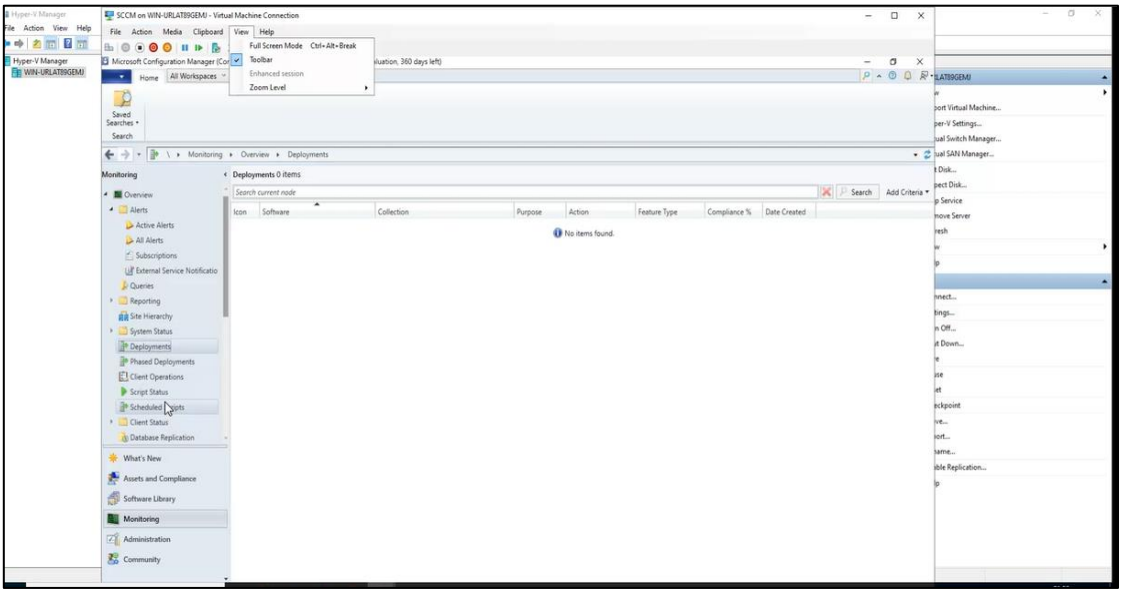
Managing the Configuration Manager Client

- **Discovery and Deployment:**

  Discovery: SCCM uses **build-in methods** like Active Directory Discovery to **locate devices** in your network **that don't have the client installed**.

  Deployment: Install the client software using various methods, including **client push installation, software update-based installation**, **Group Policy, manual installation**, etc.

Deployment:



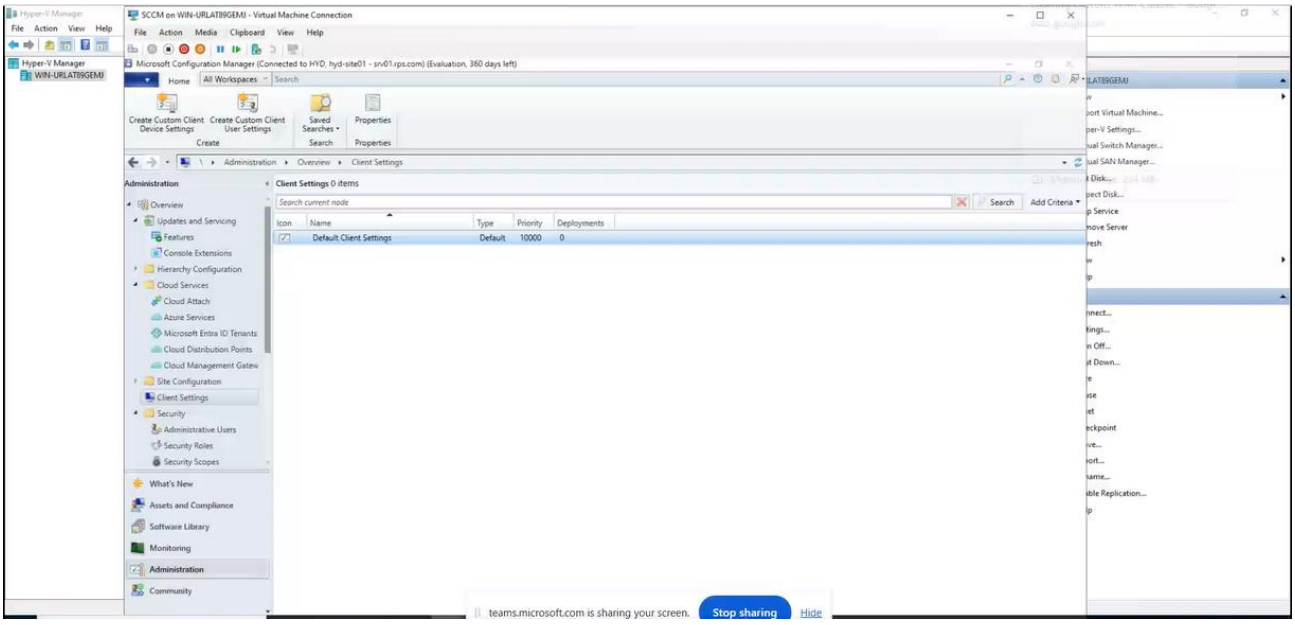
- **Configuring Client Settings**

  Access: Manage all client settings through the Client Settings node (in the Administration)

  Default vs. Custom: Default settings (apply to all clients), Custom settings (targeted to specific collections).

  Client Settings: Includes Software Updates, Client Activity, and Client Check, to manage client behavior and compliance.

Client Settings:



