

Windows Server Backup and Restore

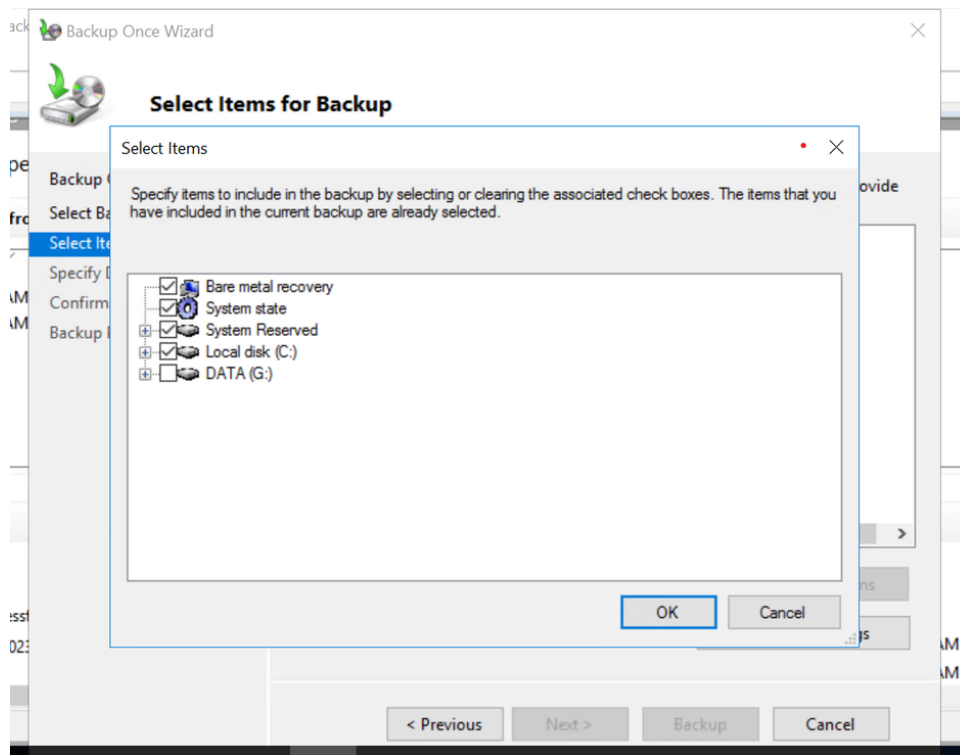
Date: 06-09-2023

Windows Server Backup and Restore:

Backup and restore are very important tasks in the field of business, especially for large and small companies, as it saves important folders and files and provides you with an easy way to restore these files.

Windows Server Backup and Restore includes three types of backups.

1. File and Folder Backup.
2. System State Backup.
3. Bare Metal Backup.



- **File and Folder Backup:**

This feature is used to make a backup of files, folder, documents, pdf, audio, video etc. Anything present in files/folders can be backed up by using file and folder backup.

