# 1. <u>Service Packs</u>

A service pack is a collection of updates and fixes, called patches, for an operating system or a software program. Many of these patches are often released before a larger service pack, but the service pack allows for an easy, single installation.

An installed service pack also tends to update the version number for Windows. This is the actual version number, not the common name like Windows 11 or Windows Vista.
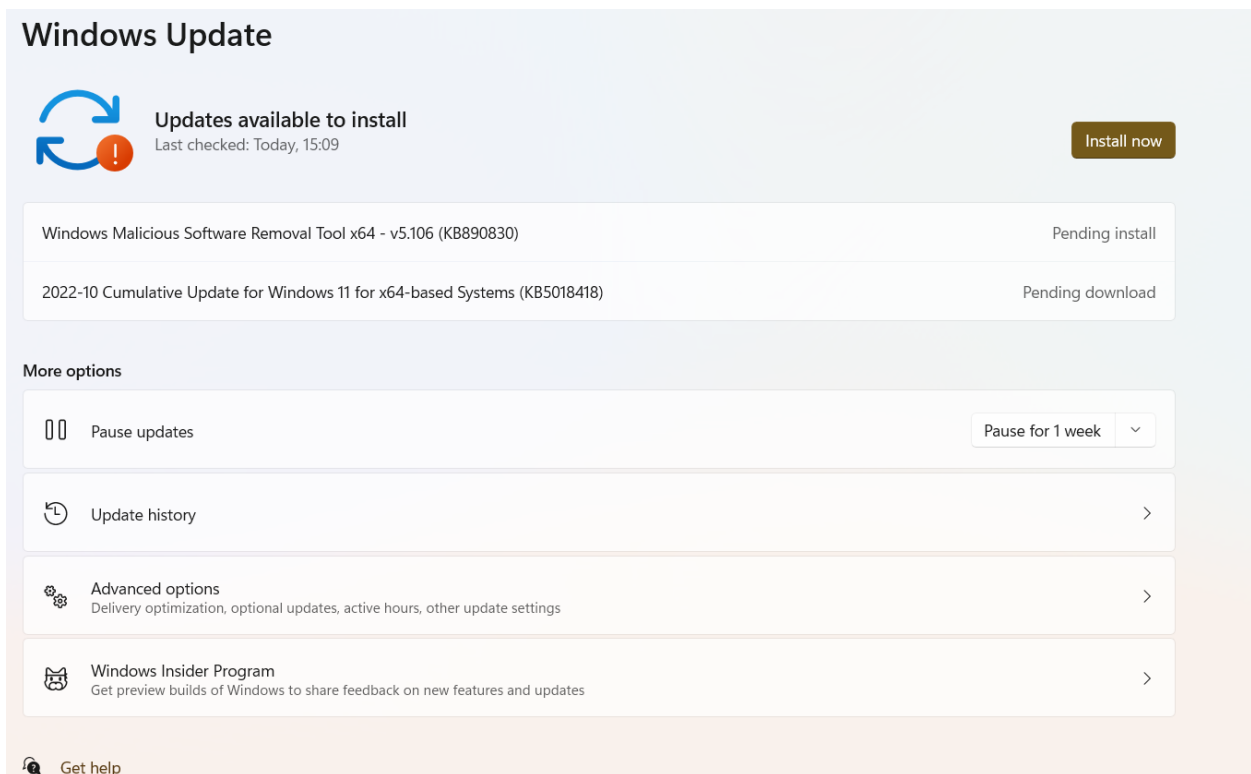
2.<u>Hotfixes</u>

A hotfix or quick-fix engineering update (QFE update) is a single, cumulative package that includes information (often in the form of one or more files) that is used to address a problem in a software product (i.e., a software bug).Typically, hotfixes are made to address a specific customer situation.

