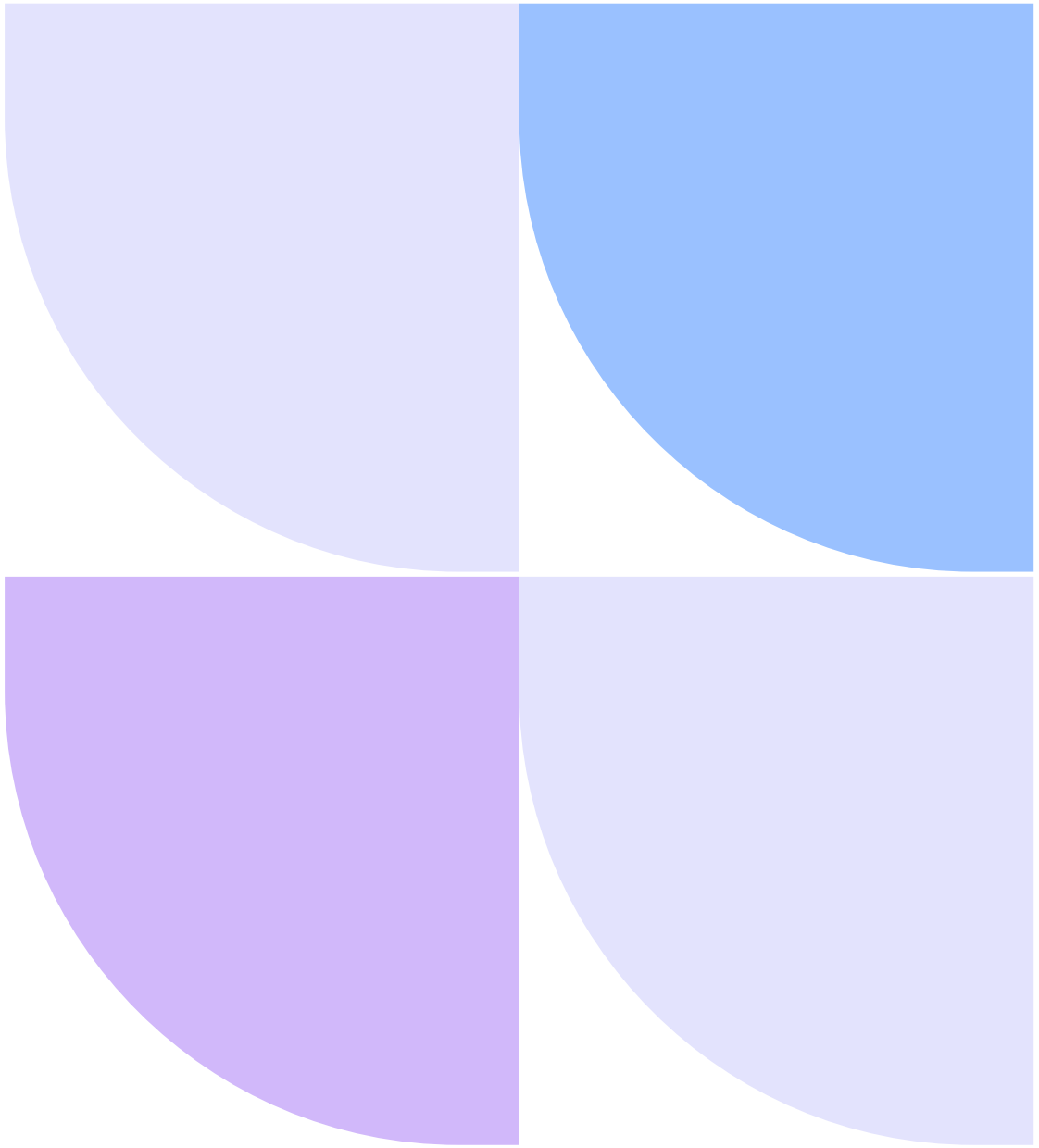
Windows Tools

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Agenda

1) Task Manager
2) Resource Monitor
3) Event Viewer



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Troubleshooting Methodology
Tools that may aid you

