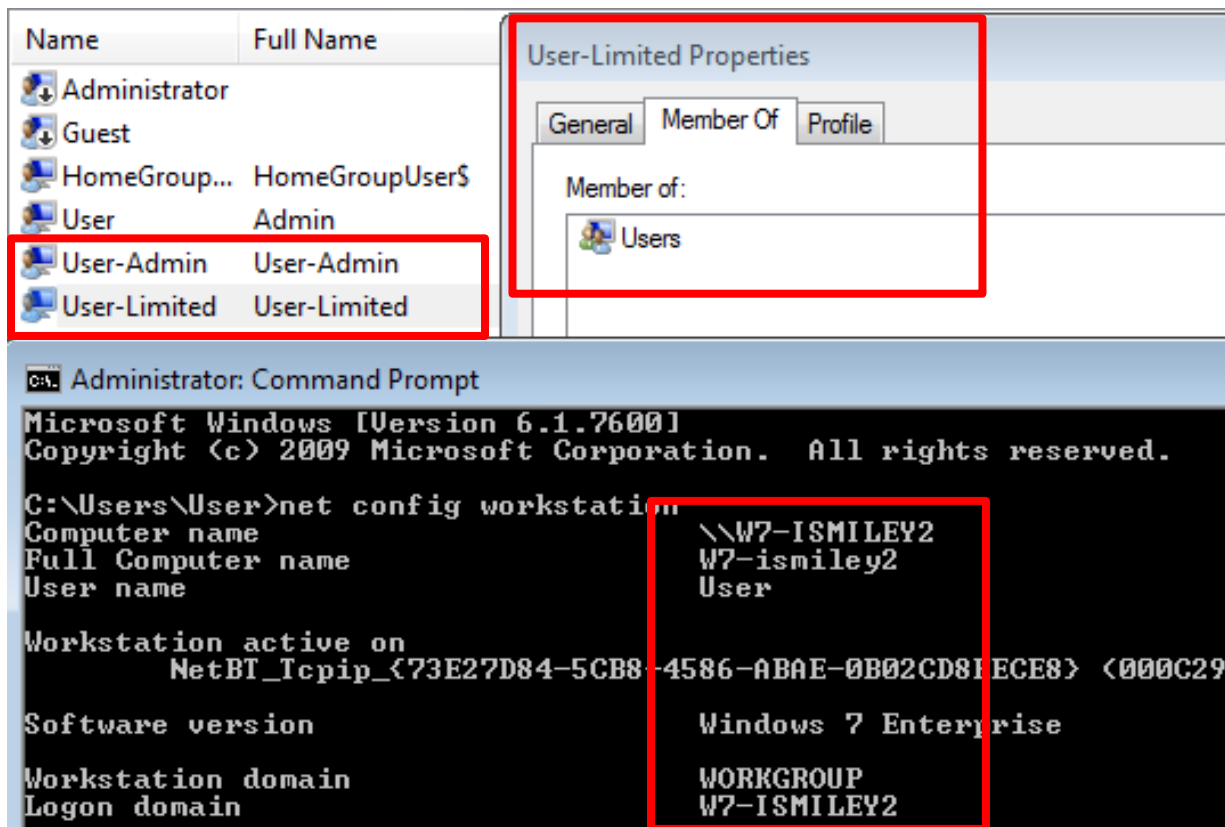
# Join W7 VM and Win 10 to the Domain

- The first thing we need to do is modify our network settings: **add 10.0.0.60 as the DNS server for your W7 VM and Win10 VM**
- **Join** the Windows 7 VM and Win 10 to the domain yourlastname.ca
  - (Hint: this is done in the same place you change your computer name)
- The password you need to enter is that of the Administrator on your S2008R2 VM.
- You will need to **reboot. (Don't skip this step)**
- Logon to the W7 VM with the **Domain Administrator** account
  - To log on as the domain administrator, choose to Switch Users, Other User, then use **YOURLASTNAME\Administrator** as the username

**Slide 2: Take a screen capture of the net config workstation command on the W7 VM**
Slide 3: Take a screen capture of the net config workstation command on the Win10 VM

Creating a Group Policy Object for WSUS on S2008R2

- On S2008R2 go to the start menu and select **administrative tools → group policy management.**