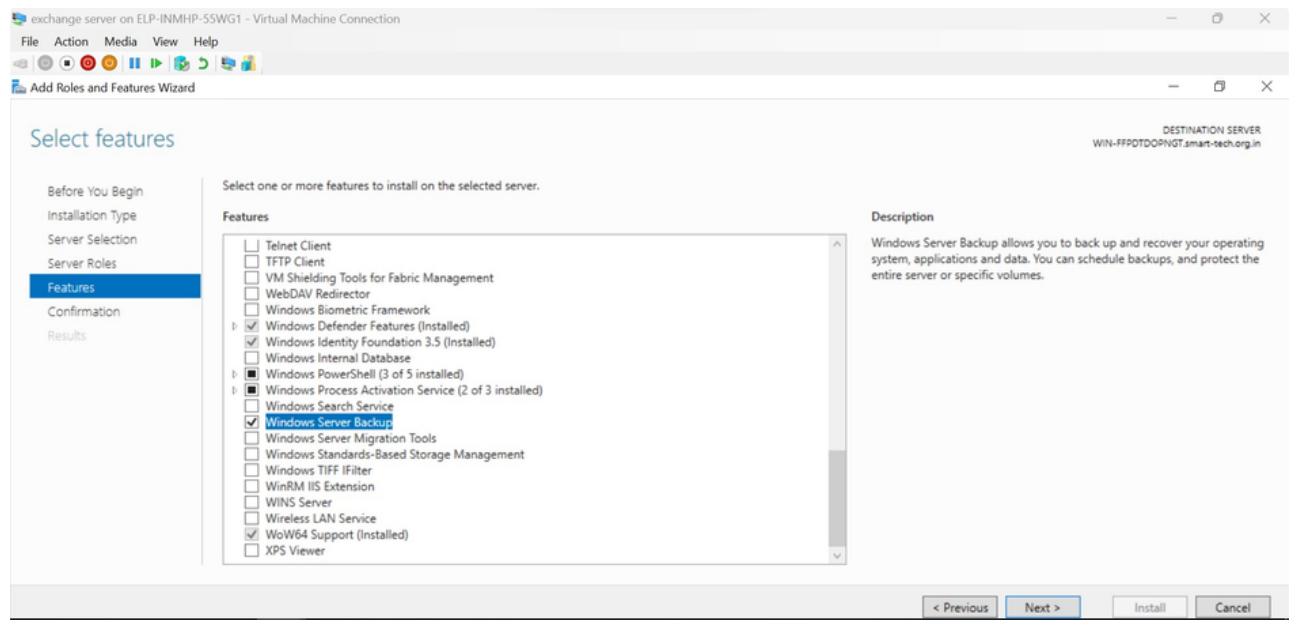
- **Bare Metal Backup:**

Bare Metal Backup is used to make a backup of system drives, OS drives, system reserved, system state data, means complete operating system, application settings and configuration and Active Directory Backup.

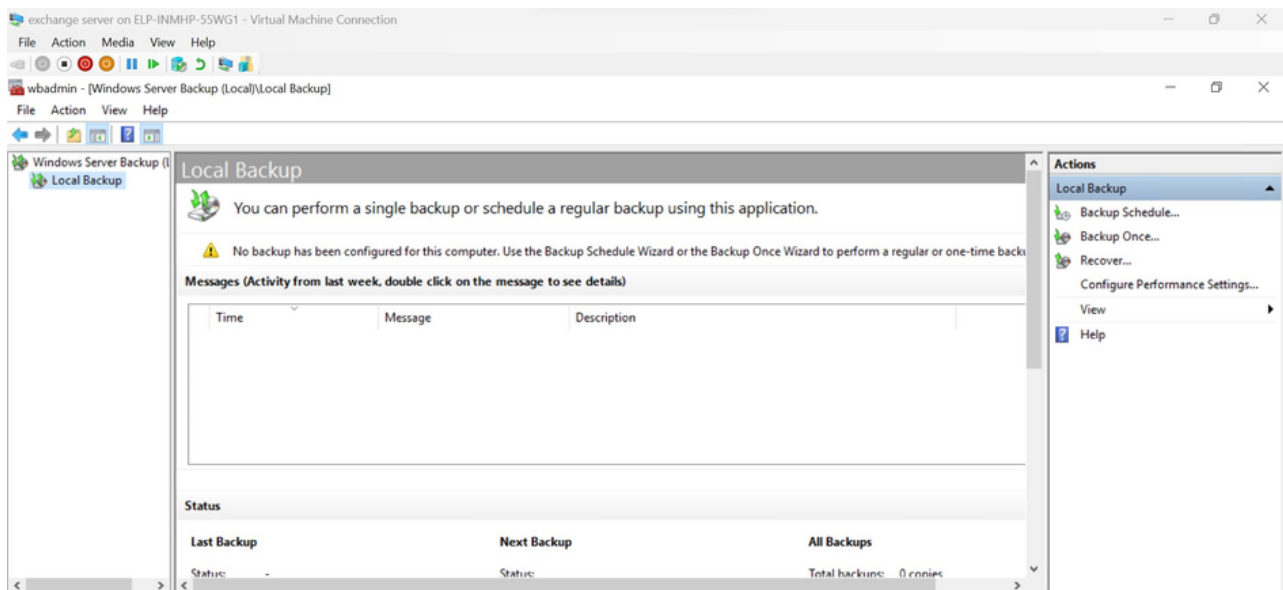
- **System State Backup:**

System State Backup is used to create a backup of Active Directory.