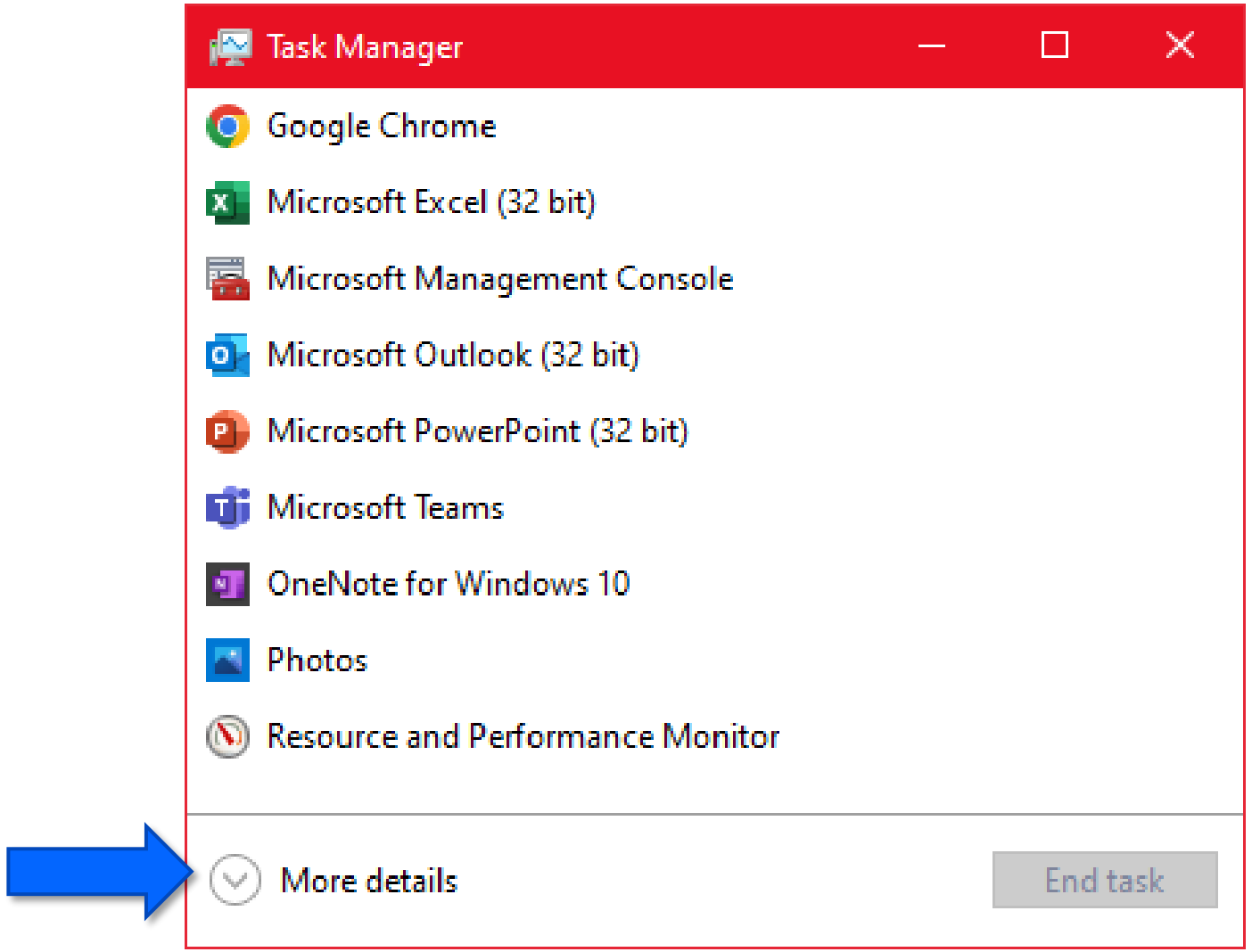
Task Manager

- View programs, processes, and services currently running on the computer.
- Monitor computer performance.
- Close non-responsive programs.
- View network status.
- View users connected to the computer.

