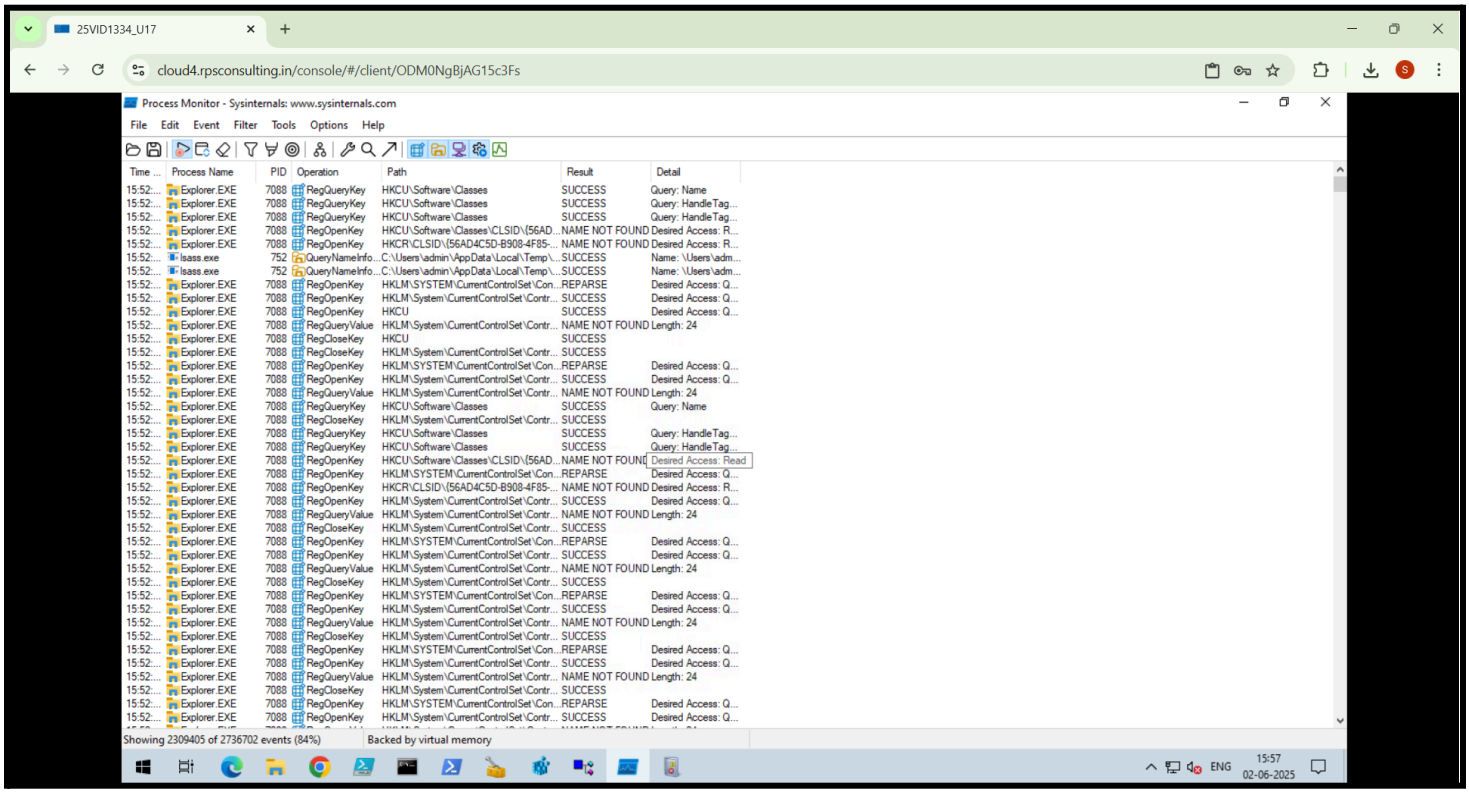
Step-by-Step Process of Process Monitor, Dependency Walker, Event Viewer and ACT

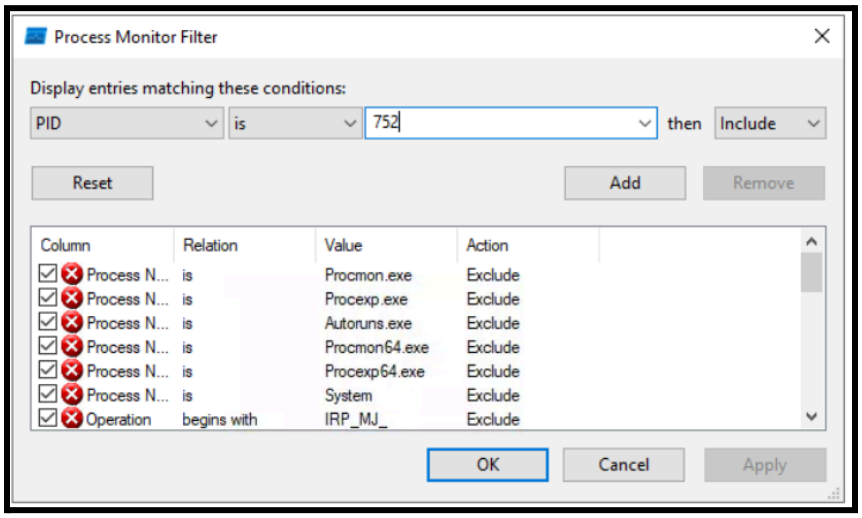
Process Monitor:

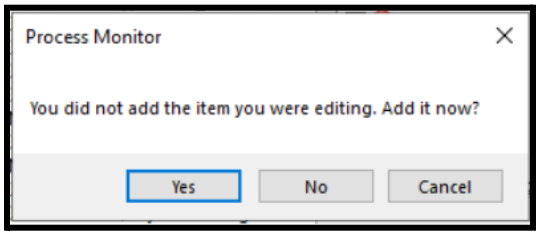
- Process Monitor is an advanced monitoring tool for Windows that shows real-time file system, Registry and process/thread activity.
- It combines the features of two legacy Sysinternals utilities, Filemon and Regmon.
- It captures file system, registry and process activity in real-time.
- Use filters to narrow down the captured events to specific processes or operations.
- It monitors file access, registry keys and process behaviour to pinpoint issues.
- The benefits include offering a detailed view of system interactions, helping to diagnose application startup issues, file access problems and more.