2022-09 Cumulative Update Preview for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 11 for x64 (KB5017859) Successfully installed on 07-10-2022	Learn more
2022-09 Cumulative Update for Windows 11 for x64-based Systems (KB5017328) Successfully installed on 19-09-2022	Learn more
2022-09 Cumulative Update for .NET Framework 3.5, 4.8 and 4.8.1 for Windows 11 for x64 (KB5017497) Successfully installed on 18-09-2022	Learn more
2022-08 Cumulative Update Preview for .NET Framework 3.5 and 4.8 for Windows 11 for x64 (KB5016594) Successfully installed on 10-09-2022	Learn more
2022-08 Cumulative Update for .NET Framework 3.5 and 4.8 for Windows 11 for x64 (KB5015732) Successfully installed on 06-09-2022	Learn more
2022-08 Security Update for Windows 11 for x64-based Systems (KB5012170) Successfully installed on 02-09-2022	Learn more
2022-08 Cumulative Update for Windows 11 for x64-based Systems (KB5016629) Successfully installed on 28-08-2022	Learn more
2022-07 Cumulative Update for Windows 11 for x64-based Systems (KB5015814) Successfully installed on 18-07-2022	Learn more
2022-06 Cumulative Update for Windows 11 for x64-based Systems (KB5014668) Successfully installed on 08-07-2022	Learn more
2022-06 Cumulative Update for Windows 11 for x64-based Systems (KB5014697) Successfully installed on 17-06-2022	Learn more
2022-05 Cumulative Update Preview for .NET Framework 3.5 and 4.8 for Windows 11 for x64 (KB5013889) Successfully installed on 04-06-2022	Learn more

3.Backups

A backup is a copy of important data that is stored on an alternative location, so it can be recovered if deleted or it becomes corrupted. Data should be backed up at an interval determined by how often the data changes, how valuable it is, and how long it takes to perform the backup.

Control Panel Home

Create a system image

Create a system repair disc

Back up or restore your files

Backup

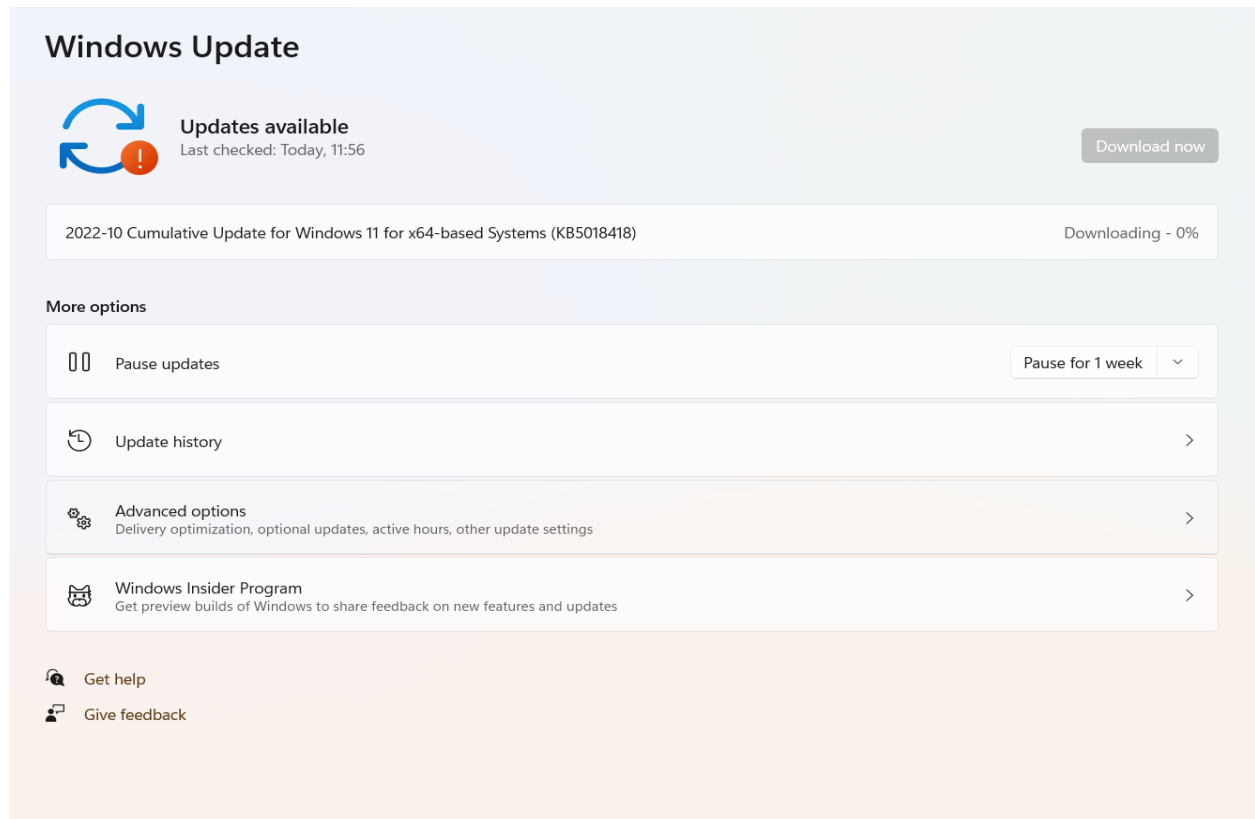Windows Backup has not been set up.   🛡Set up backup