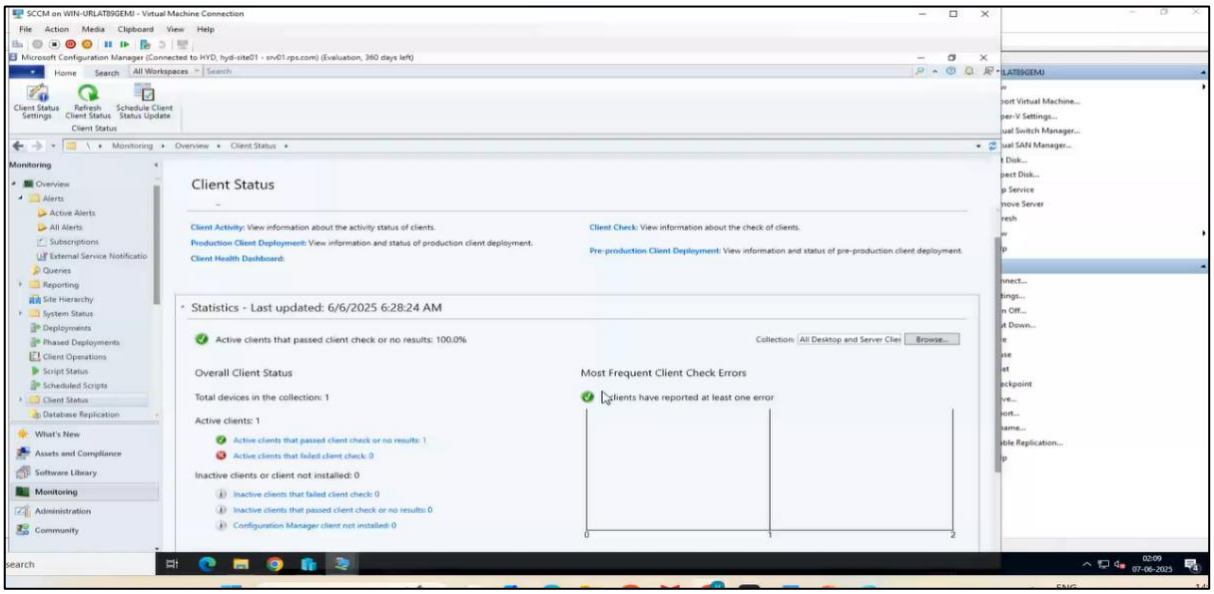
- **Managing the Client Cache**

  The client cache stores files needed for deployments, like software updates and packages. Manage the space used to temporarily store downloaded files on the client.
  The **client cache** stores: Software packages, Updates, Scripts and also we can use "Delete Files" option in the control panel to remove files in the cache when needed.

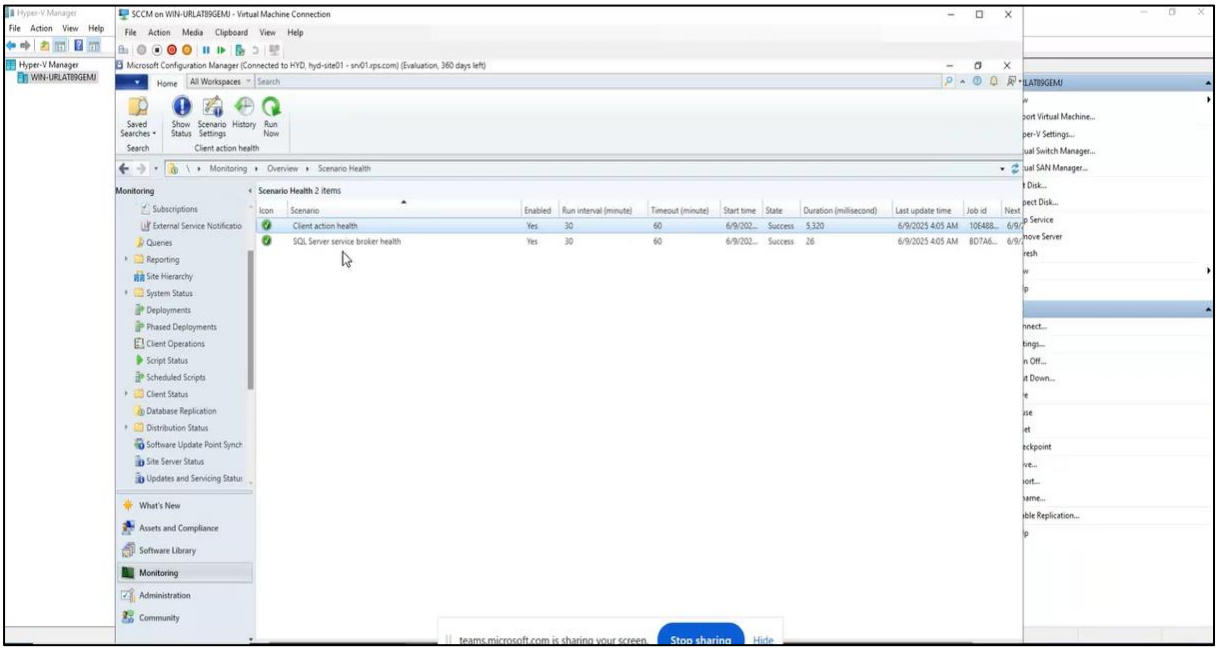
- **Monitoring Client Status**

  In Monitoring we check the status, View health, and alerts for all clients.
  Alerts can notify you if a certain percentage of clients go inactive or fail health checks

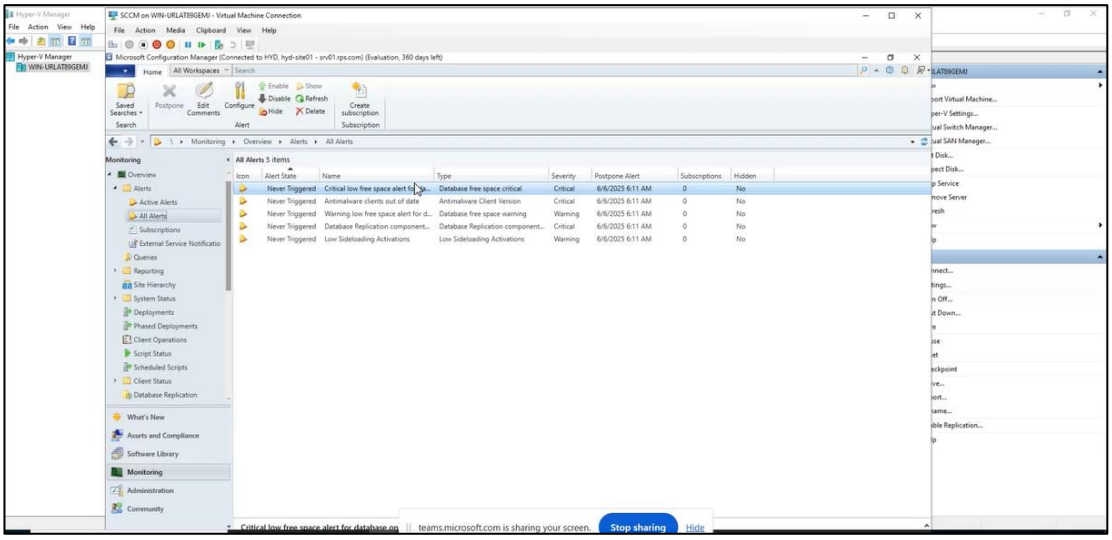
Client Status:



Health:

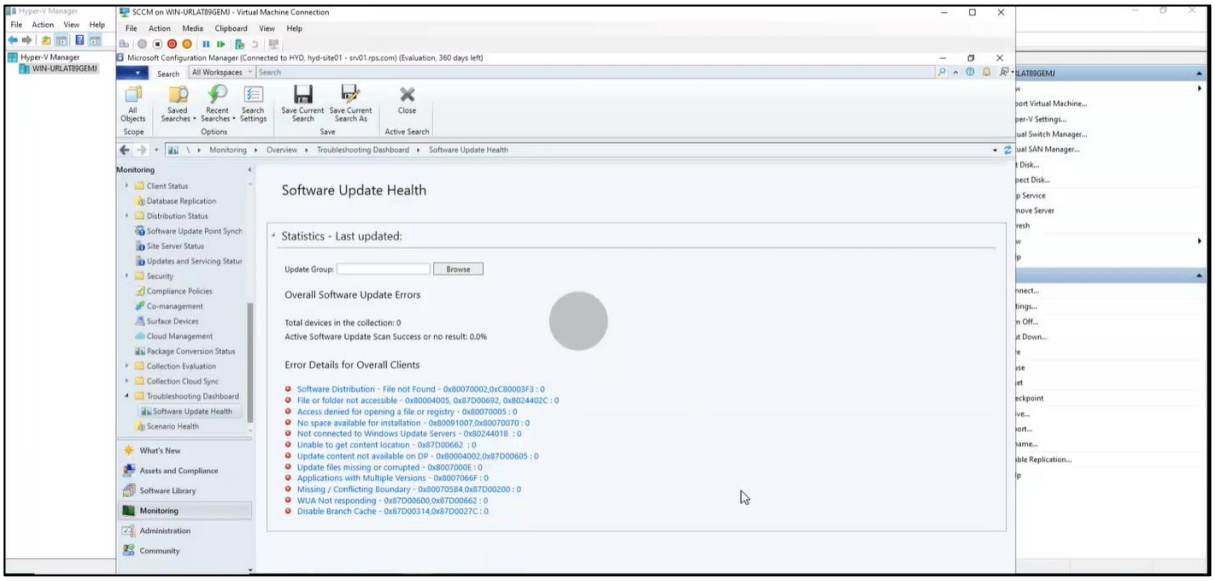


Alert:

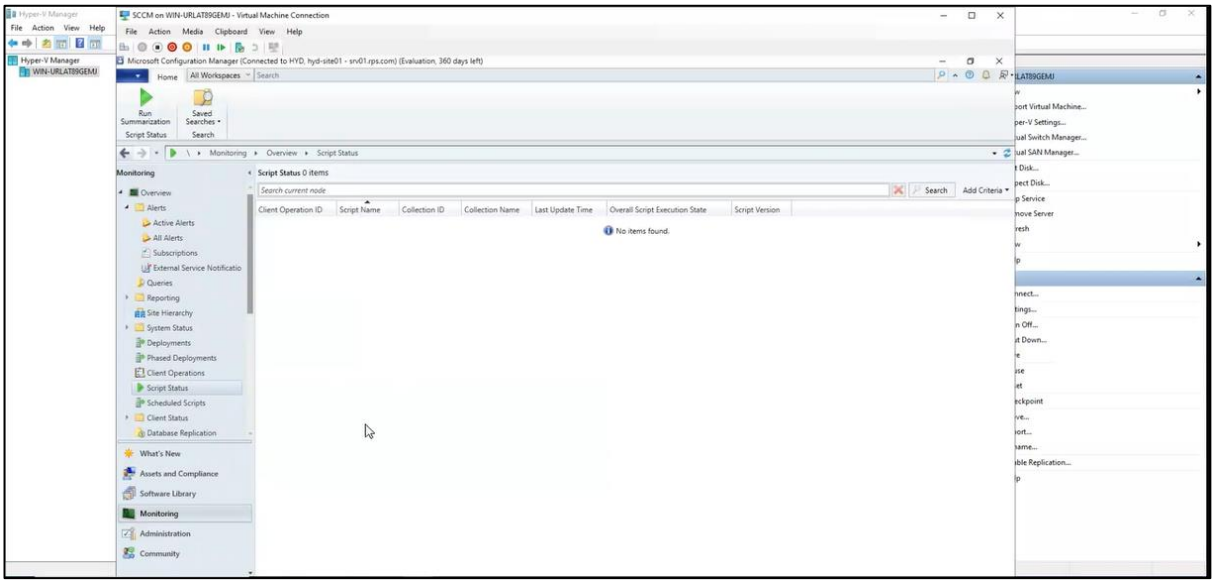


- **Troubleshooting**
  In Troubleshooting, fix issues using Software Center, Control Panel, and command-line tools. Client issues like failed installations, updates, or communication.
  Software Center: Installed on each client, allows users to install apps, view updates, and see device compliance.
  ConfigMgr Control Panel Applet (smscfgrc): Use the ConfigMgr client applet to check the client's core configuration, troubleshoot client-related issues.
  Command Line Tools:Use tools like ccmrepair, ccmsetup, and control smscfgrc for fixing and accessing client settings

Troubleshooting Dashborad:



Script Status: Here the scripts are present and on the top we have **Run Summarization** to run the script



Configure Software Metering

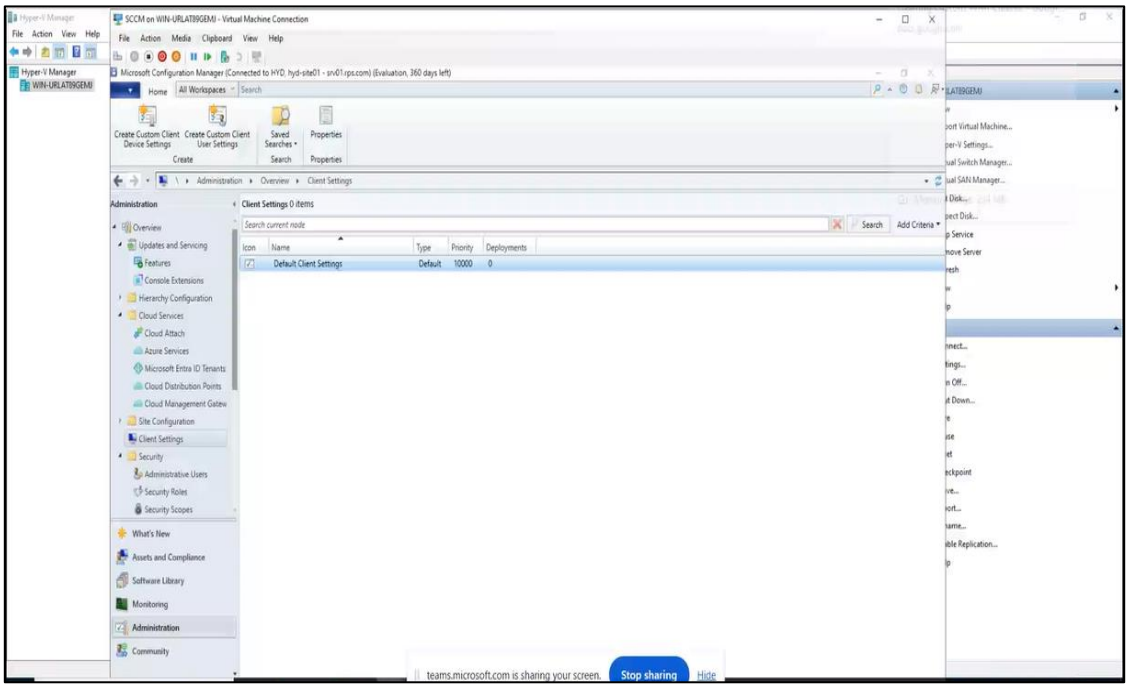
Software Metering in SCCM helps you **track software usage** on client computers.
It tells us: Which applications are being used, How frequently they are used, Helps make decisions about software licenses (keep/remove).

This procedure configures the default client settings for software metering and applies to all computers in your hierarchy. If you want these settings to apply to only some computers, create a custom device client setting and deploy it to a collection that contains the computers on which you want to use software metering.