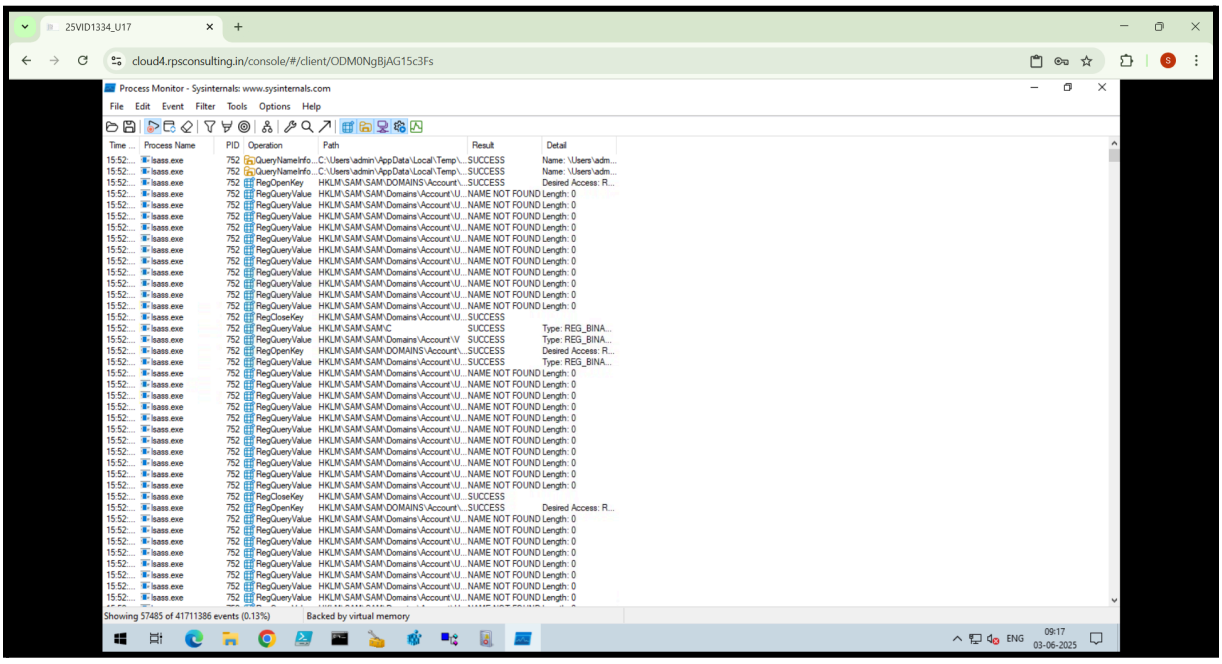


Steps:

- Download the **Process Monitor** from the link https://learn.microsoft.com/en-us/sysinternals/downloads/procmon
- Extract the **ProcessMonitor.zip** file and run the **Procmon.exe** file.
- To filter the processes click on the **Filter** option (or use Ctrl+L) and then a window will appear, in that select the appropriate parameters for filtering. Example: **PID** in first dropdown, **is** in second dropdown, **752** in third dropdown, **Include** in fourth dropdown, then press **OK**.
- Then a dialog box comes asking **You did not add the item you were editing. Add it now?** So press **Yes**.
- All the processes which are filtered will be shown (Here, for example all the processes with PID as 752 are shown).