Restore

Windows could not find a backup for this computer.
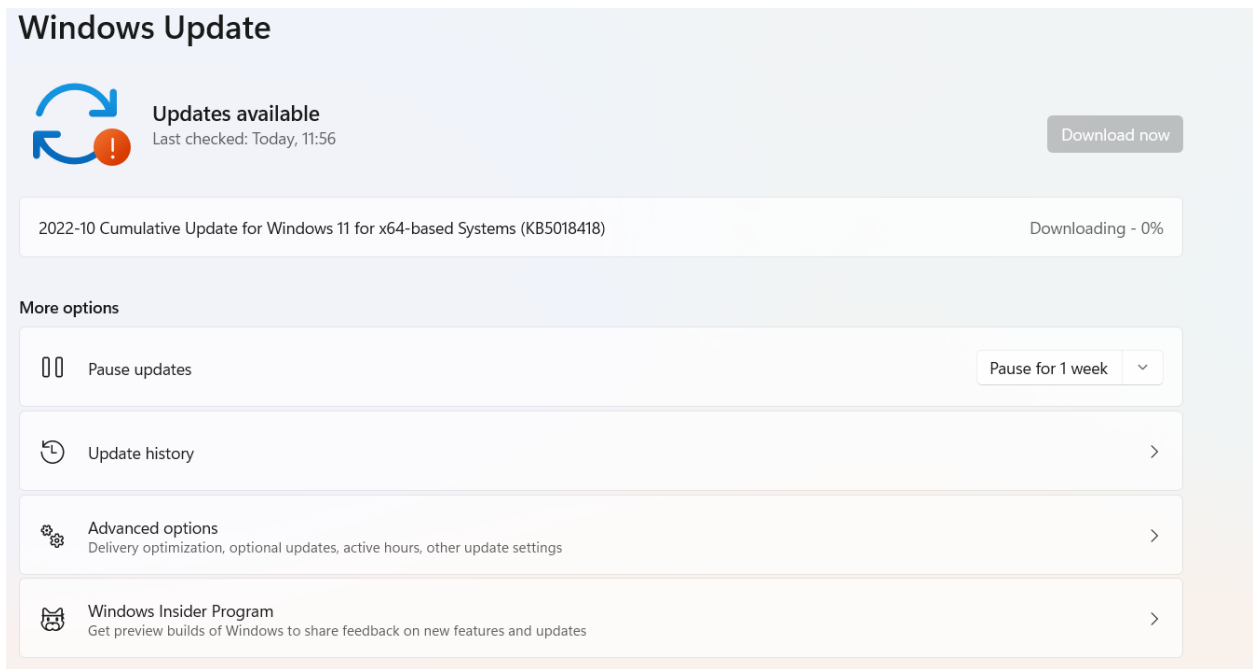
🛡Select another backup to restore files from