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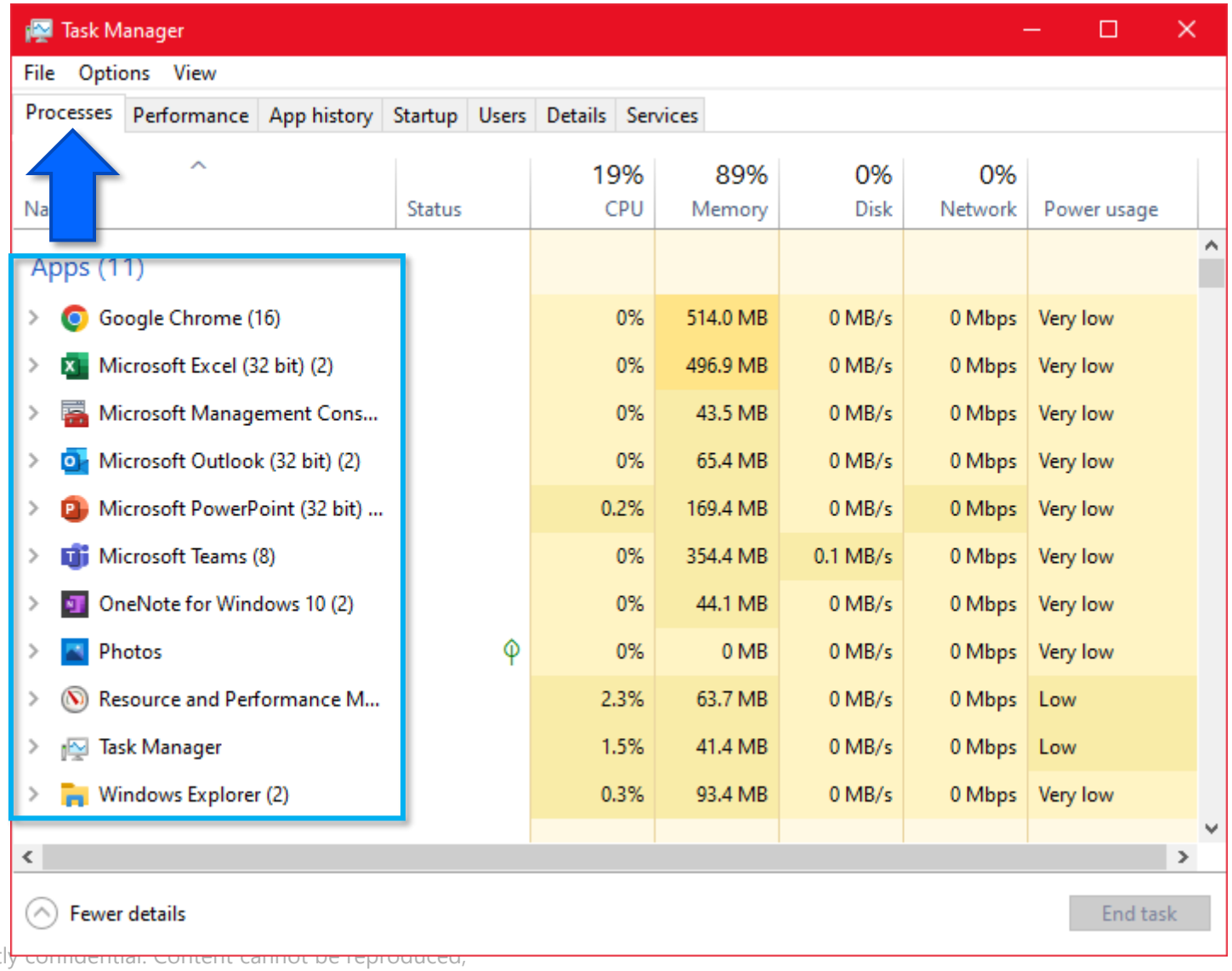
Troubleshooting Methodology
Tools that may aid you – Task Manager