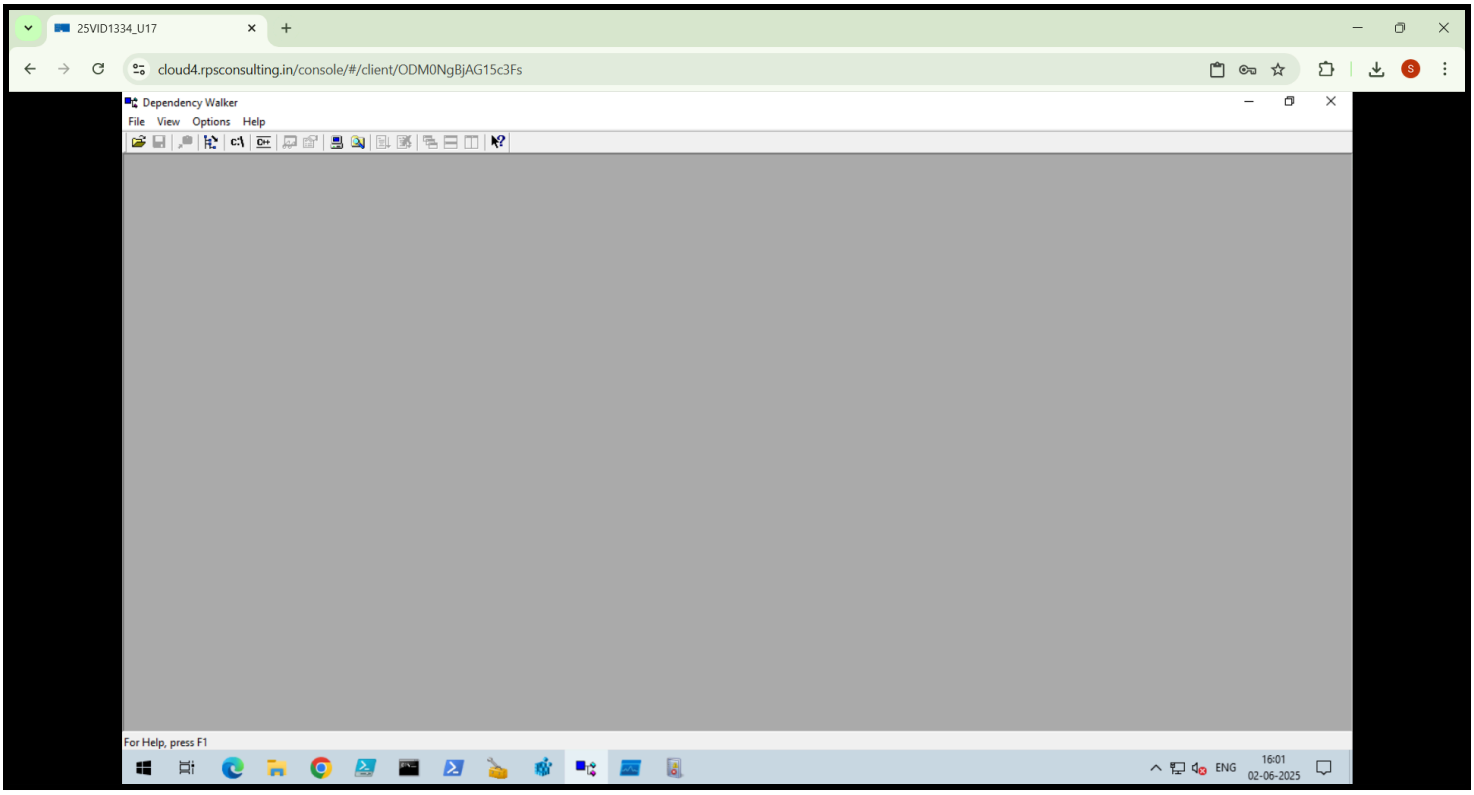






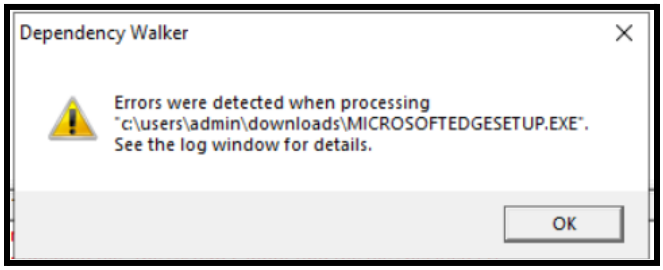
Dependency Walker:

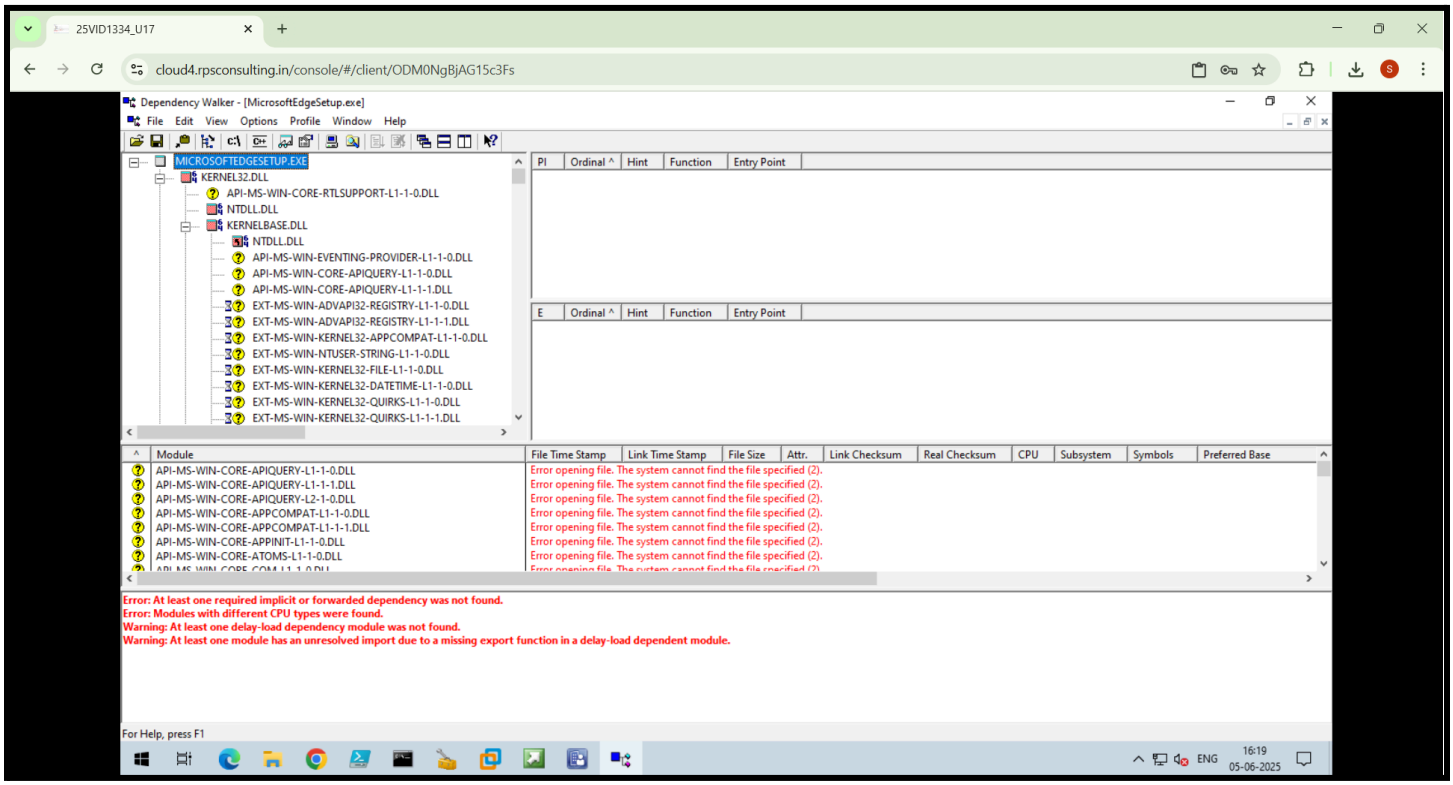
- Dependency Walker is a free utility that scans any 32-bit or 64-bit Windows module (exe, dll, ocx, sys) and builds a hierarchical tree diagram of all dependent modules.
- For each module found it lists all the functions that are exported by that module and which of those functions are actually being called by other modules.
- It identifies missing or incorrect dependencies such as Dlls.
- Dependency Walker is also very useful for troubleshooting system errors related to loading and executing modules.
- It helps resolve problems caused by missing or corrupted dependencies ensuring that applications function correctly.
- It runs on Windows 95, 98, Me, NT, 2000, XP, 2003, Vista, 7, and 8.