4.Patch installation

A patch is a set of changes to a computer program or its supporting data designed to update, fix, or improve it. This includes fixing security vulnerabilities and other bugs, with such patches usually being called bugfixes or bug fixes.

Windows Update

Updates available
Last checked: Today, 11:56

Download now

2022-10 Cumulative Update for Windows 11 for x64-based Systems (KB5018418)   Downloading - 0%

More options

00	Pause updates		Pause for 1 week ⌄
🕘	Update history		>
⚙	**Advanced options** Delivery optimization, optional updates, active hours, other update settings		>
🐱	**Windows Insider Program** Get preview builds of Windows to share feedback on new features and updates		>

🔍 Get help

💬 Give feedback

5.Automatic updates

With the Automatic Updates feature, Windows can automatically keep the computer up to date with the latest updates and enhancements. You no longer have to search for critical updates and information; Windows delivers them directly to the computer.

Windows Update

Updates available
Last checked: Today, 11:56

Download now

2022-10 Cumulative Update for Windows 11 for x64-based Systems (KB5018418)   Downloading - 0%

More options

Pause updates   Pause for 1 week

Update history   >

Advanced options
Delivery optimization, optional updates, active hours, other update settings   >

Windows Insider Program
Get preview builds of Windows to share feedback on new features and updates   >

<u>6. System restore</u>

System Restore is a feature in Microsoft Windows that allows the user to revert their computer's state to that of a previous point in time, which can be used to recover from system malfunctions or other problems.
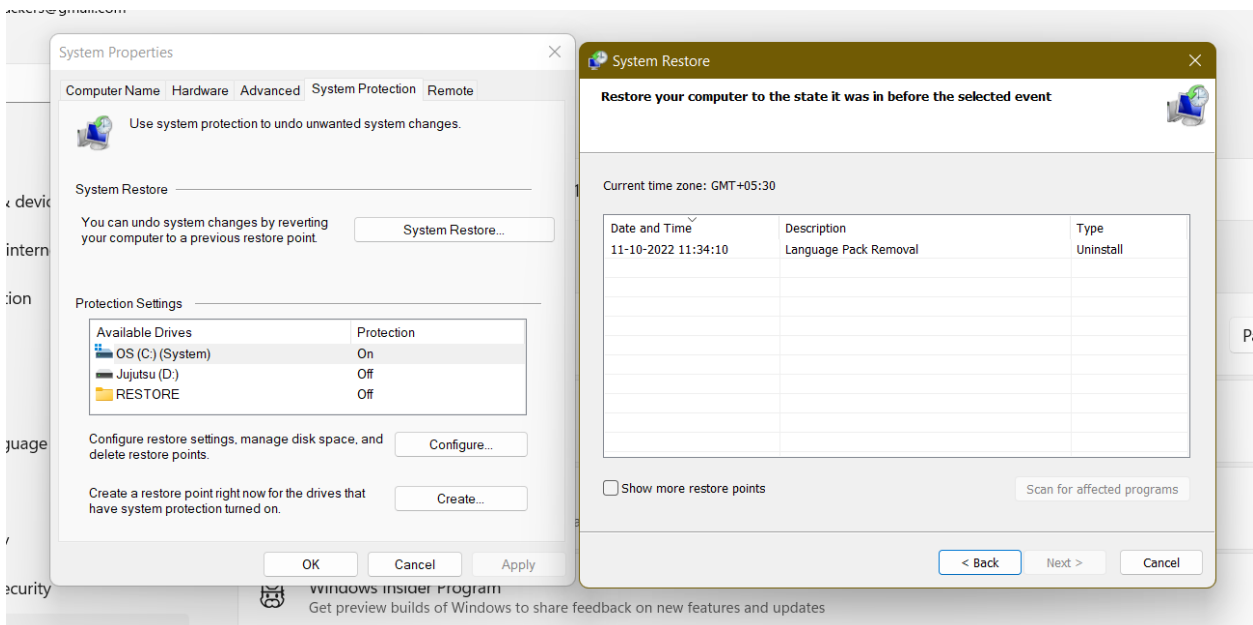
7.Device driver rollback

