

# Monitor what killed diawp.exe in Windows

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## TSG Contact

davizen


## About Gflags

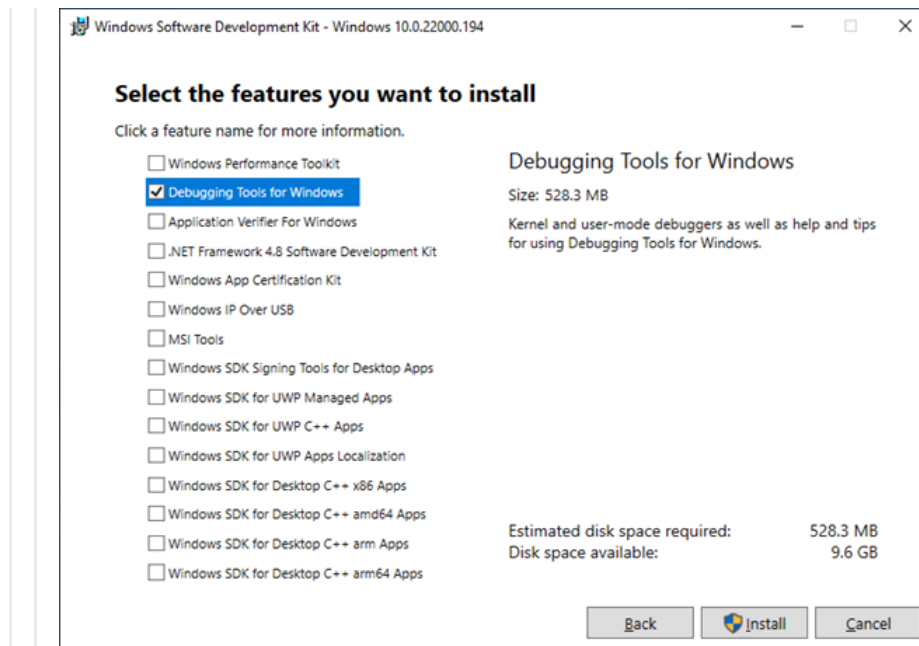
<https://docs.microsoft.com/en-us/windows-hardware/drivers/debugger/gflags> 

## Known limitation

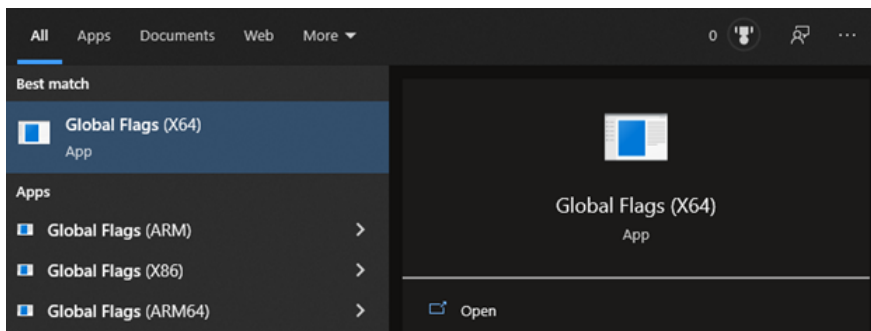
The monitoring feature does not detect normal process termination that happens when the last thread of the process exits. The monitoring feature does not detect process termination that is initiated by kernel-mode code.

## Configure Windows process exit monitoring

1. Download the Windows SDK from <https://developer.microsoft.com/en-us/windows/downloads/windows-sdk/> 
2. Install below features:

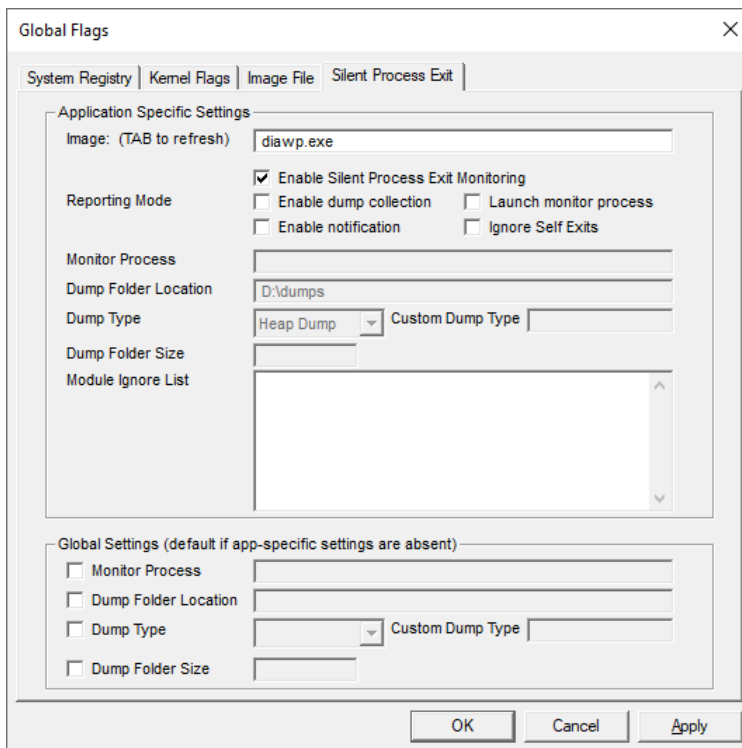


3. Launch gflags.exe from the installation directory or start menu. It requires admin privileges to open so be sure to be administrator on the computer where you are launching this.

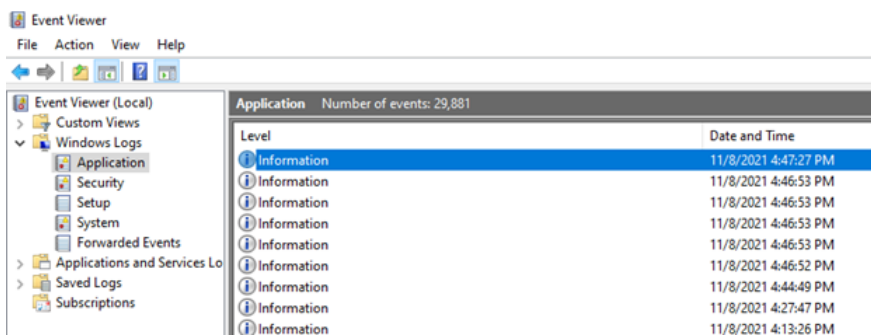


4. Follow the below instructions to configure Windows process exit monitoring.

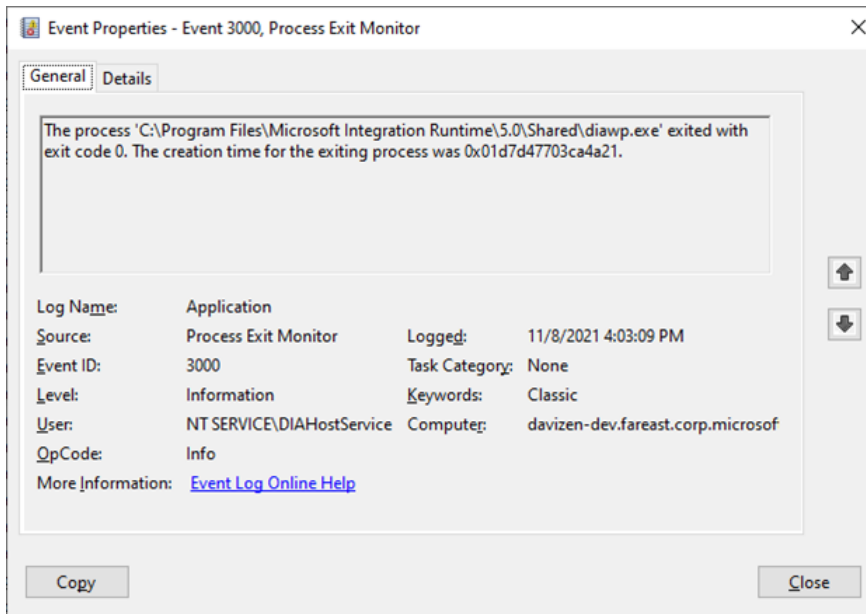
- Launch gflags.exe from Windows Debugging tool kit installation directory
- Switch to "Silent Process Exit" tab
- Type the name of the process that you want to monitor. For example, diawp.exe
- Press tab and check the box "Enable silent process exit monitoring"
- Click OK to complete