Steps:

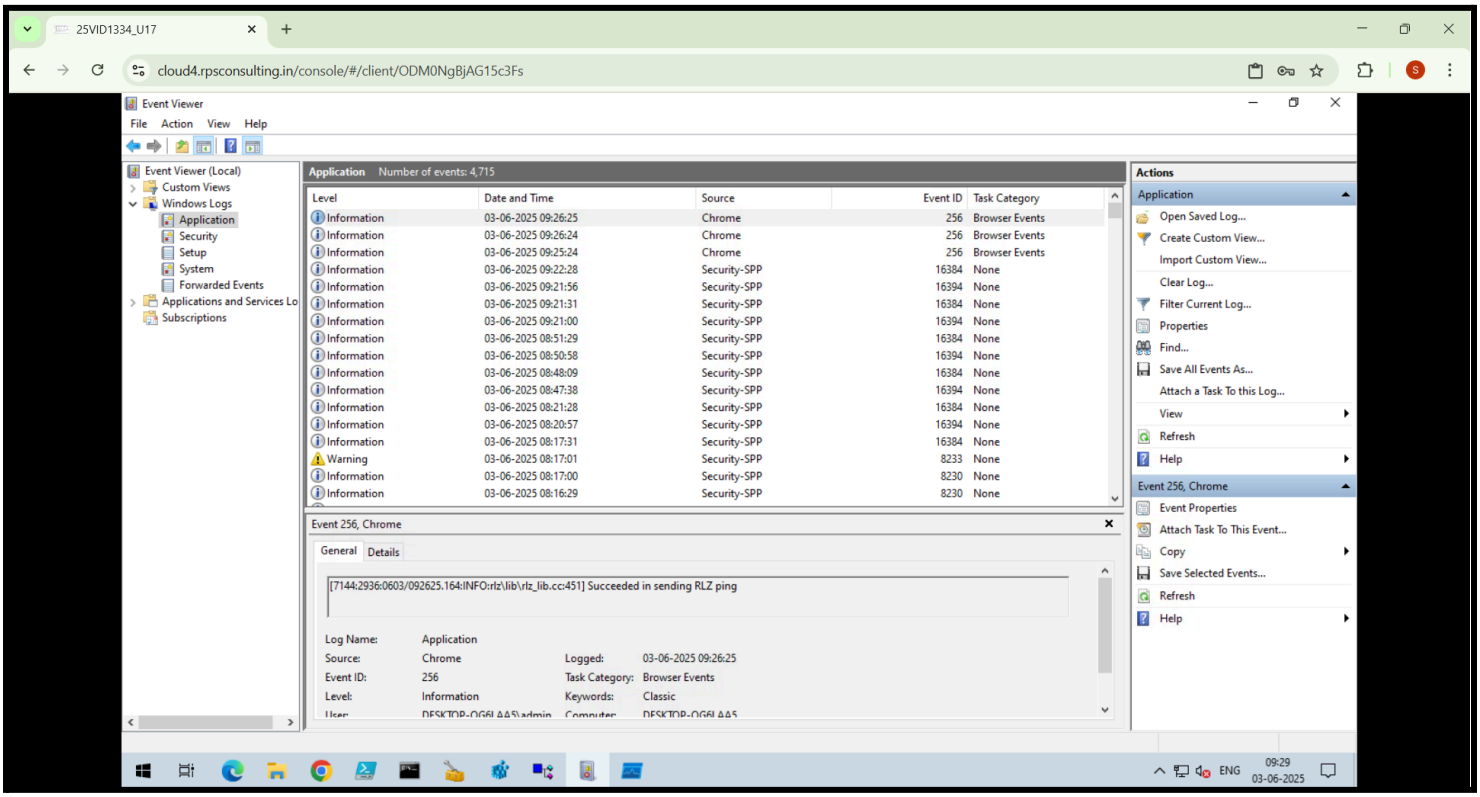
- Download the **Dependency Walker** from the link http://dependencywalker.com/
- Extract the **depends22_x64.zip** file and run the **depends.exe** file.
- Click **File** and then click **Open** and select any .exe file.
- Analyze the errors shown in the logs window.





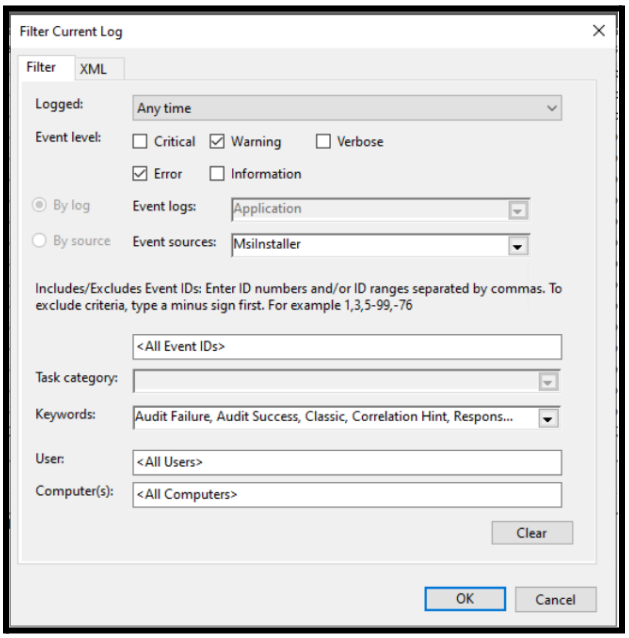
Event Viewer:

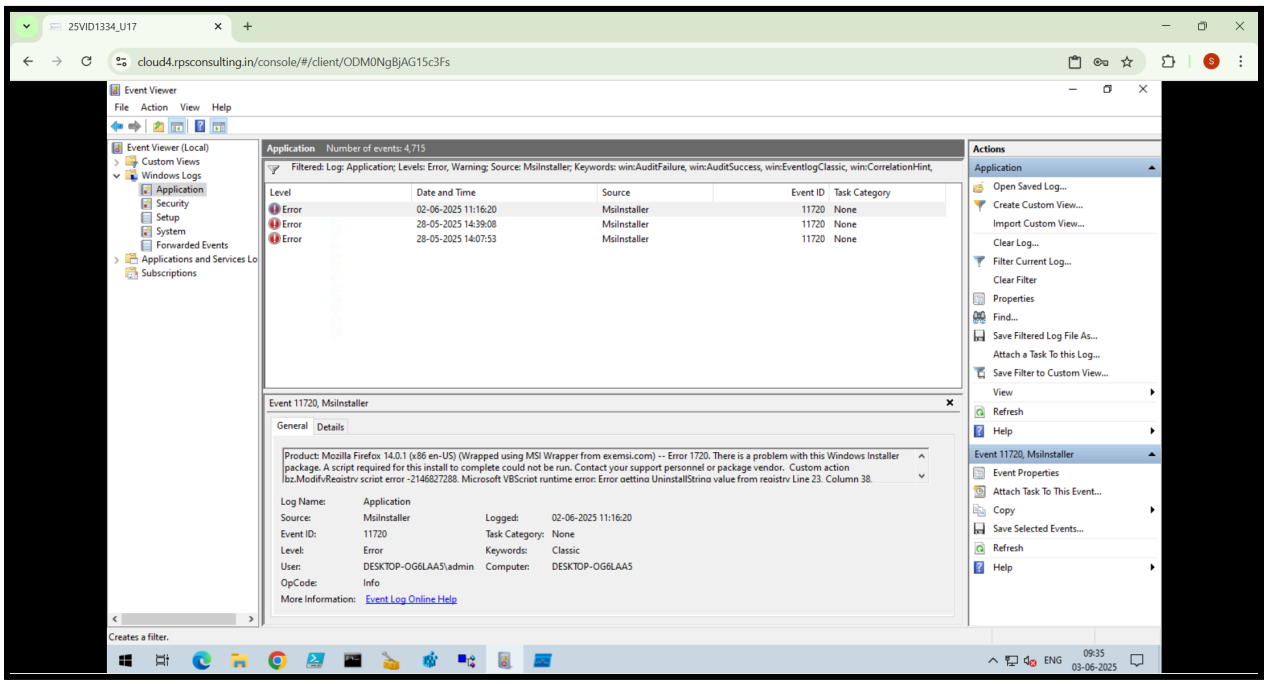
- Event Viewer is used to identify the System-Level Errors related to the installation.
- It is used for troubleshooting problems, monitoring security events, diagnosing system or application errors and more.
- Its functions are to log system events including errors, warnings and information messages.
- It searches for relevant error messages, warnings or event IDs to understand the nature of the problem.
- It provides a historical record of system activity, helping to identify recurring problems and pinpoint the source of errors.



Steps:

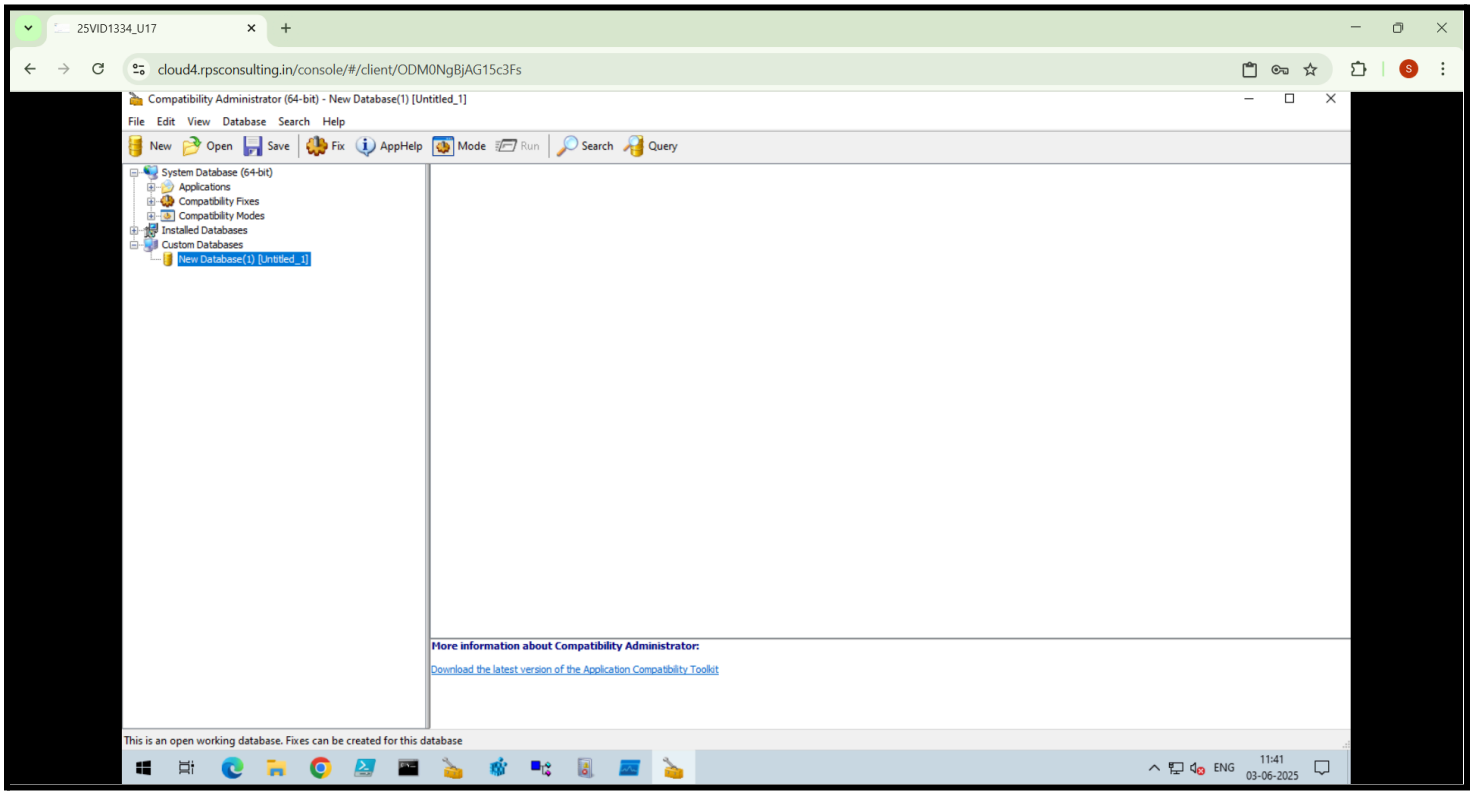
- Open **Event Viewer** from the Start Menu.
- Navigate to the **Windows Logs** and expand it, in that **Application, Security, Setup** and **System** are available, so select the one where events will be present. For eg. in the Application, 4715 Events are present.
- In the **Actions** pane (right side), click **Filter Current Log**.
- In the **Filter Current Log** window, under **Event sources** select **MsiInstaller**. We can also filter by **Event level** for eg. **Error, Warning** to narrow down the results. Also under **Keywords** we can select **All keywords** and then click **OK** to apply the filter.
- Analyze the Event to identify the cause of MSI installation error (in the bottom pane).