Driver rollback feature in Microsoft Windows helps restore the device driver to a previous version. This helps avoid potential conflicts or issues with the new driver that is installed on the computer.
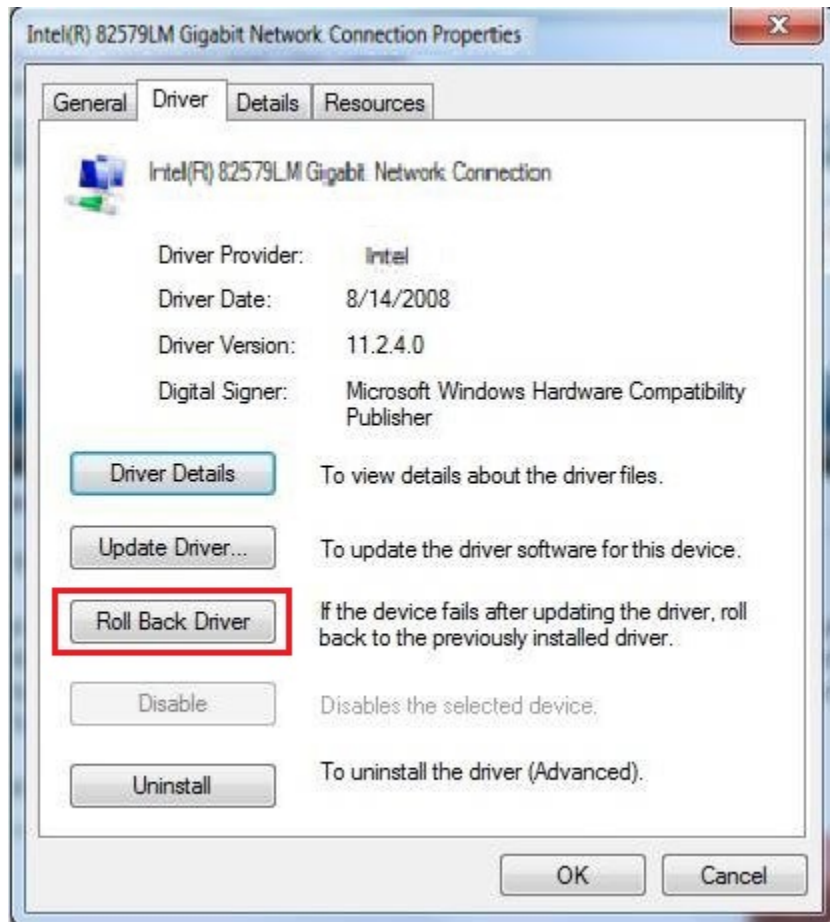
8.Windows Access Controls

