**Active Directory Reporting**

**Input options**

1. Single object needs to be selected from the drop down. (Computers, GPO, Users, etc.)

As per the 1 dropdown selection below options needs to be changed.

1. Action which we need to perform. (Eg :- All comp, offline for Last 30 days, etc.)

* Window to specify the parameters which needs to be searched. (If we need to search for specific Comp, User, Group or GPO).

1. Provide checkbox for the attributes to include in result. (General, system, account, etc.)

Here technician should have the choice of selecting the attribute which needs to be included in results. (Checkbox for each attribute).

1. Email ID input / Save the report generated on the local machine.

**Manual Steps: -**

1. Os Version check.
2. PS Version check.
3. Domain Controller check.
4. Check for the NTDS and ADWS service.
5. Run the command Net share to check if the sysvol and netlogon is shared.
6. Check for the replication if it is working fine.
7. Computer report
8. GPO report
9. Users report
10. Groups report

**Automation Logic**: -

1. Check the system’s Windows NT kernel version.

(Get-ItemProperty -Path "HKLM:\SOFTWARE\Microsoft\Windows NT\CurrentVersion"). CurrentVersion



1. If the kernel version is equal to OR greater than 6.1, continue to next step.

1. If the kernel version is less than 6.1, exit with error: Legacy OS found.
2. Check if current machine is domain controller.

If current machine is not a DC then exit stating “This machine is not a domain controller, exiting the script”.

1. Check the status of ADWS Service and NTDS Service status if the same is not running then exit stating ADWS Service is not running hence cannot continue further.

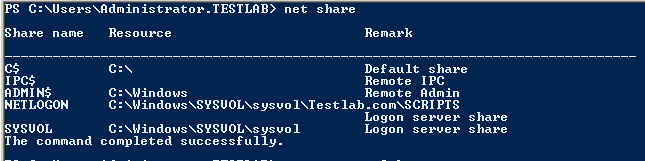
Option to be given to start the ADWS Service if set to Automatic and another option to be given if Service is set to Manual or Disabled.

If the NTDS Service or ADWS service is stopped and set to automatic then exit stating message “Active Directory Domain Services or Active Directory Web Services are stopped, please select ‘Start AD Domain Services or AD Web Services check box to proceed further”.

If the NTDS Service or AD Web Service is disabled or manual and not in running state then Exit stating message “NTDS or ADWS Service is disabled, please either contact MSP or Select option to Enable the NTDS Service or ADWS service”.

1. Run the command Net share to check if the sysvol and netlogon is shared for the domain controller (Localhost)

Net share



If the Sysvol and netlogon is not shared, Print the output “Sysvol and netlogon is not shared for this domain controller, Hence cannot proceed further.” And exit from the script.

1. Check for the replication if it is working fine.

**Repadmin /showreps**

If there are replication issues print the output “There are some replication issues into the domain”. and exit.

If not proceed with further with the script.

1. If Computers are selected in the drop down and as per the checkbox selected for the report.

If the object computer is selected, then the report will contain the below details. (Below details will be same for all the options in computers).

Checkbox for each option to get the details which is needed.

Option 3 :-

General

* + Creation date
  + DNS Hostname
  + Name
  + Operating system
  + Parent container
  + Service pack

Account

* + Password Age (Days)
  + Password Last change

Non- replicated

* + Last Logon date
  + Last logon DC

Group membership

* + Group membership (All)

Domain

* + Distinguished name
  + GUID
  + SID
  + Protected from accidental deletion
* All Computers

If “**all computers**” option is selected generate the report for all the computers into the domain.

* Computers created in last 30 days.

If “**Computers created in last 30 days**” option is selected generate the report for all the computers created in last 30 days into the domain.