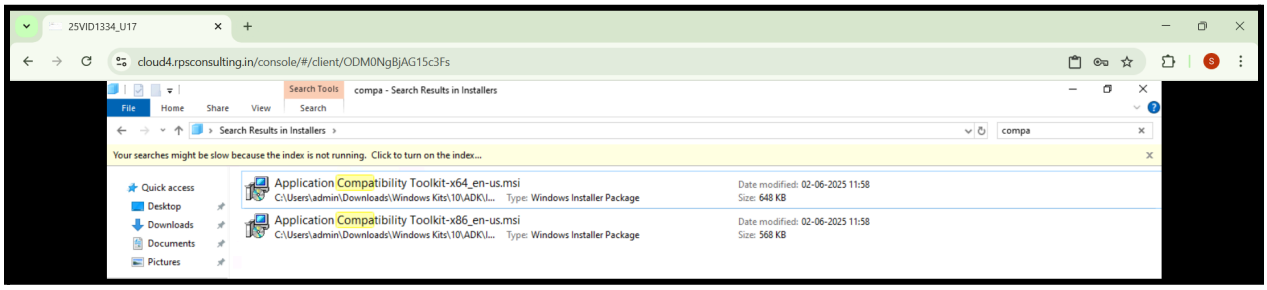
ACT (Application Compatibility Toolkit):

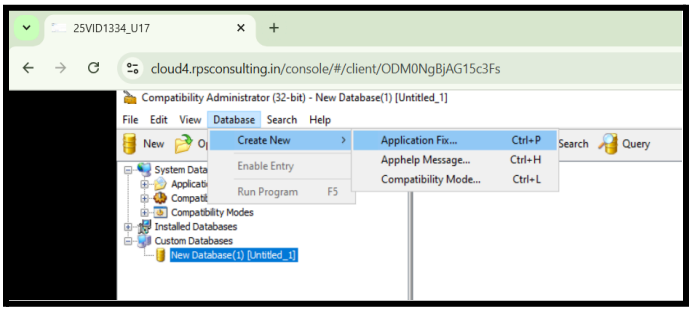
- The Microsoft Application Compatibility Toolkit (ACT) is a tool that assists in identifying and managing your overall application, reducing the cost and time involved in resolving application compatibility issues and helping us quickly to deploy Windows and Windows updates.
- With ACT we can analyze applications, websites and computers.
- We can manage compatibility of applications and configuration settings.
- It prioritizes application compatibility with filtered reporting.
- It is used to add and manage issues and solutions for our enterprise-computing environment.
- It is used to send and receive compatibility information from the Microsoft Compatibility Exchange.
- Shims, registry edits and virtualization are techniques used to enhance application compatibility and persistence on Windows systems.

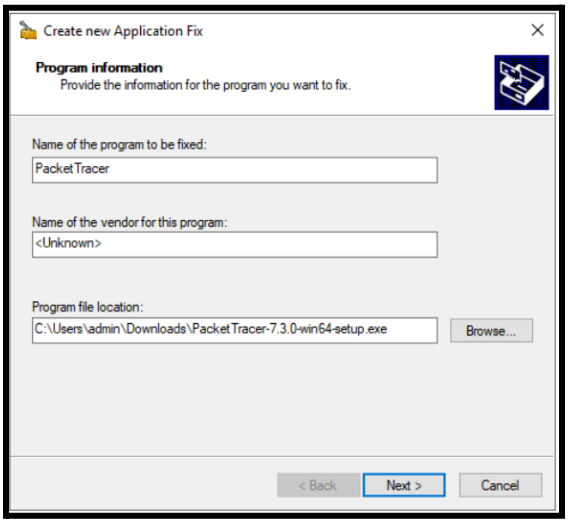


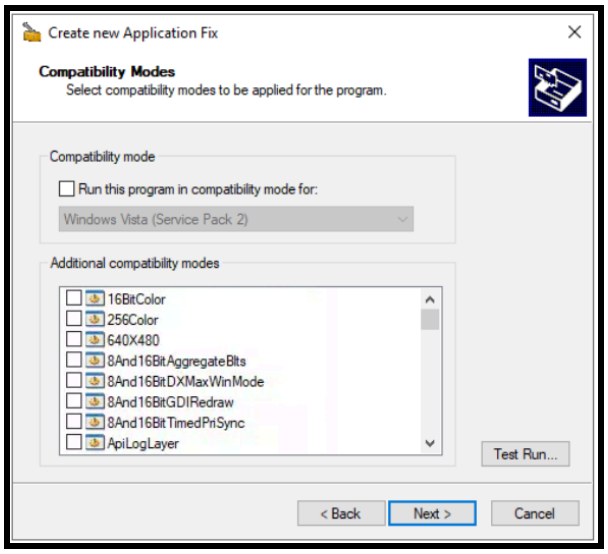
Steps:

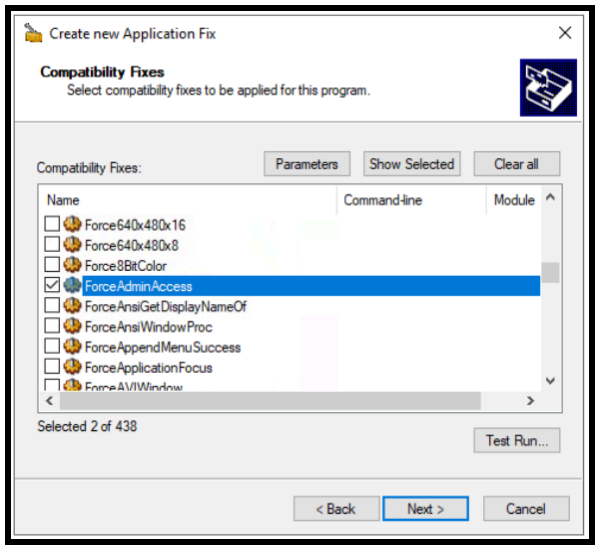
- Download the **ACT** from the link learn.microsoft.com/en-us/windows-hardware/get-started/adk-install#download-the-adk-101261002454-december-2024
- Run the **adksetup.exe** file and it creates a folder named **Windows Kits**.
- Navigate to the path Windows Kits\10\ADK\Installers and after that search for **Application Compatibility Toolkit**.
- Install any one of them according to the configurations of the device.
- Open **Compatibility Administrator (32-bit)** or **Compatibility Administrator (64-bit)**.
- Click on **Database** then click **Create New** then click **Application Fix**.
- In **Program Information** give **Name of the program to be fixed** and browse our .exe file in the **Program file location** and click **Next**.
- In **Compatibility Modes** do nothing and click **Next**.
- In **Compatibility Fixes** select **ForceAdminAccess**, **CorrectFilePaths**, etc checkboxes and click **Next**.
- In **Matching Information** do nothing and click **Finish**.
- Save this database file by clicking **Save As** and write the **Database Name** and click **OK** and then save it using the file name **MyFixess.sdb**.
- Open **Command Prompt** as **Administrator** and in **system32** write the command **sdbinst “C:\Users\admin\Downloads\MyFixess.sdb”**