- We are using a Virtual Machine of Windows Server 2016 using Hyper V Manager.
- Open the server manager and install the feature of Windows Server Backup.

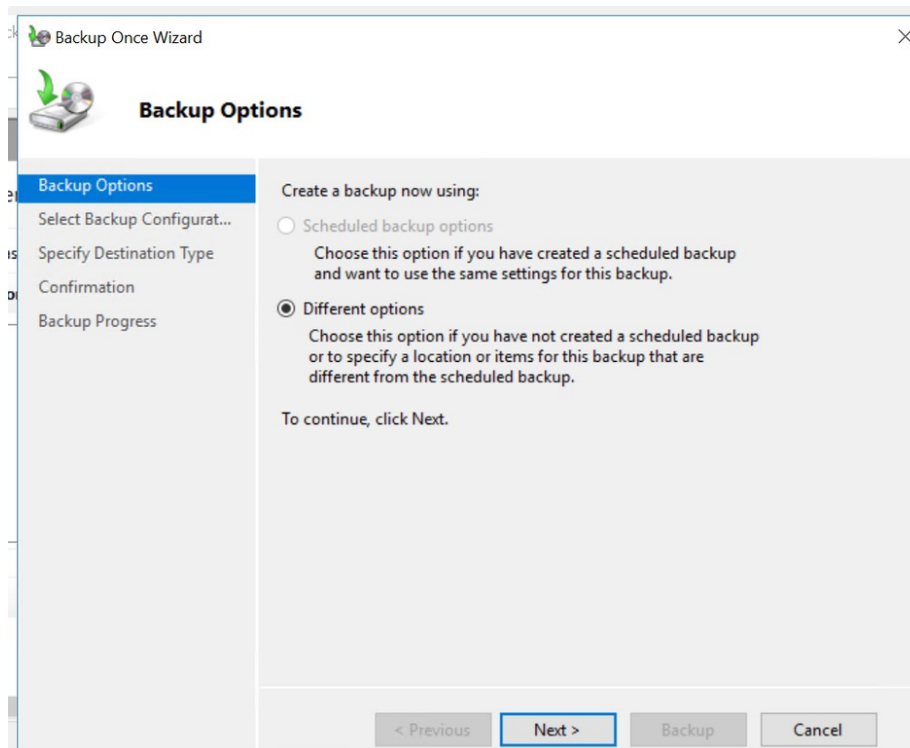


- After installation, open windows server backup from the tools, and the console of windows server backup will be appeared as follows.