Option 2 :-

* All Computers
* Computer with specified GUID (window to enter the GUID which needs to be searched)
* Computer with specified name (window to enter the computer name which needs to be searched)
* Computers created in last 30 days.
* Computers deleted in last 30 days.
* Computers that are direct members of specified groups (window to enter the group which needs to be searched)
* Computers that are direct / indirect members of specified groups (window to enter the group which needs to be searched)
* Computers running windows 10
* Computers running windows server 2008 R2
* Computers running windows server 2012 R2
* Computers running windows server 2016
* Computers running windows server 2019
* Computers that are not protected from deletion
* Computers that are protected from deletion
* Computers that have never logged on
* Computers that have never logged on for 60 days
* Disabled computers
* Enabled computers

1. If GPO’s are selected in the drop down and as per the checkbox selected for the report.

If the object “**GPO’s**” is selected, then the report will contain the below details. (Below details will be same for all the options in GPO’s).

Option 3 :-

General

* + Creation date
  + Display name
  + Modification date
  + Parent container
  + Status

System

* + Computer version
  + User version
  + Distinguished name
  + GUID
  + SYSVOL file path

Option 2:-

* All GPO’s
* GPO with specified Unique ID (window to enter the Unique ID which needs to be searched)
* GPO’s created in last 30 days
* GPO’s modified in last 30 days
* GPO’s with all settings disabled
* GPO’s with all settings enabled
* GPO’s with computer settings disabled
* GPO’s with user settings disabled

1. If Users are selected in the drop down and as per the checkbox selected for the report.

If the object “**Users**” is selected, then the report will contain the below details. (Below details will be same for all the options in Users).

Option 3 :-

General

* + Creation date
  + Display name
  + Email address
  + Employee ID
  + First name
  + Last name

Account

* + Account is locked out
  + Disabled
  + Expiration date
  + Must change password at next logon
  + Password age
  + Password expiration date
  + Password last changed
  + Password never expires
  + User cannot change password
  + Username

Option 2 :-

* All users
* Deleted users
* Disabled users
* Enabled users
* User with specified employee ID (window to enter the Employee ID which needs to be searched)
* User with specified GUID (window to enter the GUID which needs to be searched)
* User with Specified name (window to enter the name which needs to be searched)
* User with specified SID (window to enter the SID which needs to be searched)
* User created in the last 30 days
* User modified in last 30 days
* Users that are direct members of specified group (window to enter the Group which needs to be searched)
* Users that are directly and indirectly members of specified group (window to enter the Group which needs to be searched)
* Users that cannot change their passwords
* Users that have never logged on
* Users that have not logged on for 60 days
* Users that will expire in next 30 days
* Users with locked out accounts
* Users with passwords that never expire
* Users with no logon script
* Users with specified logon script (window to enter the logon script name which needs to be searched)

1. If Groups are selected in the drop down and as per the checkbox selected for the report.

If the object “**Group”** is selected, then the report will contain the below details. (Below details will be same for all the options in Groups).

Option 3 :-

General

* + Creation date
  + Display name
  + Group Scope
  + Group Type
  + Modification Date
  + Parent Container

Group Membership

* + Group Membership (All)
  + Group Membership (Direct)
  + Group Membership (Indirect/Nested)

Group Members

* + Contains members from external domain
  + Group Members all
  + Group Members direct

System

* + Critical system object
  + Deleted
  + Distinguished name
  + GUID
  + Last Known location
  + Protected from accidental deletion
  + SID

Option 2 :-

* All Groups
* Domain Local Groups
* Global Groups
* Security groups
* Universal groups
* Group with specified GUID (window to enter the Group GUID which needs to be searched)
* Group with specified name (window to enter the Group name which needs to be searched)
* Group with specified SID (window to enter the Group SID which needs to be searched)
* Group created in last 30 days
* Groups deleted in last 30 days
* Groups modified in last 30 days
* Groups that are direct members of specified group (window to enter the Group name which needs to be searched)
* Groups that are not protected from deletion
* Groups that are protected from deletion
* Groups that do not contains specified member (window to enter the member name which needs to be searched)
* Groups with specified member (window to enter the member name which needs to be searched)
* Groups with no members

1. Once the Reports are generated for the selected object, Send the report over email if email input has been provided or save the report on the local server which can be easily accessed.