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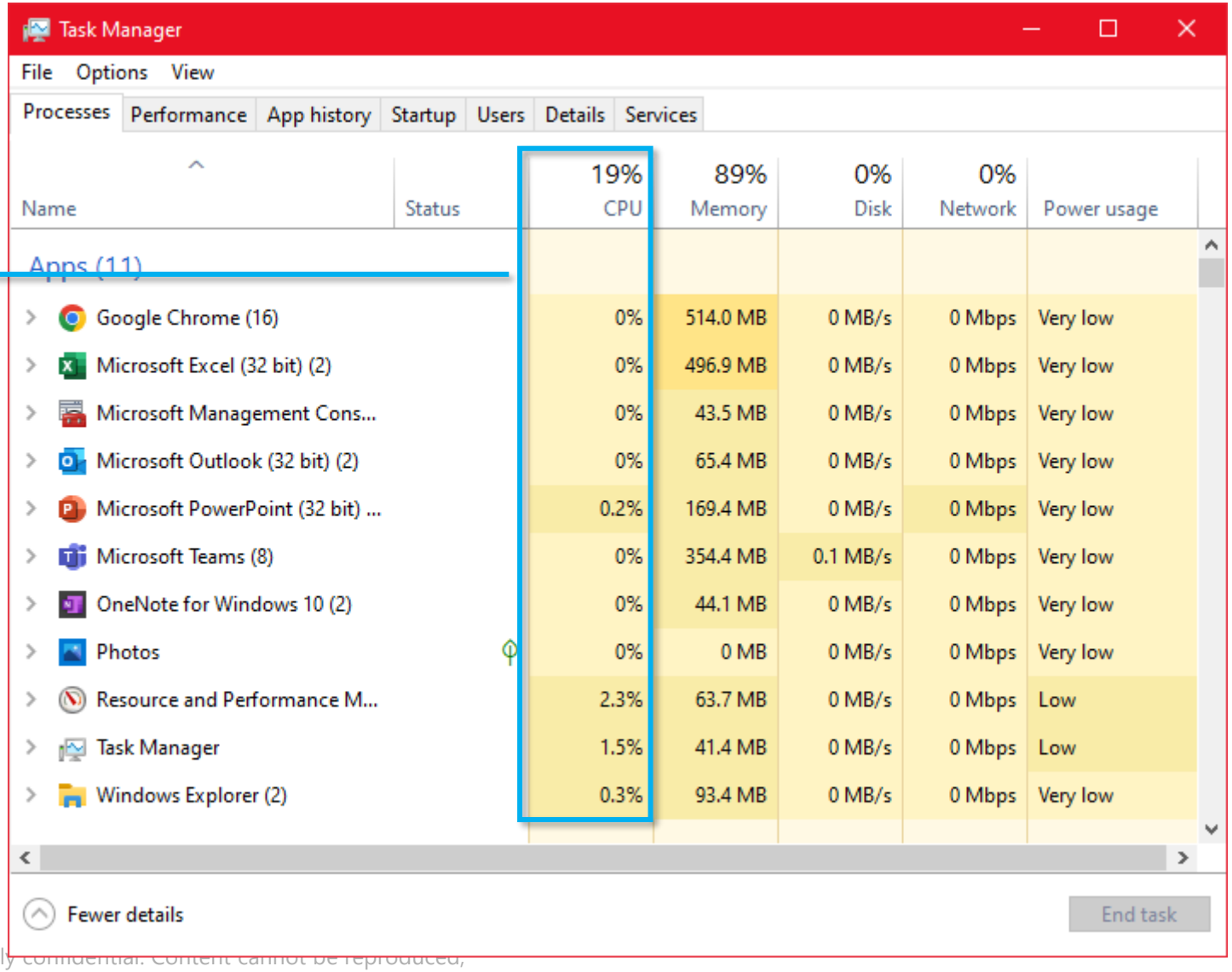
Troubleshooting Methodology
Tools that may aid you – Task Manager