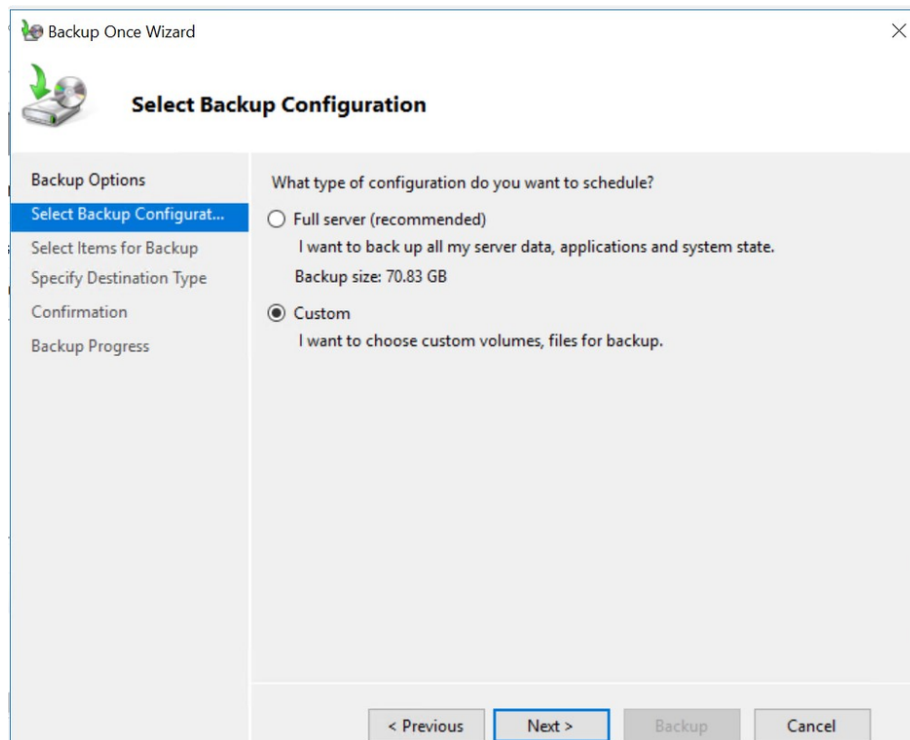


- From the above console, if we go to right hand panel we can observe the three options of Backup Schedule, Backup Once and Restore. Let's check all the options one by one.

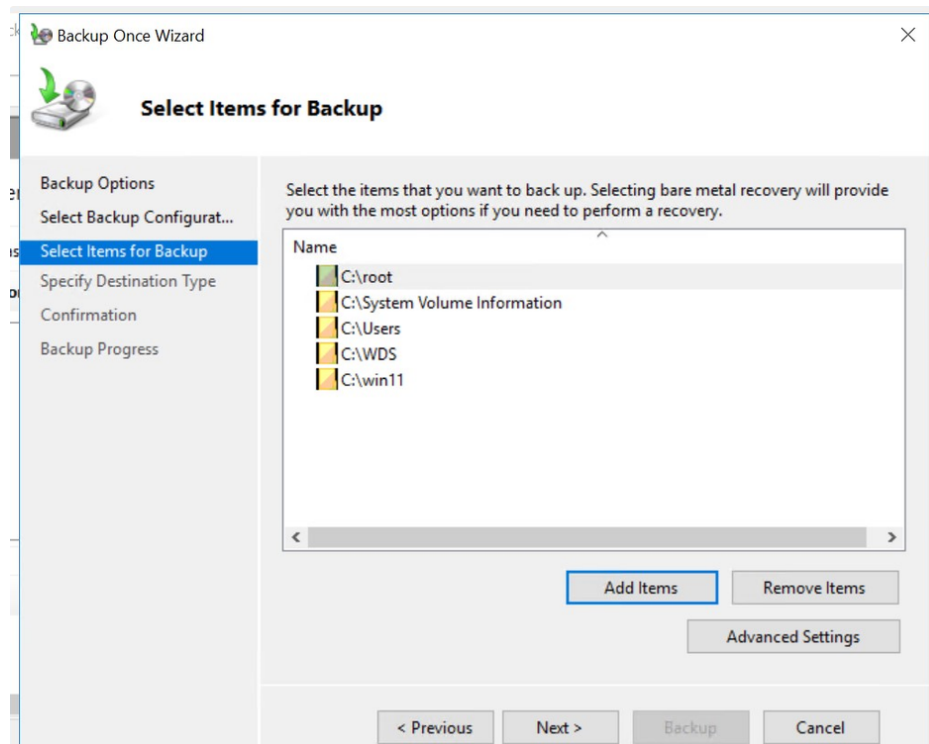
Backup Once:



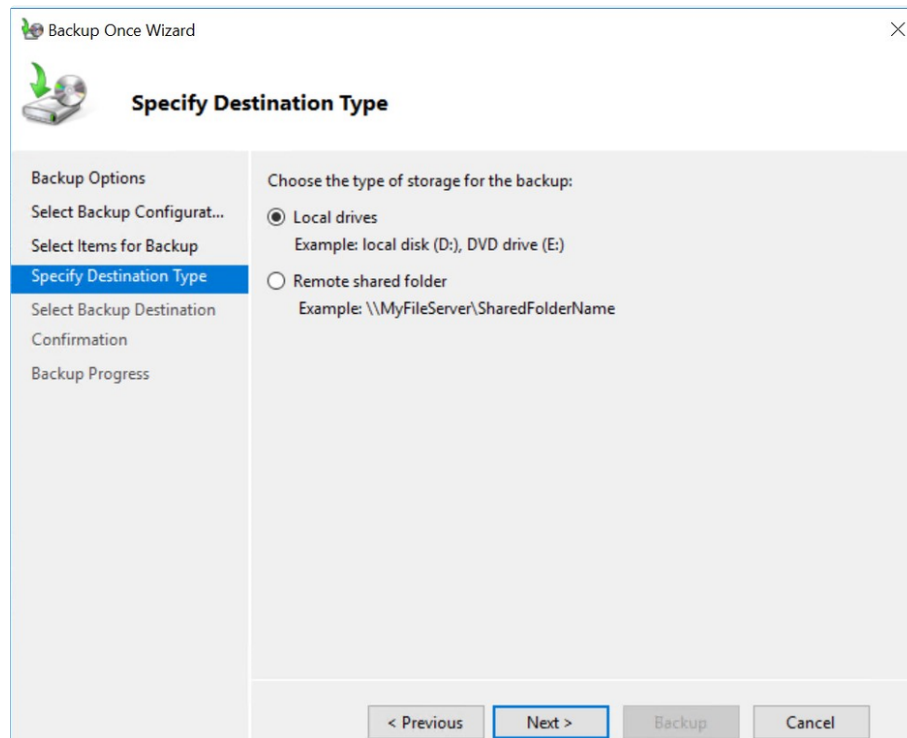
- This is the wizard of backup once, by using this option we can create a backup one time. From the above wizard we can see that different options is selected default, because we haven't created a backup schedule.



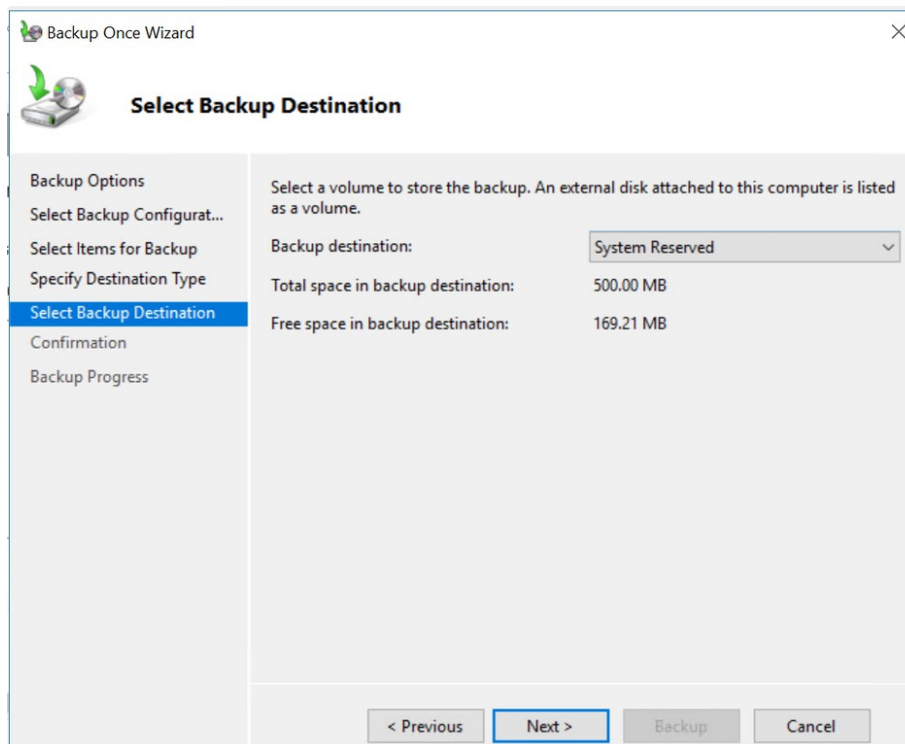
- As the next step from the wizard, we need to select the custom option, due to insufficient space to select full server to create a backup. By selecting custom option, we can choose volumes, files for backups.