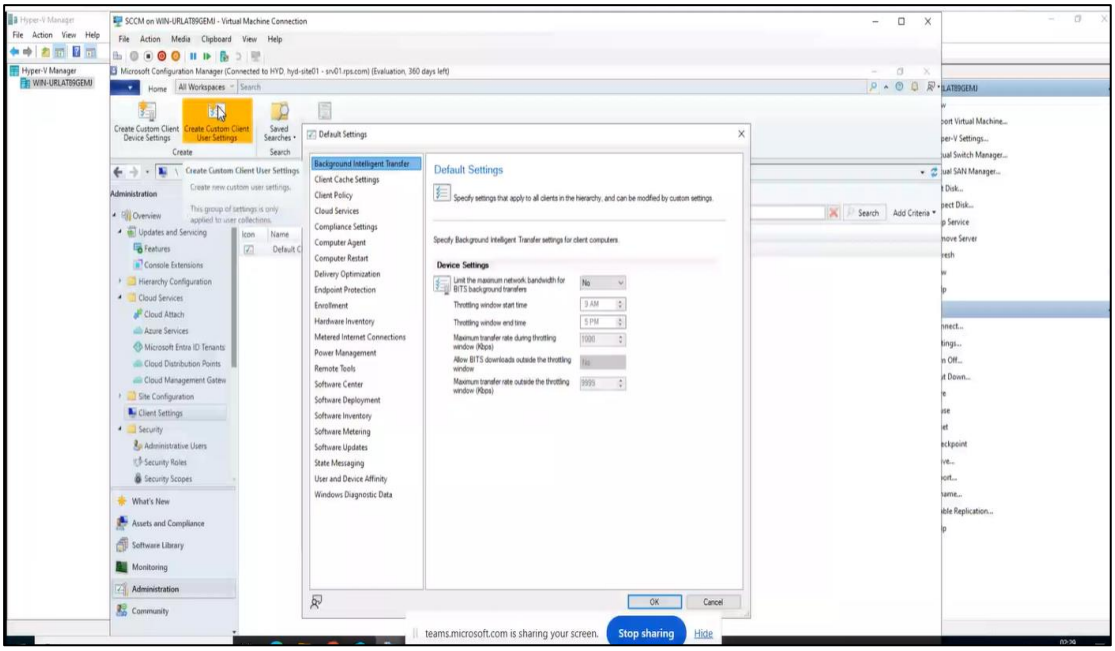
Steps:

1. In the Configuration Manager console, click **Administration** > **Client Settings** > **Default Client Settings**.
2. On the **Home** tab, in the **Properties** group, click **Properties**.
3. In the **Default Settings** dialog box, click **Software Metering**.
4. In the **Device Settings** list, configure the following:
    - **Enable software metering on clients**: Select **True** to enable software metering.
    - **Schedule data collection**: Configure how often software metering data is collected from client computers. Use the default value of every **7 days** or click **Schedule** to specify a custom schedule.
5. Click **OK** to close the **Default Settings** dialog box.

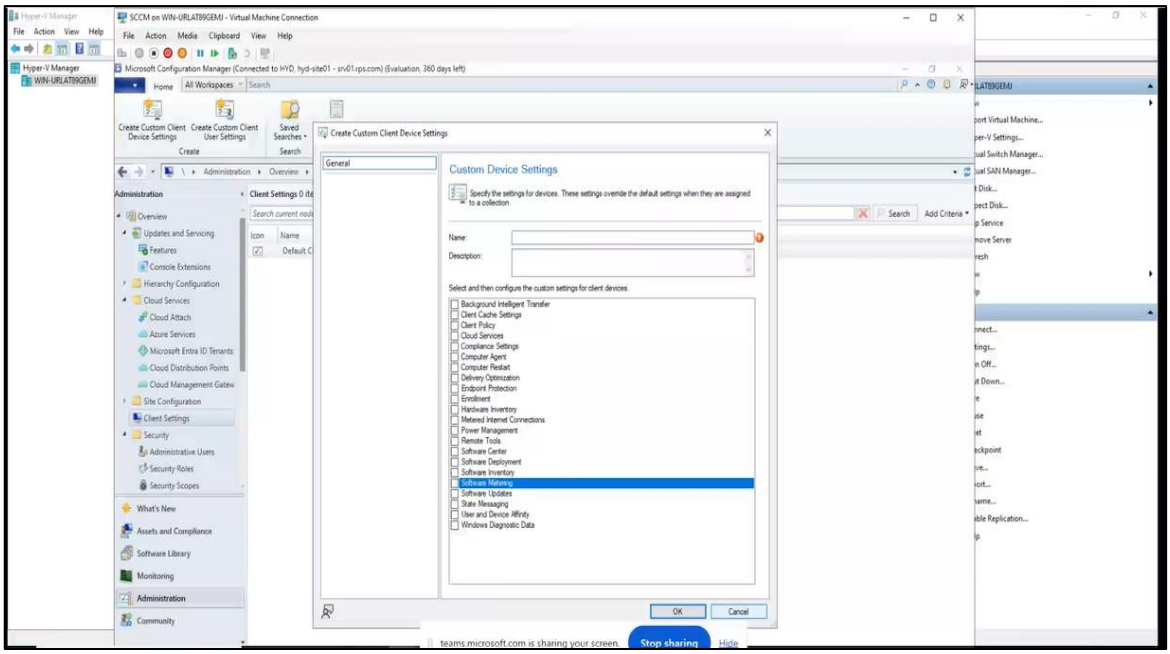
Client Setting:



Default Settings:



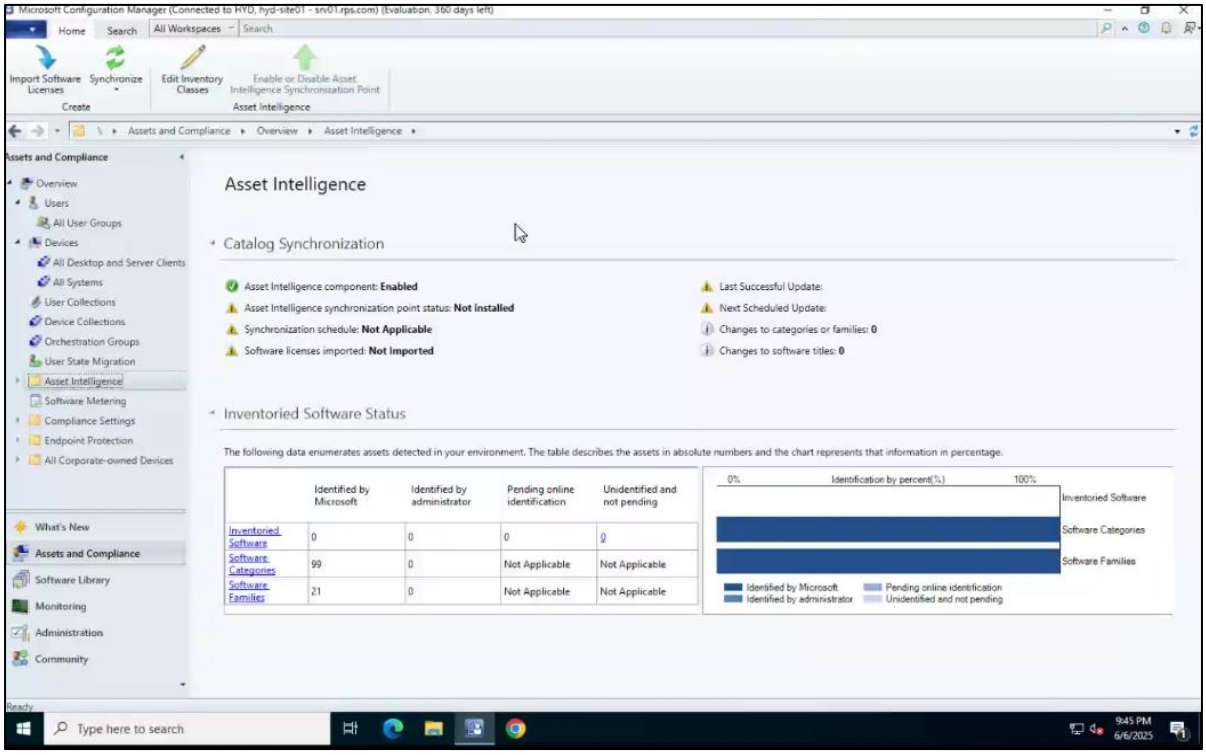
Custom device settings :