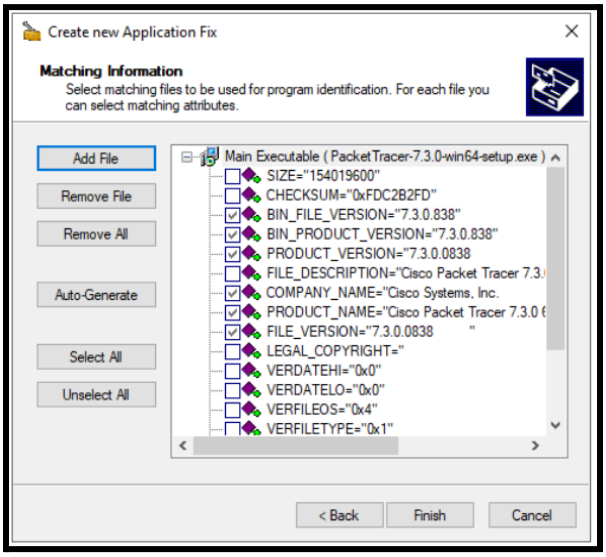


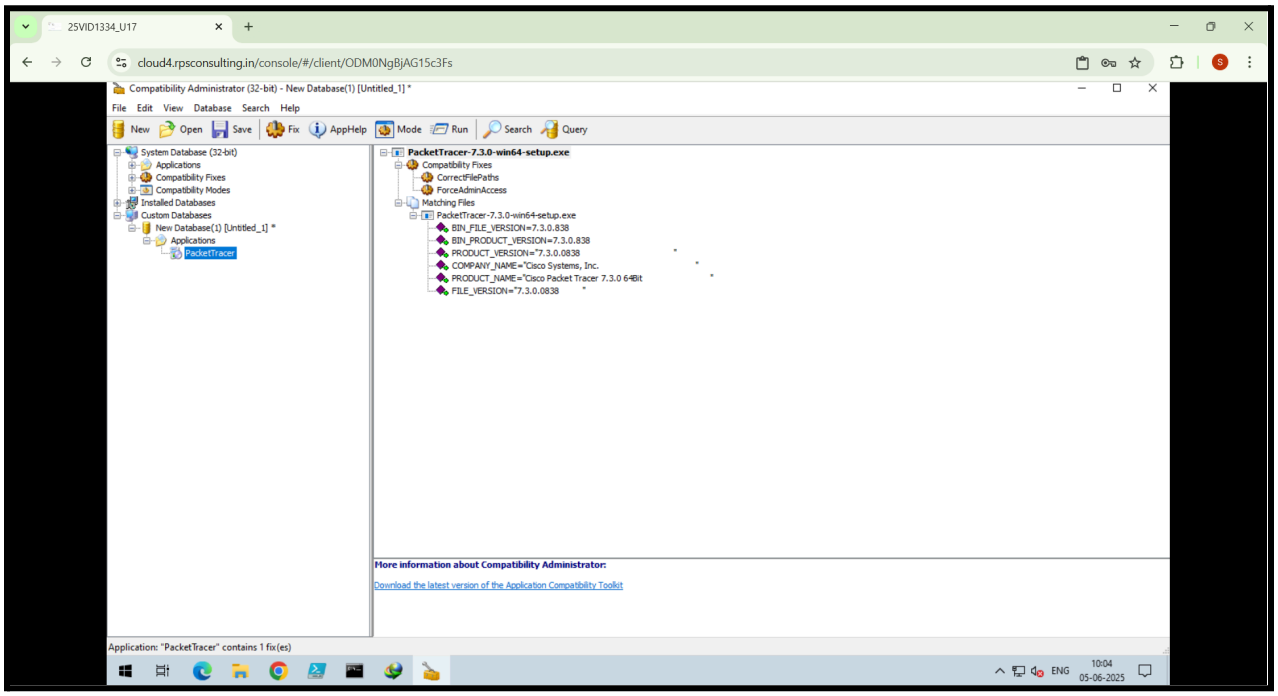


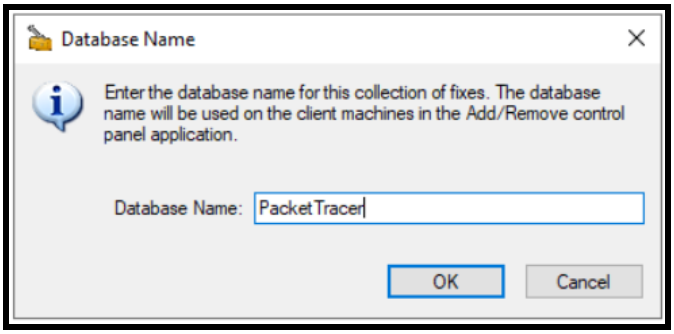


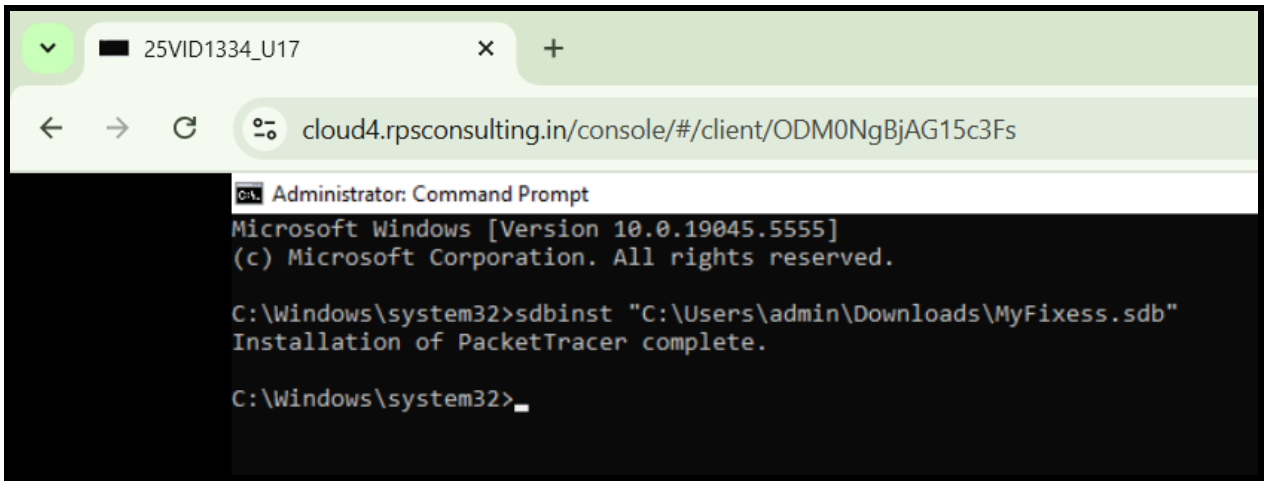

Create new Application Fix
Compatibility Modes
Select compatibility modes to be applied for the program.
Compatibility mode
Run this program in compatibility mode for:
Windows Vista (Service Pack 2)
Additional compatibility modes
16BitColor
256Color
640X480
8And16BitAggregateBlts
8And16BitDXMaxWinMode
8And16BitGDIRedraw
8And16BitTimedPriSync
ApiLogLayer
Test Run...
< Back
Next >
Cancel


Create new Application Fix
Compatibility Fixes
Select compatibility fixes to be applied for this program.
Compatibility Fixes:
Parameters
Show Selected
Clear all
Name
Command-line
Module
Force640x480x16
Force640x480x8
Force8BitColor
ForceAdminAccess
ForceAnsiGetDisplayNameOf
ForceAnsiWindowProc
ForceAppendMenuSuccess
ForceApplicationFocus
Selected 2 of 438
Test Run...
< Back
Next >
Cancel


Create new Application Fix
Matching Information
Select matching files to be used for program identification. For each file you can select matching attributes.
Add File
Remove File
Remove All
Auto-Generate
Select All
Unselect All
Main Executable (PacketTracer-7.3.0-win64-setup.exe)
SIZE="154019600"
CHECKSUM="0xFDC2B2FD"
BIN_FILE_VERSION="7.3.0.838"
BIN_PRODUCT_VERSION="7.3.0.838"
PRODUCT_VERSION="7.3.0.0838
FILE_DESCRIPTION="Cisco Packet Tracer 7.3.
COMPANY_NAME="Cisco Systems, Inc.
PRODUCT_NAME="Cisco Packet Tracer 7.3.0
FILE_VERSION="7.3.0.0838
LEGAL_COPYRIGHT="
VERDATEHI="0x0"
VERDATELO="0x0"
VERFILEOS="0x4"
VERFILETYPE="0x1"
< Back
Finish
Cancel


25VID1334_U17
cloud4.rpsconsulting.in/console/#/client/ODM0NgBjAG15c3Fs
Compatibility Administrator (32-bit) - New Database(1) [Untitled_1] *
File Edit View Database Search Help
New Open Save Fix AppHelp Mode Run Search Query
System Database (32-bit)
Applications
Compatibility Fixes
Compatibility Modes
Installed Databases
Custom Databases
New Database(1) [Untitled_1] *
Applications
PacketTracer
PacketTracer-7.3.0-win64-setup.exe
Compatibility Fixes
CorrectFilePaths
ForceAdminAccess
Matching Files
PacketTracer-7.3.0-win64-setup.exe
BIN_FILE_VERSION=7.3.0.838
BIN_PRODUCT_VERSION=7.3.0.838
PRODUCT_VERSION="7.3.0.0838
COMPANY_NAME="Cisco Systems, Inc.
PRODUCT_NAME="Cisco Packet Tracer 7.3.0 64Bit
FILE_VERSION="7.3.0.0838
More information about Compatibility Administrator:
Download the latest version of the Application Compatibility Toolkit
Application: "PacketTracer" contains 1 fix(es)
ENG
10:04
05-06-2025


Database Name
Enter the database name for this collection of fixes. The database name will be used on the client machines in the Add/Remove control panel application.
Database Name:
PacketTracer
OK
Cancel


25VID1334_U17
cloud4.rpsconsulting.in/console/#/client/ODM0NgBjAG15c3Fs
Administrator: Command Prompt
Microsoft Windows [Version 10.0.19045.5555]
(c) Microsoft Corporation. All rights reserved.
C:\Windows\system32>sdbinst "C:\Users\admin\Downloads\MyFixess.sdb"
Installation of PacketTracer complete.
C:\Windows\system32>