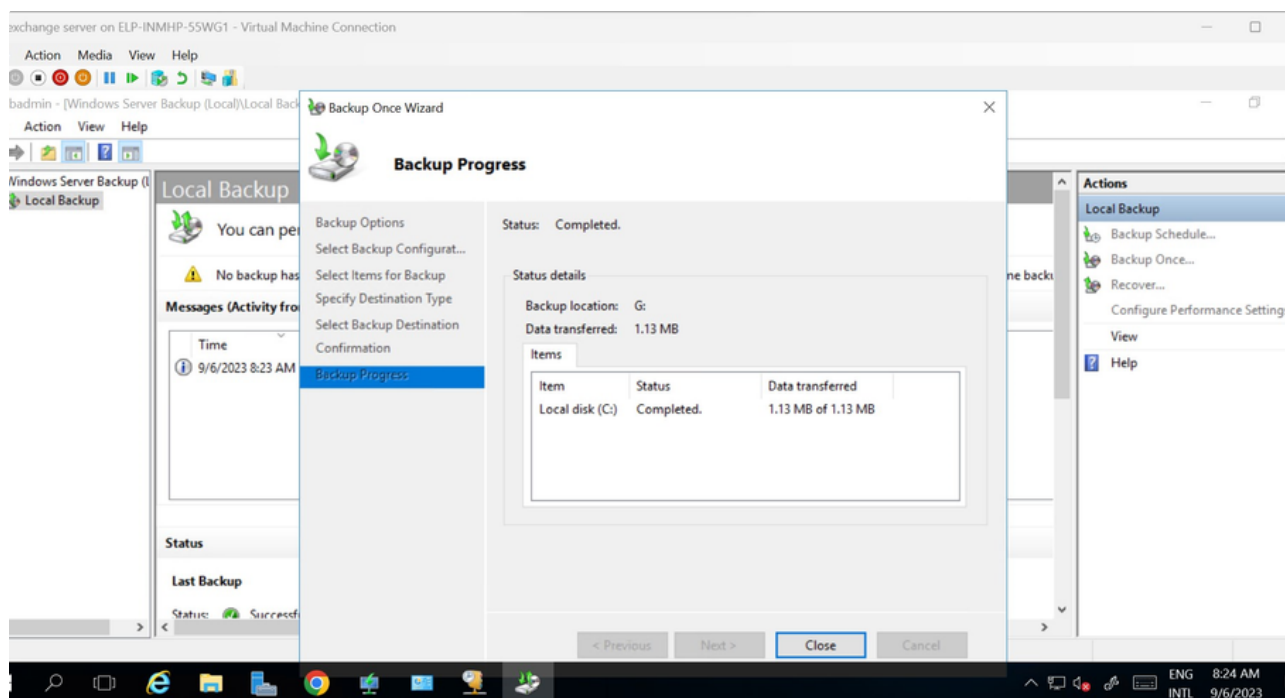
- At this point we can select the folders, files, volumes, drives to create a backup of them.