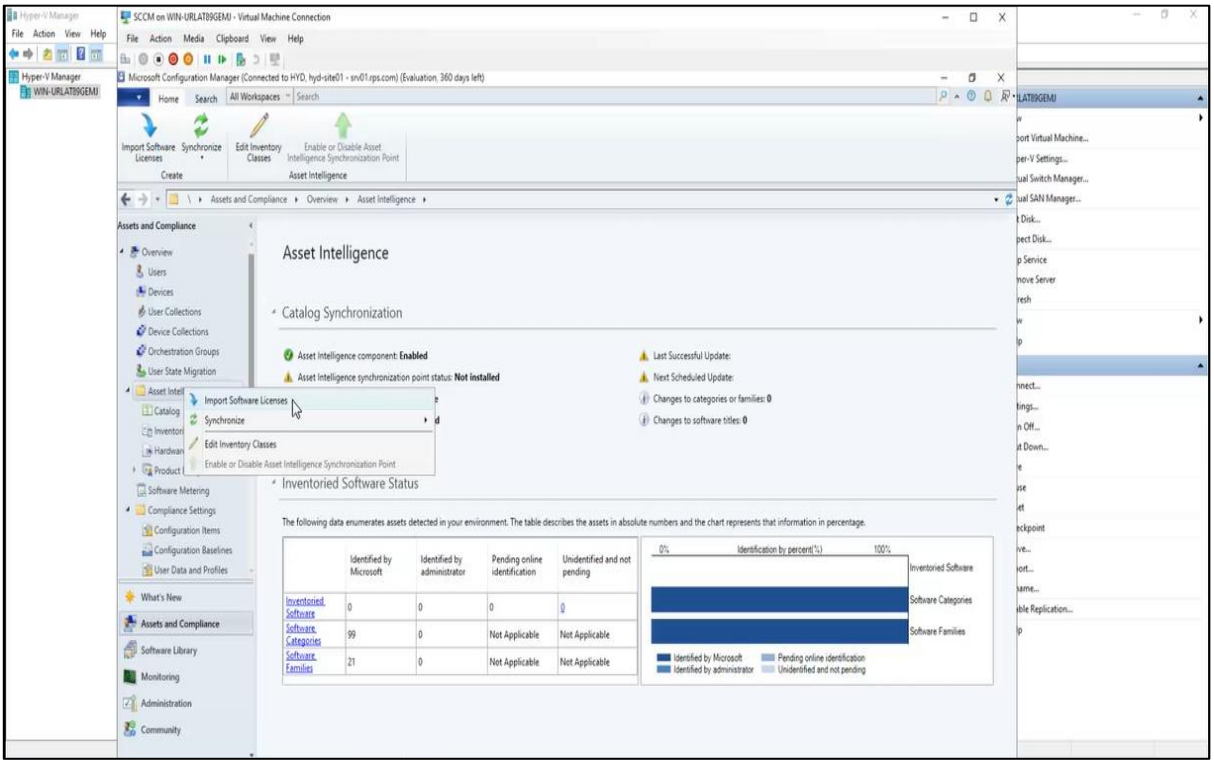
Importing Software Licenses in Asset Intelligence

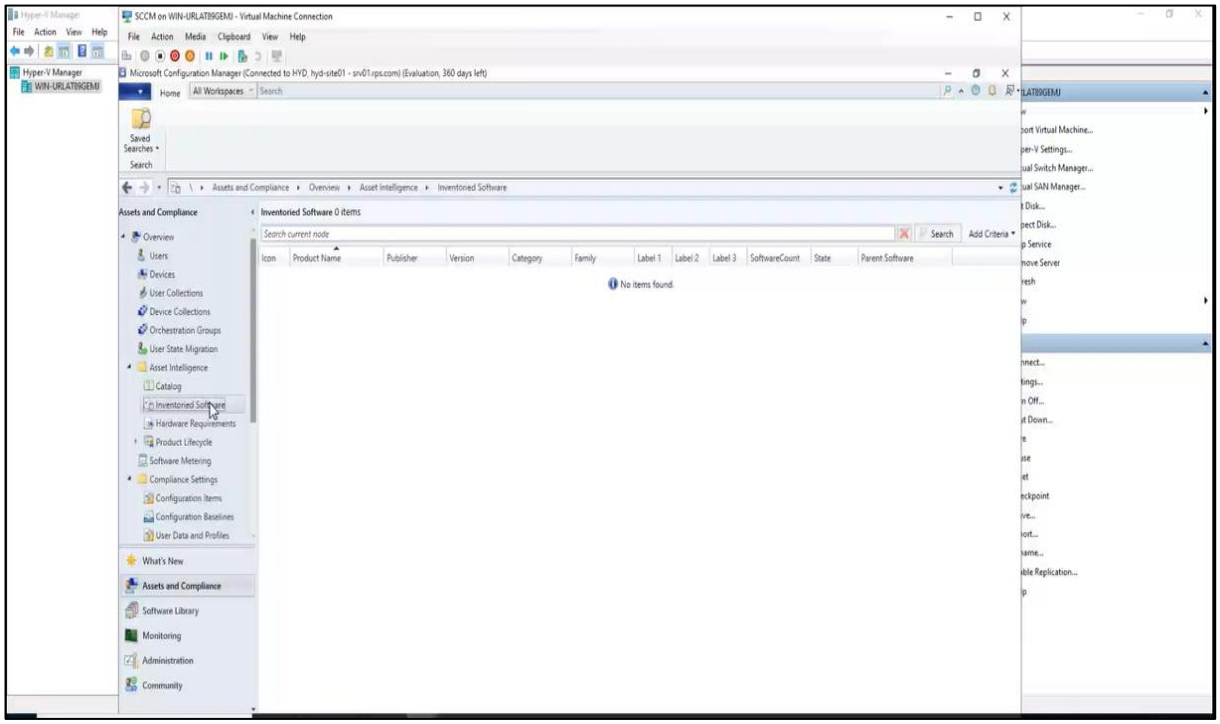
Steps:

1. **Navigate to Asset Intelligence:** Go to **Assets and Compliance** ->**Assets Intelligence**



2. **Initiate the import :** Right click on **Asset Intelligence** and select "**Import Software Lincenses**"





3. **Specify the License File Type:** Select an **MVLS file (.xml or .csv)** or a **General License Statement file (.csv**

4. **Provide the License File Path:** Enter the **UNC** path to the license file or browse to select it from a **network share**.

