Assignment-1

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**ASSINGMENT-1**

**DESCRIPTION:**

This assignment is about converting the virtual machine into template file and then creating new virtual machine from that template and comparing the system identification codes of newly created machine. After that this newly generated vm should be converted into template and create new vm from that template and comparing the process of windows setup in both vms. Also compare the SID numbers of all three vms. For this activity I need to create one user and put that user into new group so that I can compare the SID deeply.

**PREPARATION:**

Before starting the activity, our vSphere data center should have enough space to create new virtual machines. If not, it should be done by deleting other virtual machines which are not in use.

**OBSERVATION:**

* Firstly, I connected to my vSphere account by connecting to Conestoga VPN and after that I get into the demo VM which I have created for in class activities.
* I have created new user named  **“MWalker5487”** into that VM where 5487 are last 4 digits of my student ID.
* I also created the group named MTest and added the newly created user into that group.
* I opened command prompt and entered the code **“wmic user account get name, sid“** into command prompt to get SID of all the users.
* After that I noted that machine SID is user’s SID when less the last section. The SID for new created user is **“MWalker5487 = S-1-5-21-2753110465-1832449209-317245257-1011”**
* After getting the SID I powered that machine off and got into the vSphere environment.
* I right clicked on that machine and then selected “convert into template” from template option.
* After that I went into template option of vSphere and found newly created template and right clicked that template to choose **“new VM from this template”** option.
* I named that machine **NOSYS5487** where 5487 is the last 4 digits of my condor id. After choosing a name I completed the deployment from template and created that VM.
* That took some time to power on that NOSYS VM, after powering it on I completed the setup to get access to that new VM.
* This setup was very simple and easy, in short it just started automatically and finished after setting up the device. It did not ask for any extra information and created the VM same as the template.
* After getting into NOSYS I opened command prompt and entered the code **“wmic user account get name, sid“** into command prompt to get SID of all the users. I found that all the users and SID are the same as the demo VM from this was created.
* I ran the command “**sysprep /oobe /generalize /shutdown**” into command prompt after getting into sysprep folder. After running that command, the machine worked sysprep plugins and shut down automatically after processing.
* Here **sysprep** command prepares the windows to installation and it is the main command of removing the basic installation information.
* **/oobe** command will enable the users to customize the windows operating system and perform other tasks.
* **/generalize** command prepare the windows installation to be imaged and clear all the data and information of windows installation.
* **/Shutdown** command will simply shut down the computer after sysprep process.
* After this machine shuts down, I get back to vSphere environment and converted that machine into template.
* After that I created new VM named **WithSYS** from new template converted from NOSYS
* After created WITHSYS I started the process of setting up that device. And I found that this is different from NOSYS setup.
* This time I provided basic information while installation and that was same as when we buy new computers and setup that.
* In NOSYS it automatically setup but for WithSYS I need to manually set up that device.
* After setting up the device I opened command prompt and entered the code **“wmic user account get name, sid“** into command prompt to get SID of all the users.
* I found that there is a new user named **WithS** which I did not find while getting SID for NOSYS and the demo VM.

**SCREENSHOTS**

Here I created group and user mentioned in the instruction.

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated

Here is SID on my demo VM. A screenshot of a computer

Description automatically generated

Here is the windows setup process for NOSYS VM

A black screen with white text

Description automatically generated with low confidence

A picture containing text, nature, screenshot, water

Description automatically generated

Here is the SID on NOSYS vm which is same as demo VM

A screenshot of a computer

Description automatically generated

Here is te sysprep plugin proceess commandA screenshot of a computer

Description automatically generated

Here is the setup process for WithSYS, where I manually set the device.

A screenshot of a computer

Description automatically generated with medium confidence

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated with medium confidence

A blue screen with white text

Description automatically generated with low confidence

Here is theSID on WithSYS VM. Where I found new user named WithS

A screenshot of a computer

Description automatically generated

**REFLECTION:**

After doing this activity I found that creating Virtual machine from template is very easy because there are pre installed image for that. Installing windows from template makes easy and takes less time and effort while the setup.after doing this activity I can say that setting up NOSYS was easy and time saving then WithSYS, however WithSYS process can be helpful to setup new device diffrently from the others.

**REFRENCE:**

[**basic information about sysprep**](https://learn.microsoft.com/en-us/windows-hardware/manufacture/desktop/sysprep-command-line-options?view=windows-11)