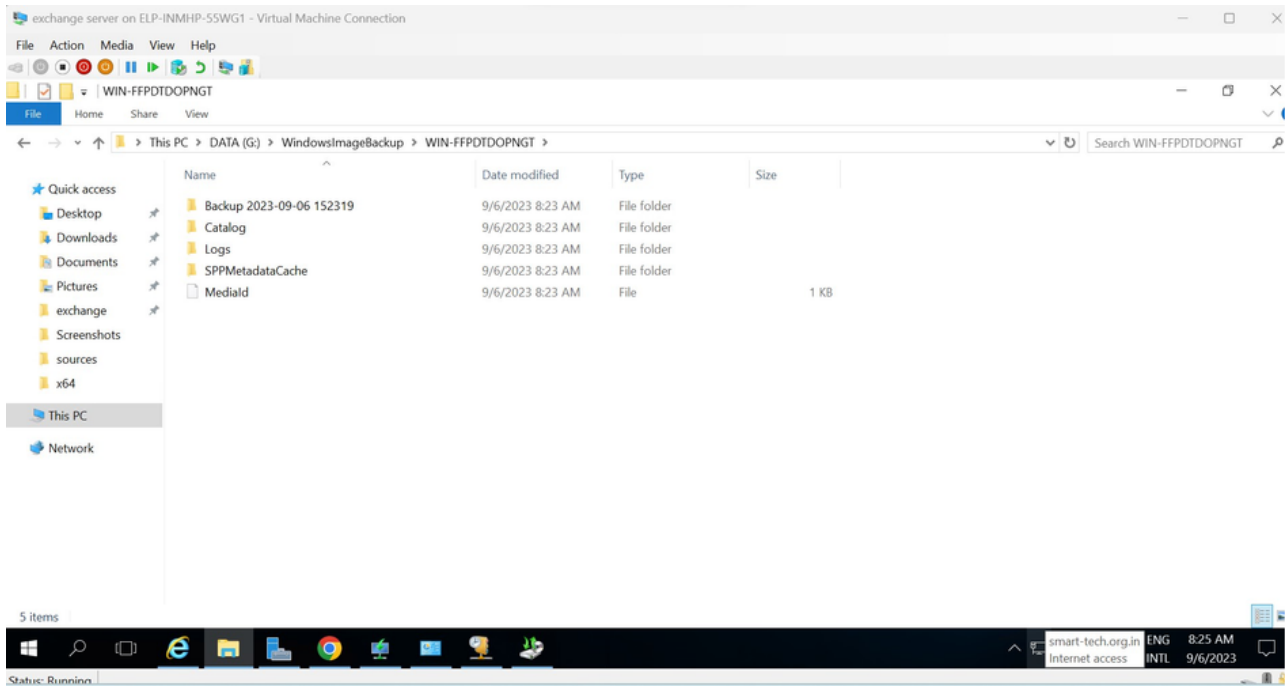
- Here we need to choose local drives option. Where we have created a backup file to save the backup that we created.



- We need to choose the destination of the backup according to our requirements.