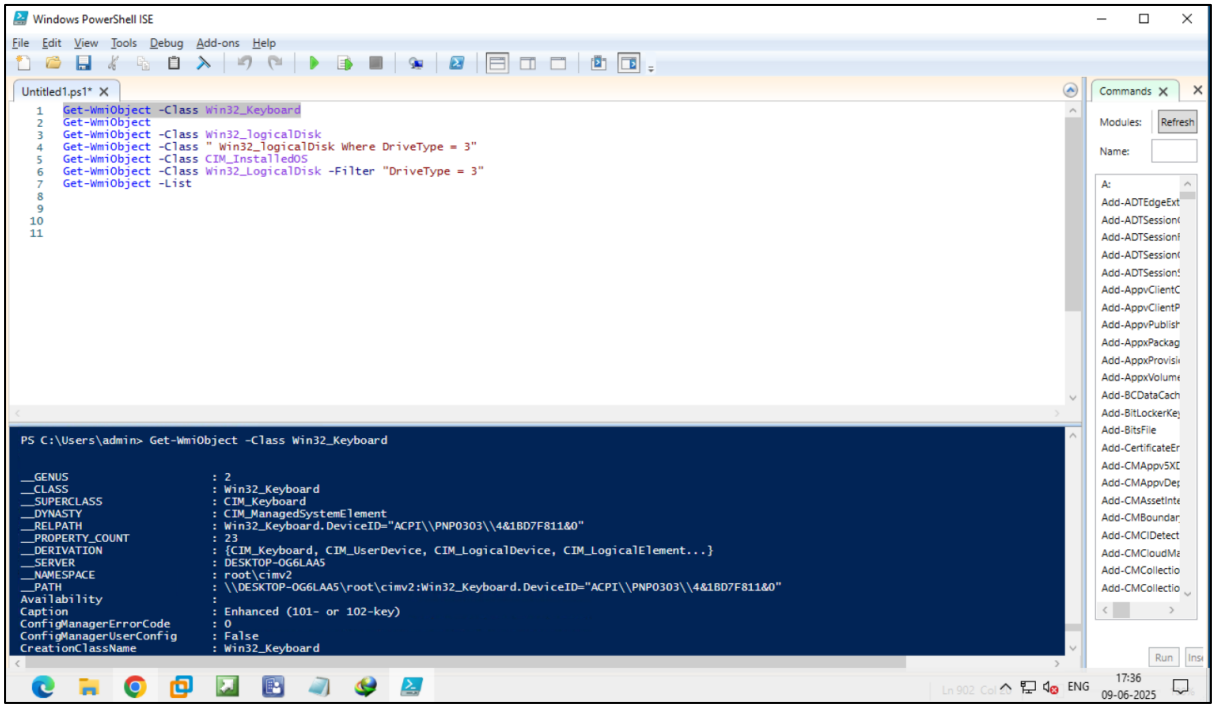
5. **Complete the Wizard:** Follow the prompts of the **Import Software License Wizard** to complete the process.

6. **Verify Permissions:** Ensure the shared folder where the license file is located is properly secured and that the computer account running the wizard has **"Full Control"** permissions to the share.

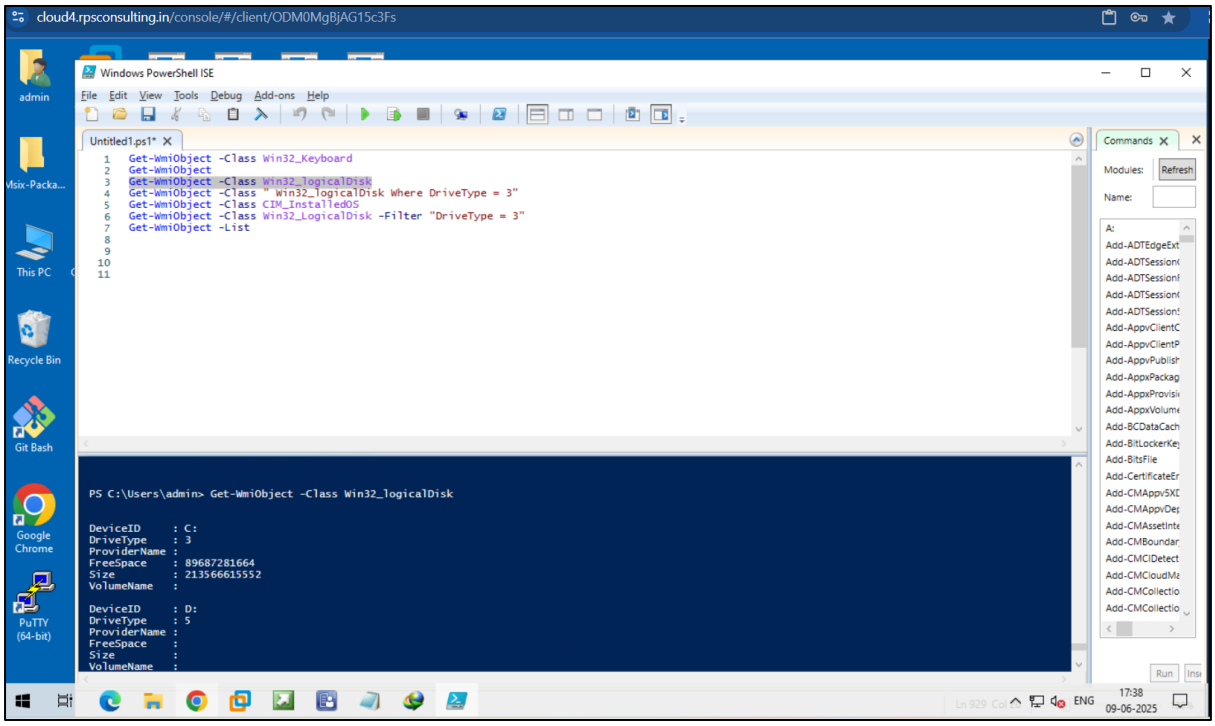
Get-WmiObject

Get-WmiObject is a PowerShell cmdlet used to **retrieve management information** from local and remote Windows computers using **Windows Management Instrumentation (WMI)**. WMI provides **access to information** about the operating system, hardware, and installed software.