1. Current running applications and their names.

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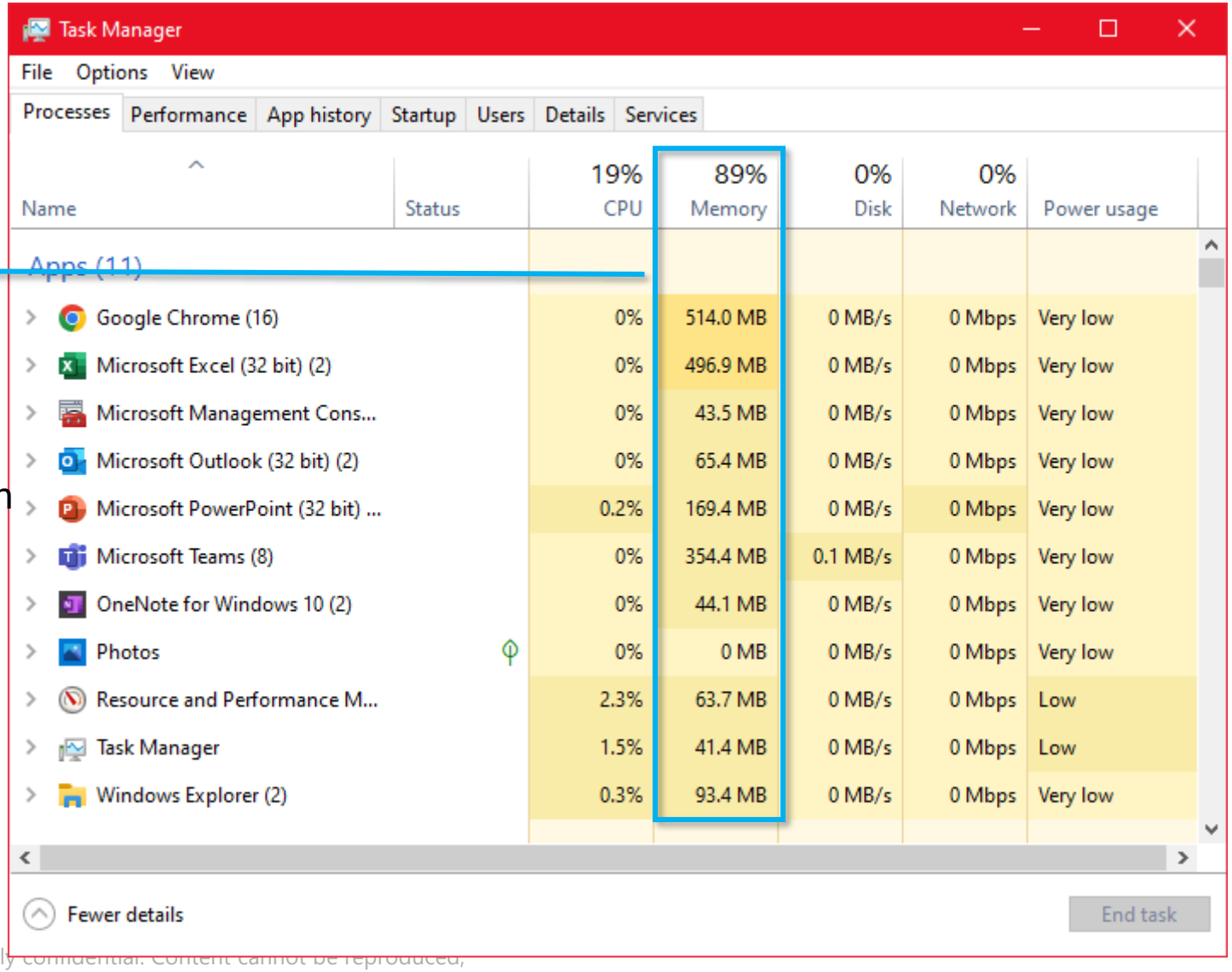
Troubleshooting Methodology
Tools that may aid you – Task Manager