- In the left pane, navigate the tree by opening the following tree items: **Group policy management → Forest: yourlastname.ca →Domains: yourlastname.ca → group policy objects.**
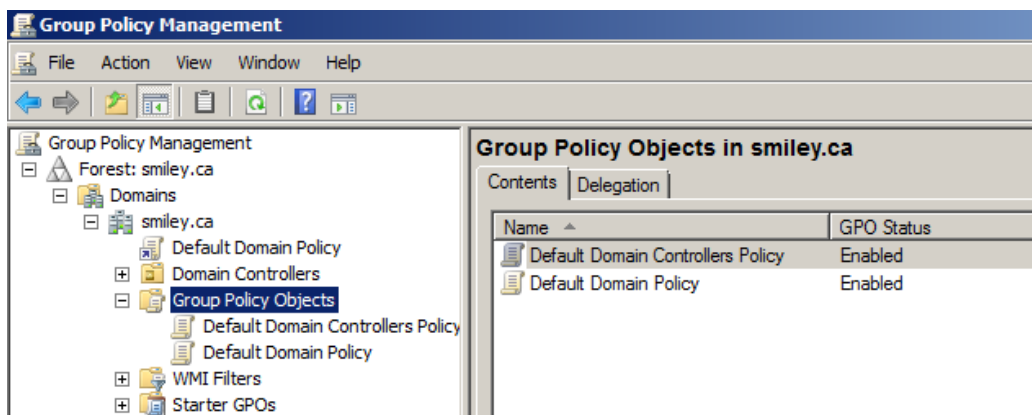
- Right click group policy objects and select **New.**

- Name the new object "WSUS" and click OK.
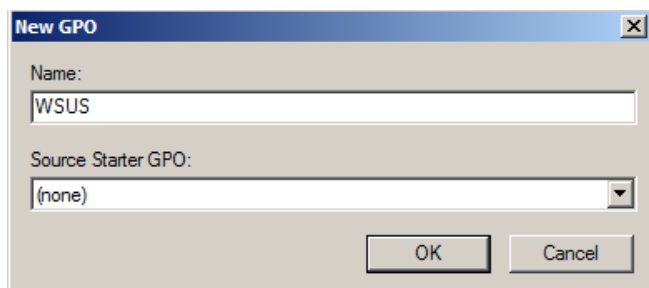
- To edit the newly created policy, right click it and select **Edit** to open the "Group Policy Management Editor".

- Once in the Policy Editor, in the left tree view, navigate to **Computer Configuration → Policies → Administrative Templates → Windows Components → Windows Update**

- This is where we will set the details of the update policy, which can then be deployed to all the computers in our domain, or a subset, whichever we choose.

Research

For each of the 16 policy settings, read the explanation provided and think about how each setting could apply to a small, medium, or large corporation. Don't skip this part, or you won't be able to find the settings you need to change next.

GPO Configuration

Imagine you are the security manager of a medium sized company and must create a Group Policy Object to deploy updates to your client computers. (You will need to modify the WSUS Group Policy Object) The following has been decided on in advance:

1. A WSUS server has been deployed and the system administrator has set the server location as **http://ism-wsus.fanshawec.ca** (this server will also be used for statistics collection)
2. You have decided that the client computers should automatically download and schedule to install updates **every Wednesday at 2:00am**.
3. All clients should be targeted to the **ISM-CLIENTS** computer group.

- Save your changes by closing the Group Policy Management Editor
    - There is no save button