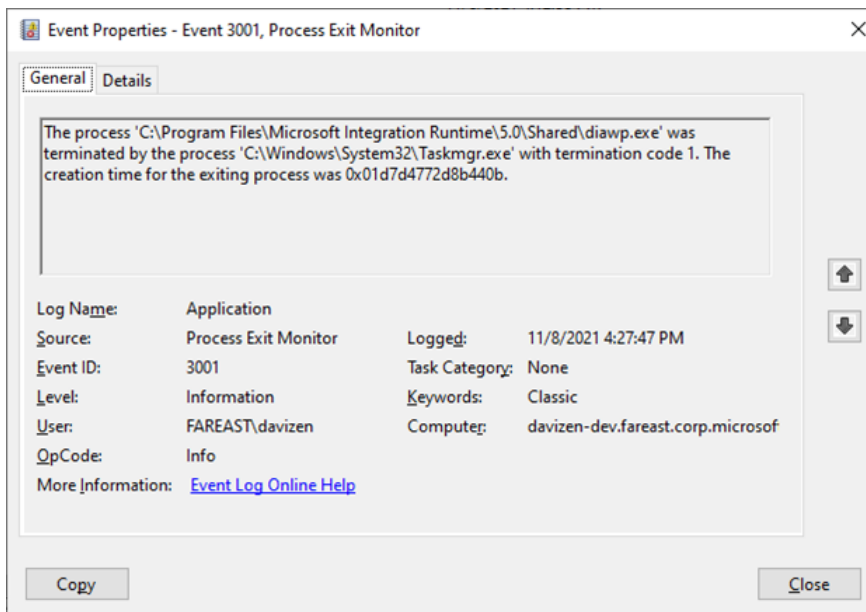
- Log is shown in Event Viewer -> Windows Logs -> Application



- Restart SHIR to close diawp.exe gracefully and we can see below event log in Application event log with event ID 3000 from source "Process Exit Monitor"



- Kill diawp.exe via task manager. Now we can see a 3001 event ID in application log from the same source



## Enable dump collection

1. Check the box "Enable dump collection"
2. Provide the folder at "Dump Folder Location"
3. Select the Dump Type: Heap Dump
4. Click OK to complete

The screenshot shows the 'Global Flags' dialog box with the 'Silent Process Exit' tab selected. The 'Application Specific Settings' section is active for the image 'diawp.exe'. The 'Reporting Mode' section has 'Enable Silent Process Exit Monitoring' checked, 'Enable dump collection' checked, 'Launch monitor process' unchecked, 'Enable notification' unchecked, and 'Ignore Self Exits' unchecked. The 'Monitor Process' field is empty. The 'Dump Folder Location' is 'D:\dumps'. The 'Dump Type' is 'Heap Dump'. The 'Dump Folder Size' is empty. The 'Module Ignore List' is empty. The 'Global Settings' section at the bottom has all options unchecked: 'Monitor Process', 'Dump Folder Location', 'Dump Type', and 'Dump Folder Size'. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom right.

## Remove Windows process exit monitoring

1. Type the name of the process that you want to remove monitor. For example, diawp.exe
2. Uncheck the box "Enable silent process exit monitoring"
3. Click OK to complete

This screenshot is identical to the previous one, but the 'Enable Silent Process Exit Monitoring' checkbox in the 'Reporting Mode' section is now unchecked. All other settings remain the same. The 'OK', 'Cancel', and 'Apply' buttons are at the bottom right.