2. CPU utilization percentage for each application

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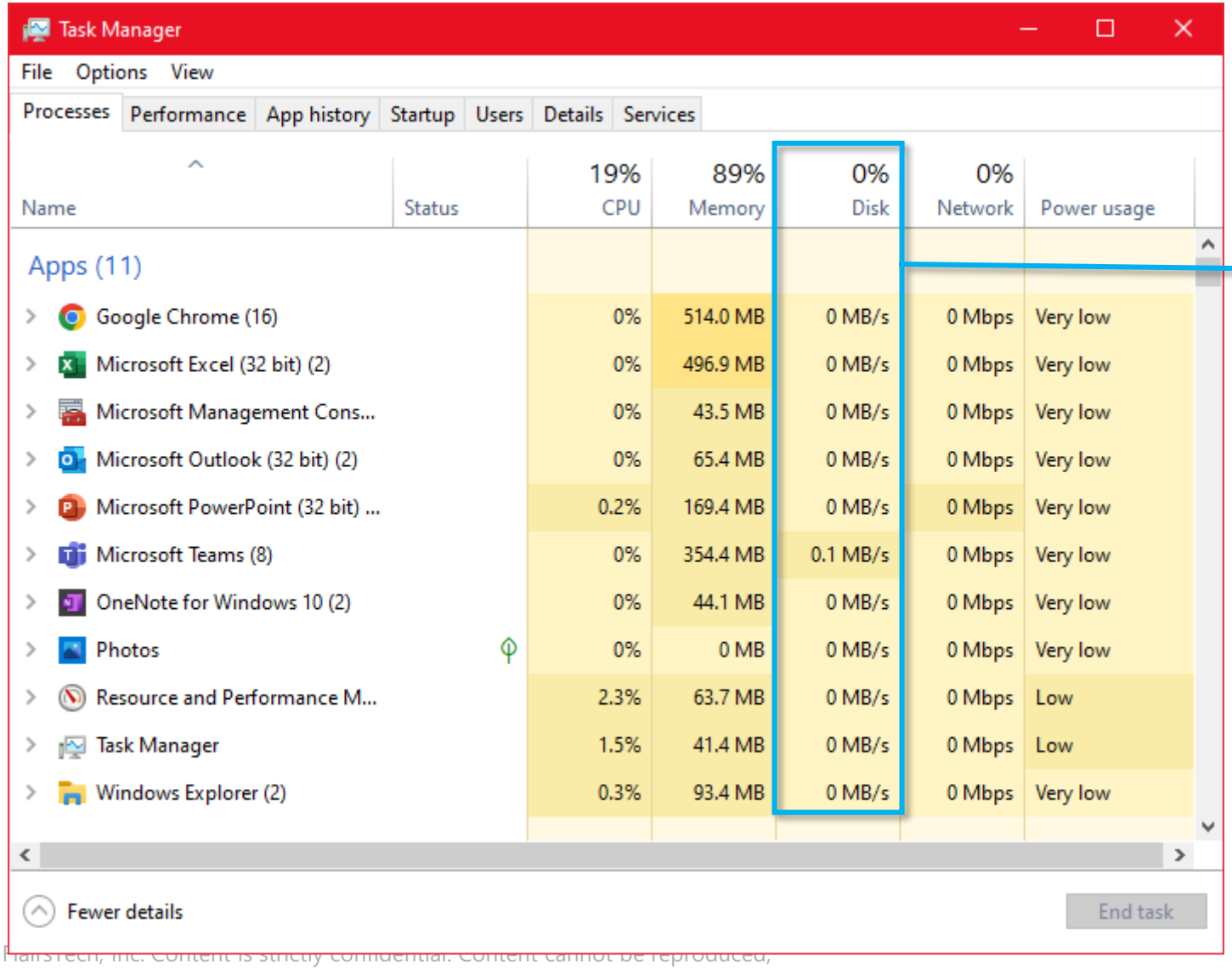
Troubleshooting Methodology
Tools that may aid you – Task Manager



3. Memory utilization percentage and MegaBytes used by each application

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Troubleshooting Methodology
Tools that may aid you – Task Manager

