

DIAGTool is a portable graphical utility that performs essential Windows diagnostics quickly and safely. It was designed to support first and second-level helpdesk teams in identifying issues such as:

- System crashes and driver problems
- Unexpected shutdowns or hardware faults
- Network misconfigurations (IP, DNS, etc.)

All logs are exported cleanly to a fixed directory:

 C:\Temp\EventCollector\Logs

✓ Technical Features and Real-World Benefits

1. Collect Logs

- Extracts Critical & Error events from the System log
- Captures Event ID 219 (driver failures)
- Captures Event ID 41 (unexpected reboots)
→ **Helps trace hardware failures, boot loops, or driver errors**

2. Run SFC (sfc /scannow)

- Checks system file integrity
- Automatically repairs corruption
- Exported to SFC_Scan.txt
→ **Useful for crash diagnostics or slow systems**

3. Run CHKDSK (chkdsk /scan)

- Scans for disk errors without requiring reboot
- Exported to CheckDisk.txt
→ **Detects bad sectors, disk-level issues quickly**

4. Run Network Test

- Captures full IP config
- Tests DNS response to 8.8.8.8:53 (Google DNS)
→ **Reliable DNS check, works even when ICMP is blocked**

5. Open Log Folder

- Opens the results directory automatically
→ **Enables technicians to attach logs to tickets or escalate**

Files Generated

- SystemErrors.csv, DriverFailures.csv, UnexpectedReboots.csv
- SFC_Scan.txt, CheckDisk.txt
- SystemInfo.txt, ComputerInfo.txt, DiskInfo.txt
- NetworkInfo.txt, InternetTest.txt

Security and Compliance

- No system changes are made
- Runs with user-approved administrator privileges (UAC)
- Fully native PowerShell – no 3rd party dependencies
- Can be executed remotely (e.g., via TeamViewer, Teams)

Value

- Reduces Mean Time to Resolution (MTTR)
- Provides standardized evidence collection
- Easy to use – requires no scripting knowledge
- Logs can be archived, reused in audits or escalations