Link GPO to Domain

- Right click on your domain (e.g. smiley.ca) and choose to link an Existing GPO, then link the WSUS GPO
- Select the WSUS GPO and go to the settings tab.
- If you are prompted to, add the site to the approved list so you can view the settings
    - You are basically viewing the settings in IE
- Choose the show all link to view your settings
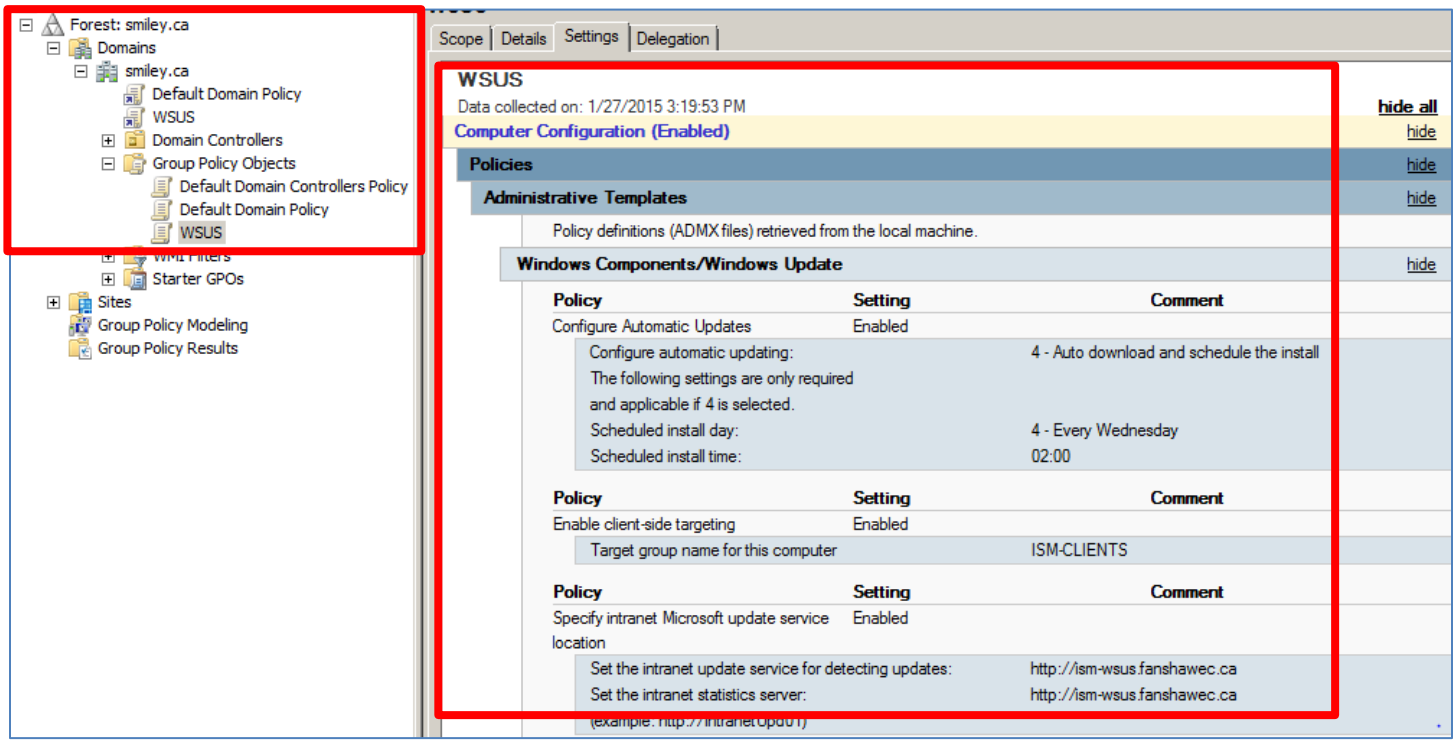
Confirm Application of GPO with RSOP.msc

o The final step is to ensure the settings have been applied to the **W7 VM**
o Open a command prompt and force the client to refresh its GP settings with the **gpupdate /force** command.
o We can now use the **rsop.msc** command to open a console that will let us see whether the settings have been applied or not.
o Once the console opens go to the **Computer Configuration → Administrative Templates → Windows Components → Windows Update** section to view you settings
  o Select the standard view
o **If you don't get the informaiton in the next screen capture try rebooting both VMs**
o Check to see if your settings match your GPO
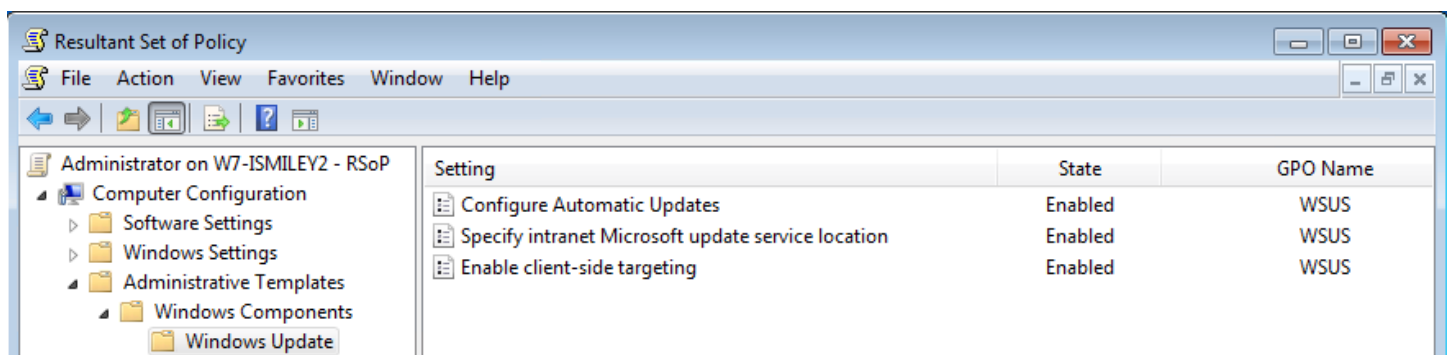
Shutdown both your VMs and take snapshots named After_Lab-03