Access control refers to security features that control who can access resources in the operating system. Applications call access control functions to set who can access specific resources or control access to resources provided by the application.
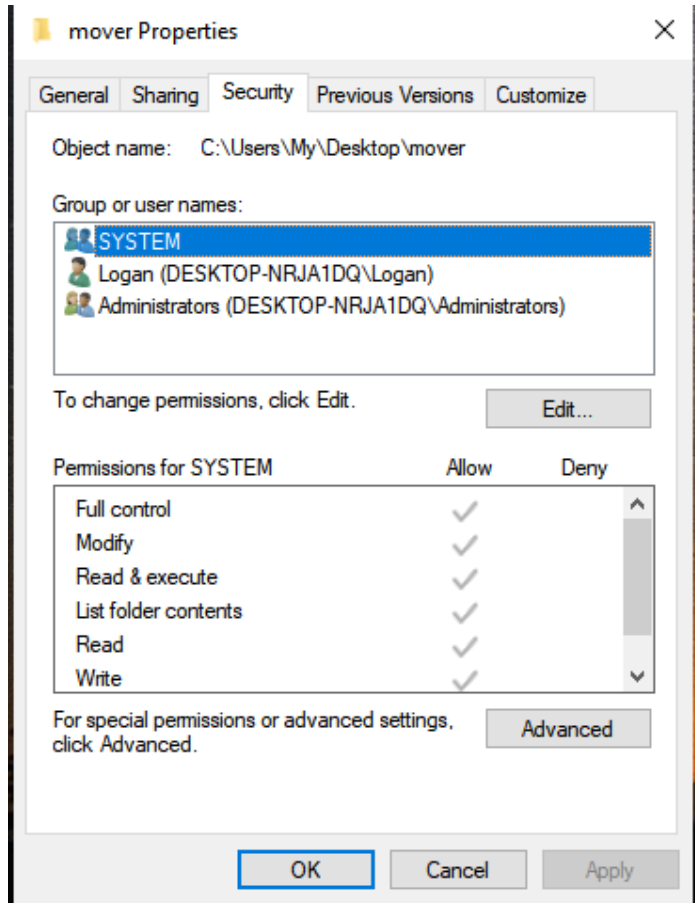
9.NTFS Permissions

NTFS permissions are used to manage access to the files and folders that are stored in NTFS file systems.
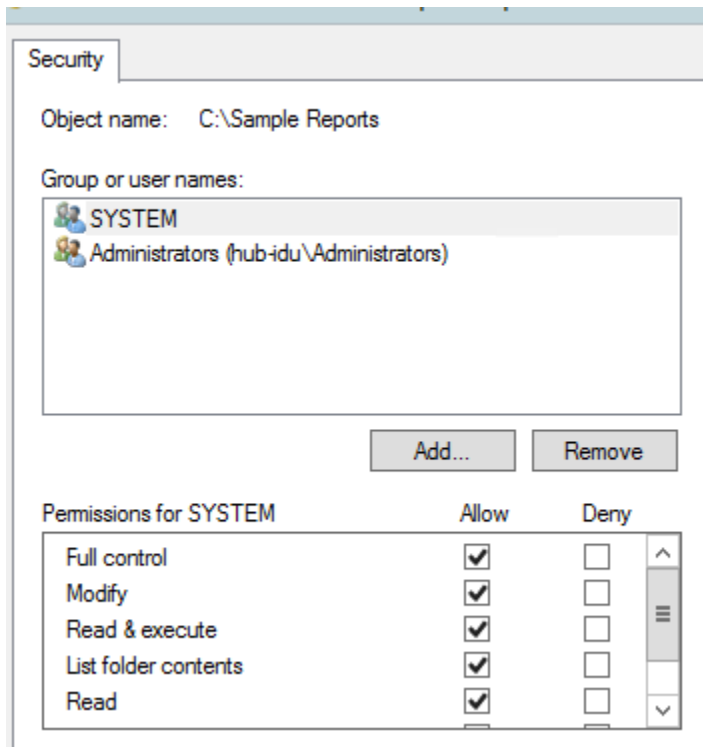
10.Shared Folder Permissions

Share permissions manage access to folders shared over a network; they don't apply to users who log on locally. Share permissions apply to all files and folders in the share; you cannot granularly control access to subfolders or objects on a share. You can specify the number of users who are allowed to access the shared folder. Share permissions can be used with NTFS, FAT and FAT32 file systems.