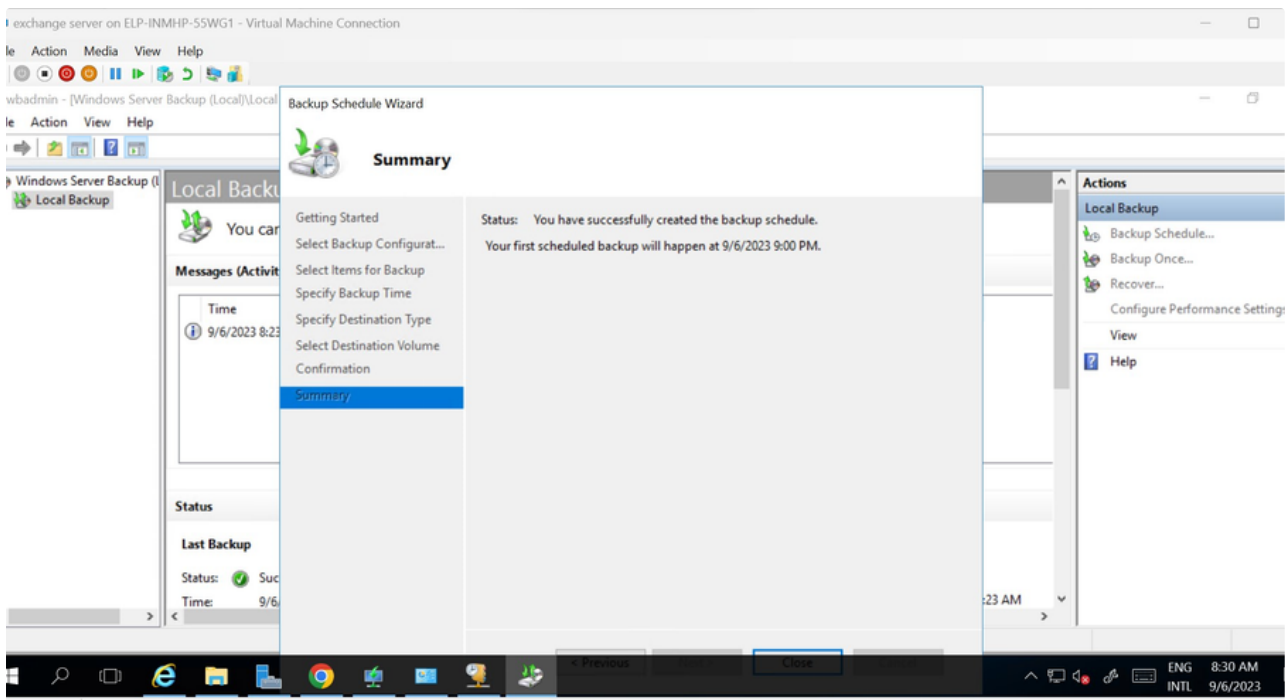


- After following the steps of backup progress, we are able to complete the backup once task. And we can check that our backup is successful/not by verifying the destination folder. Where we can find the required data files in a folder named as WindowsImageBackup.



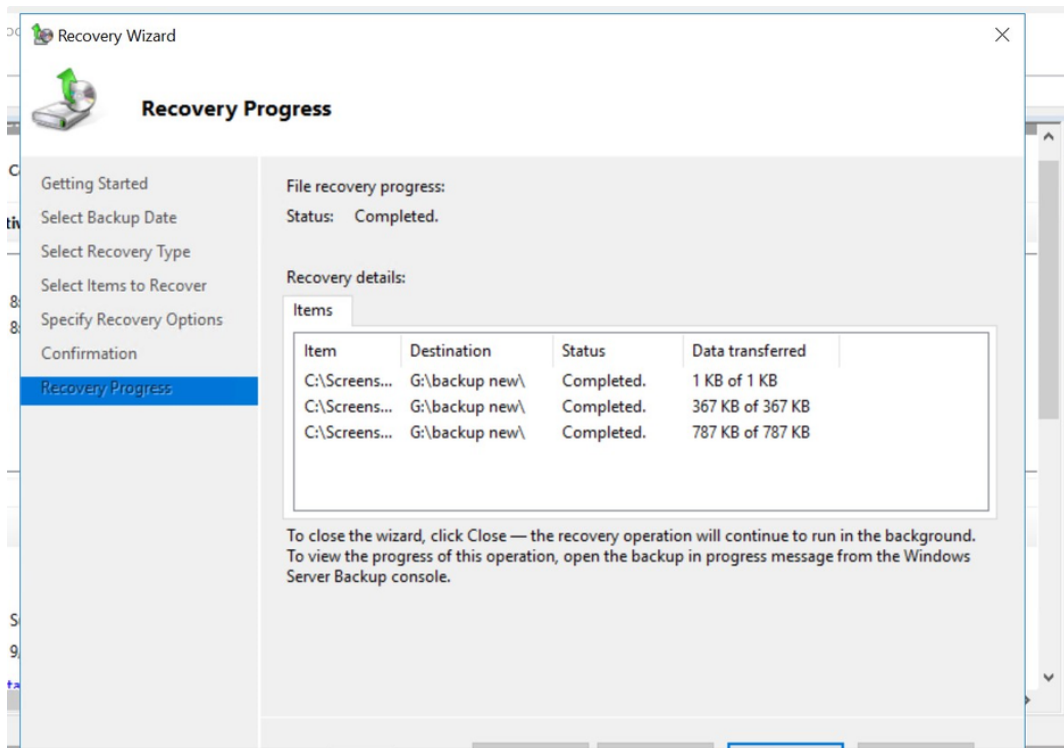
Backup Schedule:

- Backup Schedule is a concept similar to backup once, it follows the same steps as backup once wizard.
- But the difference is here we create a schedule to backup at a specific time.



Recover:

- Recover is the most important concept, which is directly related to backup, only backing up is not much useful without recover.
- And the process of recovery is somewhat similar to the steps of backup, except here we need to create a folder to recover the backup files and specify the destination of it clearly.



- Here we created a folder called backup new to recover the backup files in DATA-G drive. And this is the result of Windows Server Backup.