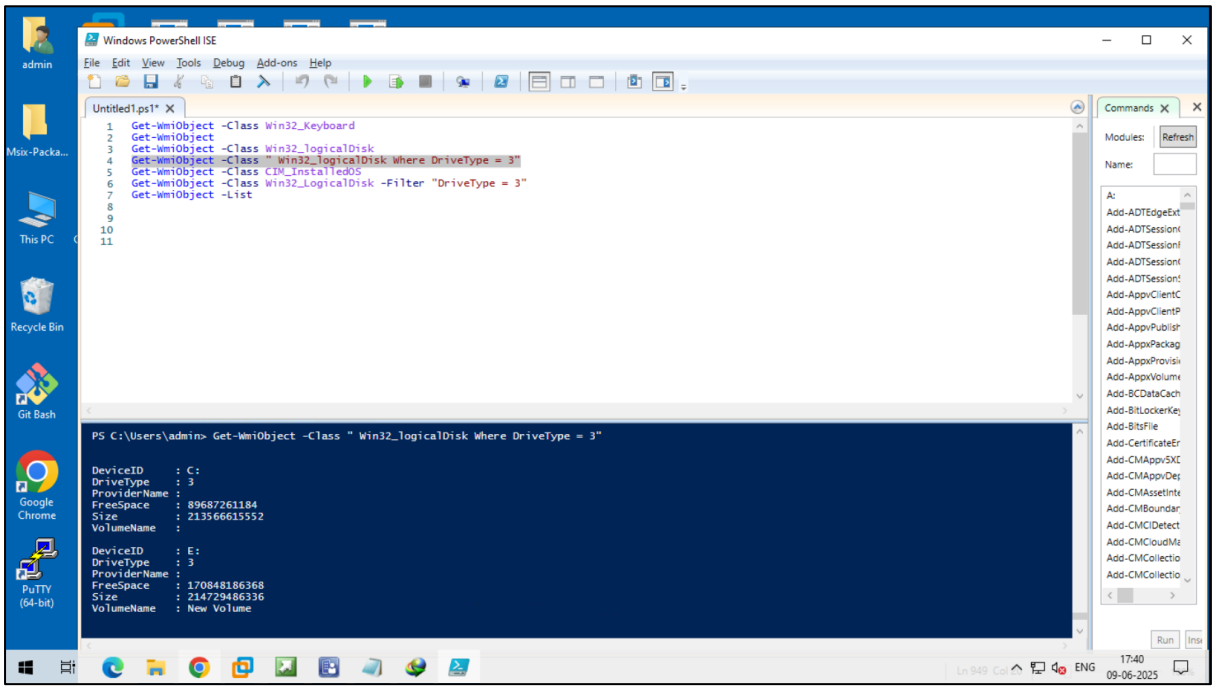
- Get-WmiObject -Class Win32_Keyboard: it gets the information of the windows keyboard



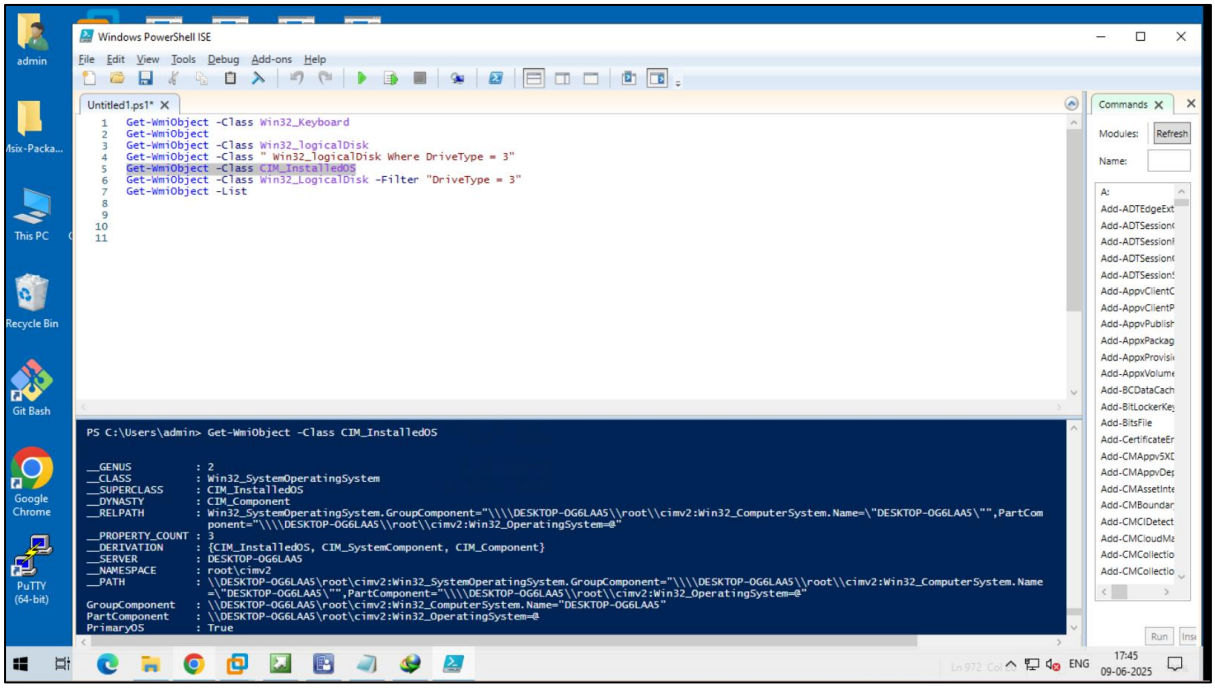
- Get-WmiObject -Class Win32_logicalDisk: Gives the information of the disk drive



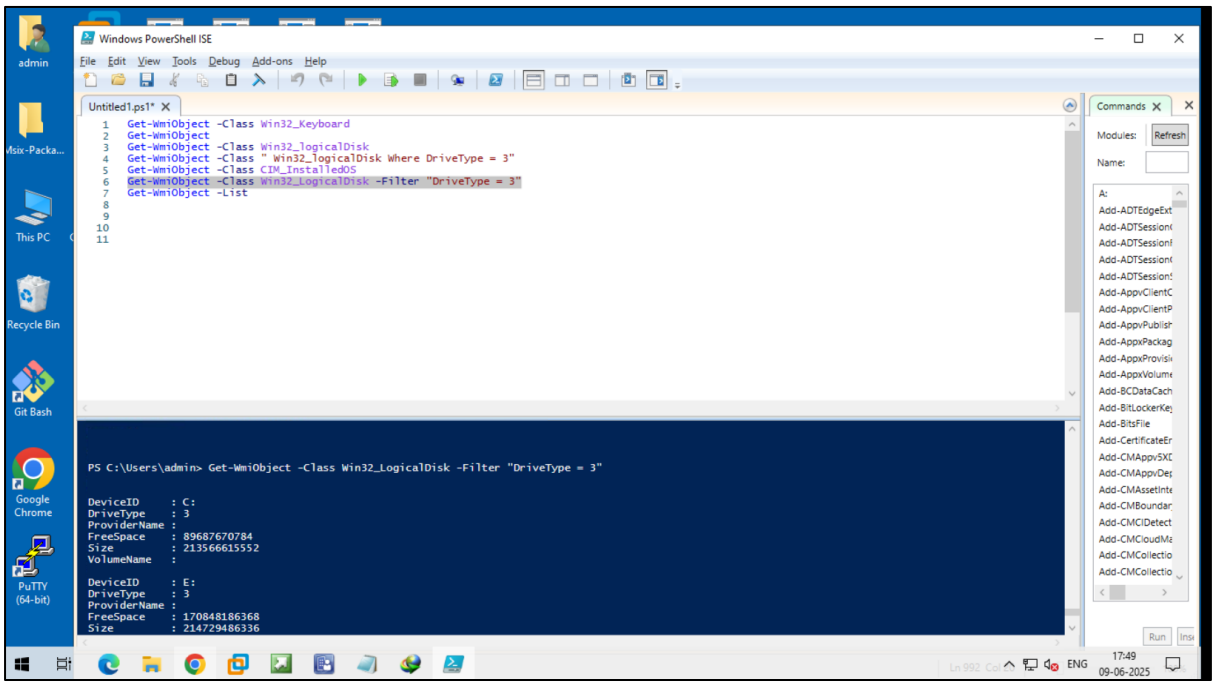
- Get-WmiObject -Class “Win32_ logicalDisk where DriverType=3” : This filters the drive



