1. Hardware Inventory

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| Computers used in  this Lab | ROUTER01  SRV0001  SRV0002  WKS0001 |
| More information | Introduction to hardware inventory in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/clients/manage/inventory/introduction-to-hardware-inventory>  How to configure hardware inventory in System Center Configuration Manager  <https://docs.microsoft.com/en-us/sccm/core/clients/manage/inventory/configure-hardware-inventory> |
| Description | In this chapter, we will look at Hardware Inventory, extend collection of data, capturing data from the client as well as looking at the new data from the SCCM Server |

* 1. Changing Default Client Settings

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Administration. |
| 02. Click Client Settings |
| 03. Select the default client settings and click Properties |
| 04. Under Default Settings, click Hardware Inventory and then, Set Classes… |
| 05. Make the following changes:   * Under Services (Win32\_Service) choose:   + State * Under Environment (Win32\_Environment) choose:   + Name   + User Name   + Caption   + Description   + Install Date   + Status   + System Variable   + Variable Value * Under Logical Disk (SMS\_LogicalDisk) choose:   + Free Space (MB)   Click Ok twice |

This can also be achieved via PowerShell using the commands below:

$Classes = @()

$Classes += New-CMInventoryReportClass -id 'MICROSOFT|SERVICE|1.0' -ReportProperty @('DisplayName','Name','PathName','ServiceType','StartMode','StartName','Status','State')

$Classes += New-CMInventoryReportClass -id 'MICROSOFT|LOGICAL\_DISK|1.0' -ReportProperty @('Availability','Caption','Compressed','Description','DeviceID','DriveType','FileSystem','FreeSpace','Name','Purpose','Size','Status','StatusInfo','SystemName','VolumeName','VolumeSerialNumber','FreeSpace')

$Classes += New-CMInventoryReportClass -id 'MICROSOFT|ENVIRONMENT|1.0' -ReportProperty @('Name','UserName','Caption','Description','InstallDate','Status','SystemVariable','VariableValue')

Set-CMClientSettingHardwareInventory -DefaultSetting -AddInventoryReportClass @($classes)

* 1. Updating Client Policies

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| Perform this task on the wks0001 virtual machine logged on as user01 |
| 01. Open Control Panel and then click Configuration Manager |
| 02. Change to the Actions Tab, select Machine Policy Retrieval & Evaluation Cycle and click Run now  Note: Using this option will force the client to connect to the server and update its settings. By default, this happen every 60 minutes and can be changed under Client Settings -> Client Policy -> Client policy polling interval (minutes) |
| 03. Under Machine Policy Retrieval & Evaluation Cycle click Ok  Note: Depending on the SCCM environment, the user policy retrieval & evaluation cycle can take few minutes |

This can also be achieved via PowerShell using the commands below:

$SMSCli = [wmiclass] "root\ccm:SMS\_Client"

$SMSCli.TriggerSchedule("{00000000-0000-0000-0000-000000000021}")

start-sleep 10

$SMSCli.TriggerSchedule("{00000000-0000-0000-0000-000000000022}")

Start-Sleep 60

* 1. Starting Hardware Inventory

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| Perform this task on the wks0001 virtual machine logged on as user01 |
| 01. Open Control Panel and then click Configuration Manager |
| 02. Change to the Actions Tab, select Hardware Inventory Cycle  Note: Using this option will force the client to perform the hardware inventory. By default, this happen every once every 7 days and can be changed under Client Settings -> Hardware Inventory -> Hardware Inventory schedule |
| 03. Under Hardware Inventory Cycle click Ok |
| 04. On the client, you can also the following client logs:   * C:\Windows\ccm\Logs\InventoryAgent.log: Records activities of hardware inventory, software inventory, and heartbeat discovery actions on the client. |

This can also be achieved via PowerShell using the commands below:

$SMSCli = [wmiclass] "root\ccm:SMS\_Client"

$SMSCli.TriggerSchedule("{00000000-0000-0000-0000-000000000001}")

Start-Sleep 60

* 1. Resource Explorer

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| Perform this task on the SRV0002 virtual machine logged on as sccmadmin |
| 01. Start Configuration Manager Console and Click Assets and Compliance. |
| 02. Click Devices |
| 03. Right click a Windows computer and click Start -> Resource Explorer |
| 04. Once the resource explorer open, expand hardware |
| 05. Select Environment |
| 06. Select Services and notice the new column |
| 07. Select Logical Disk and notice the new column |

This can also be achieved via PowerShell using the commands below:

$SiteCode = "001"

$servername = "SRV0002.classroom.intranet"

$ModulePath = $env:SMS\_ADMIN\_UI\_PATH

if ($ModulePath -eq $null) {

$ModulePath = (Get-ItemProperty -Path "Registry::HKEY\_LOCAL\_MACHINE\SYSTEM\CurrentControlSet\Control\Session Manager\Environment").SMS\_ADMIN\_UI\_PATH

}

$ModulePath = $ModulePath.Replace("bin\i386","bin\resourceexplorer.exe")

#windows machine

$Device = get-CMDevice -name "WKS0001"

Start-Process -Filepath ("$ModulePath") -ArgumentList ("-s -sms:ResourceID=$($Device.ResourceID) -sms:connection=\\$($servername)\root\sms\site\_$($siteCode)")