

Event Viewer, Process Monitor (ProcMon), and Dependency Walker are **valuable tools for troubleshooting a variety of issues, including application failures, system errors, and dependency problems**. Event Viewer provides a log of system events, helping to identify error messages and understand system behavior. Process Monitor captures real-time file system, registry, and process activity, allowing you to track down the root cause of issues. Dependency Walker analyzes the dependencies of a program, helping to identify missing or incorrect dependencies. [1, 1, 2, 2, 3, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

Event Viewer:

- **Function:** Logs system events, including errors, warnings, and information messages.
- **Usage:** Search for relevant error messages, warnings, or event IDs to understand the nature of the problem. Microsoft Learn
- **Benefit:** Provides a historical record of system activity, helping to identify recurring problems and pinpoint the source of errors. [1, 1, 2, 2, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22]

Process Monitor (ProcMon):

- **Function:** Captures file system, registry, and process activity in real-time. Microsoft Learn [11, 11, 23, 23, 24, 25]
- **Usage:** Use filters to narrow down the captured events to specific processes or operations. Monitor file access, registry keys, and process behavior to pinpoint issues. [23, 23, 26, 26]
- **Benefit:** Offers a detailed view of system interactions, helping to diagnose application startup issues, file access problems, and more. Salesforce [4, 4, 23, 23, 26, 26]

Dependency Walker:

- **Function:** Analyzes the dependencies of Windows modules (EXE, DLL, etc.).
- **Usage:** Identifies missing or incorrect dependencies, such as DLLs.
- **Benefit:** Helps resolve problems caused by missing or corrupted dependencies, ensuring that applications function correctly. [3, 27]