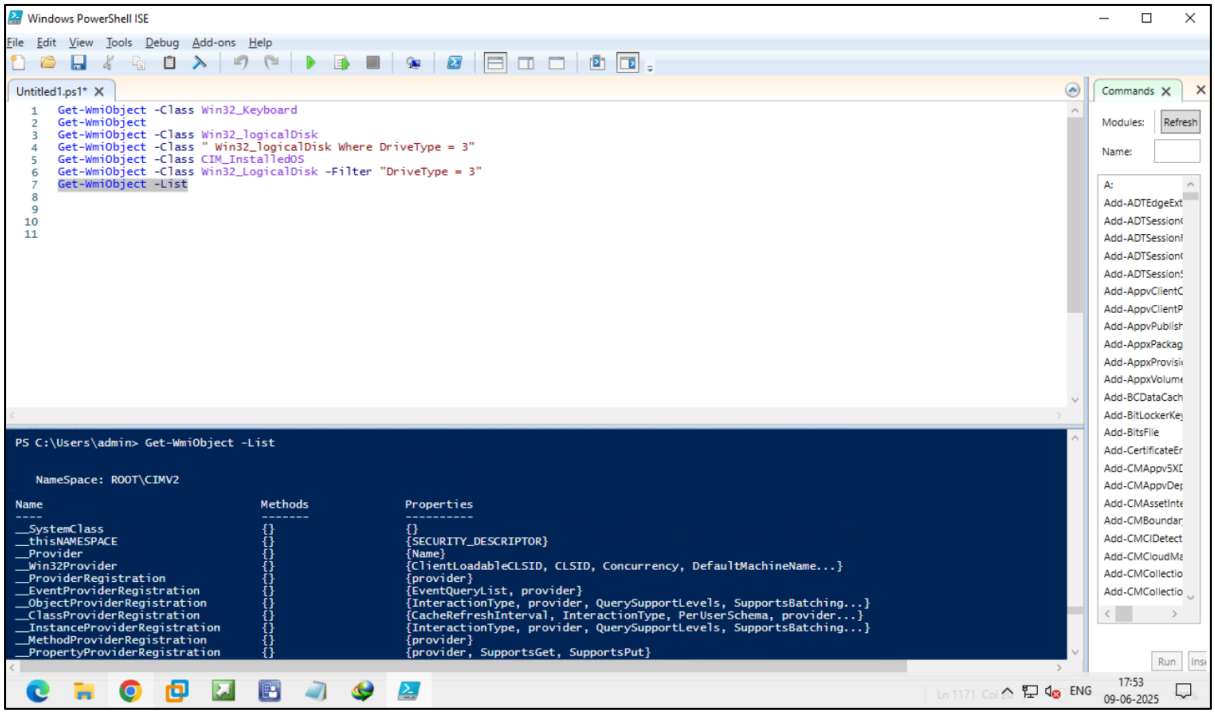
- Get-WmiObject -Class CIM_InstalledOS: Gives the information about the Operating System which is installed in the System.



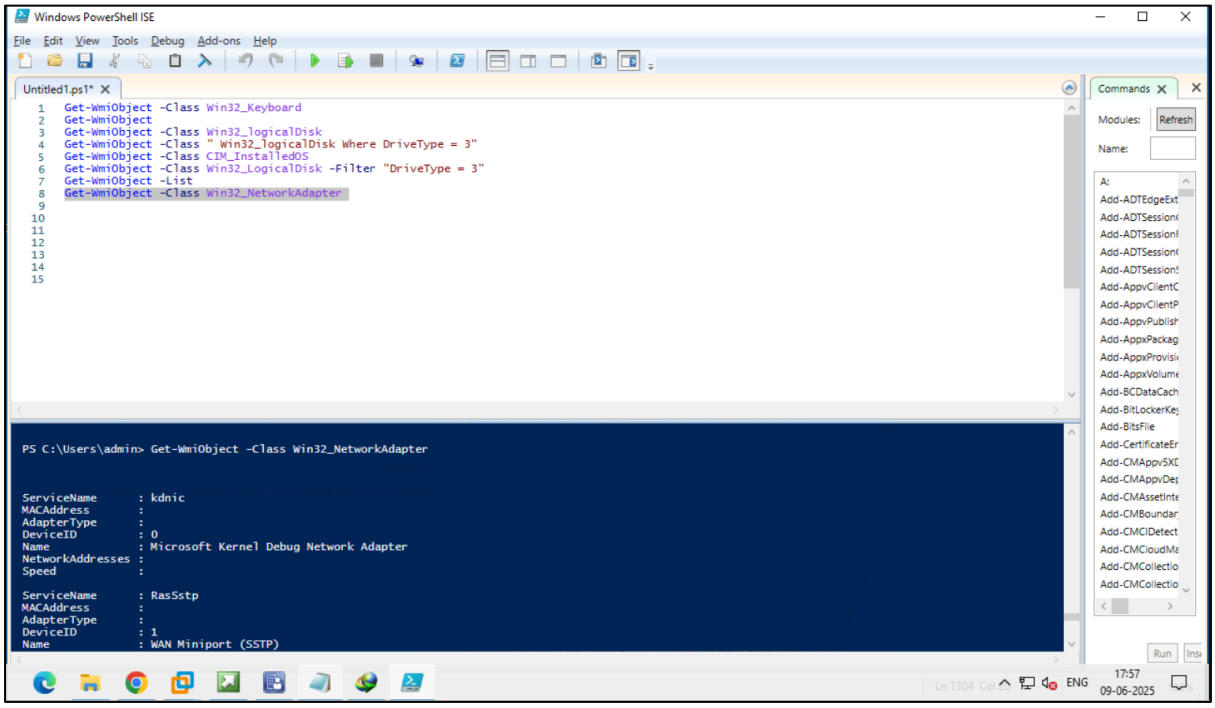
- Get-WmiObject -Class Win32_LogicalDisk -Filter “DriverType=3”: This filters the driverType 3 from the Disk Driver



- Get-WmiObject -List: This gives us the class names which are present.



- Get-WmiObject -Class Win32_NetworkAdapter



All Commands