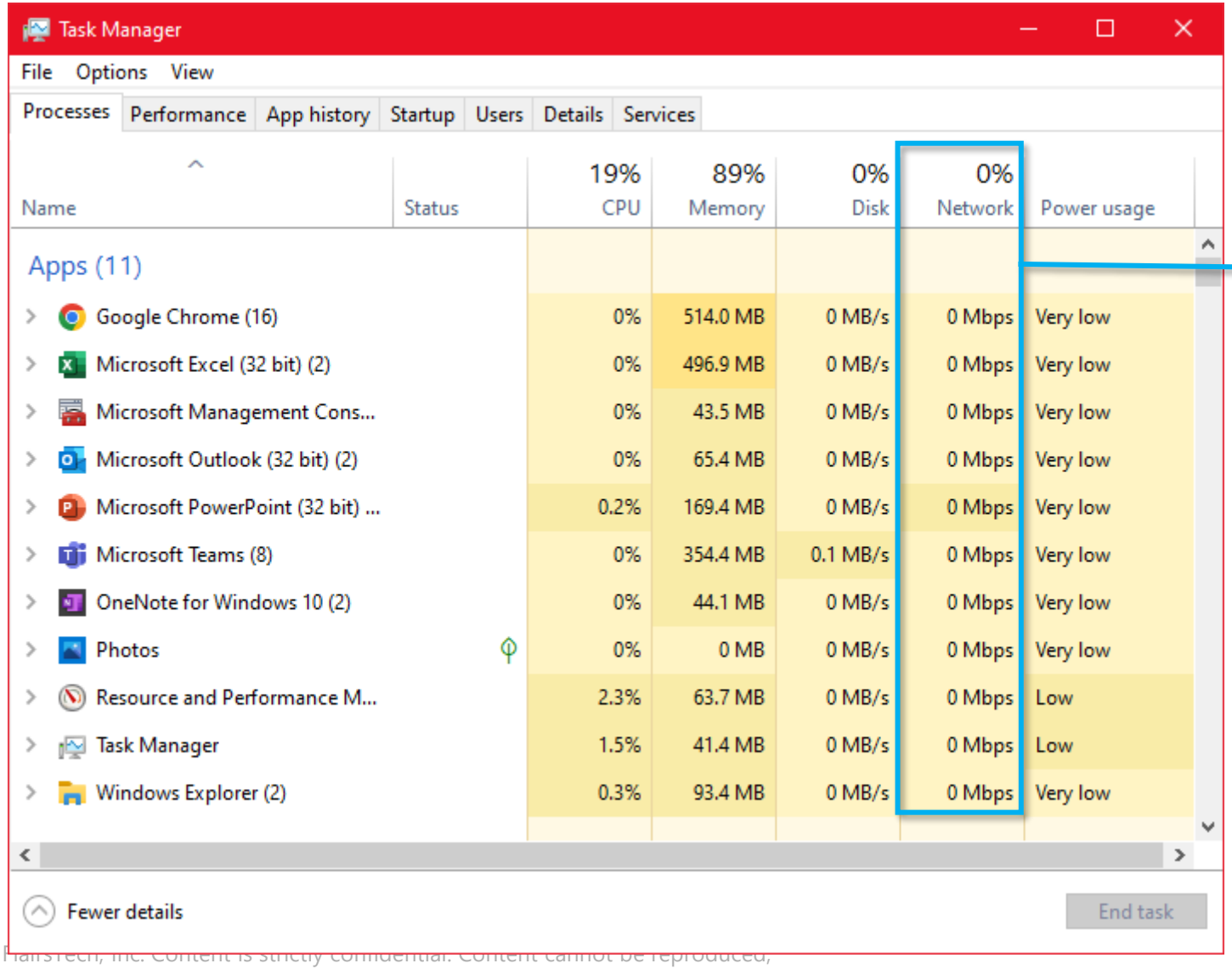


4. Disk usage percentage and MegaBytes/second disk transfer speed of each application

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Troubleshooting Methodology
Tools that may aid you – Task Manager

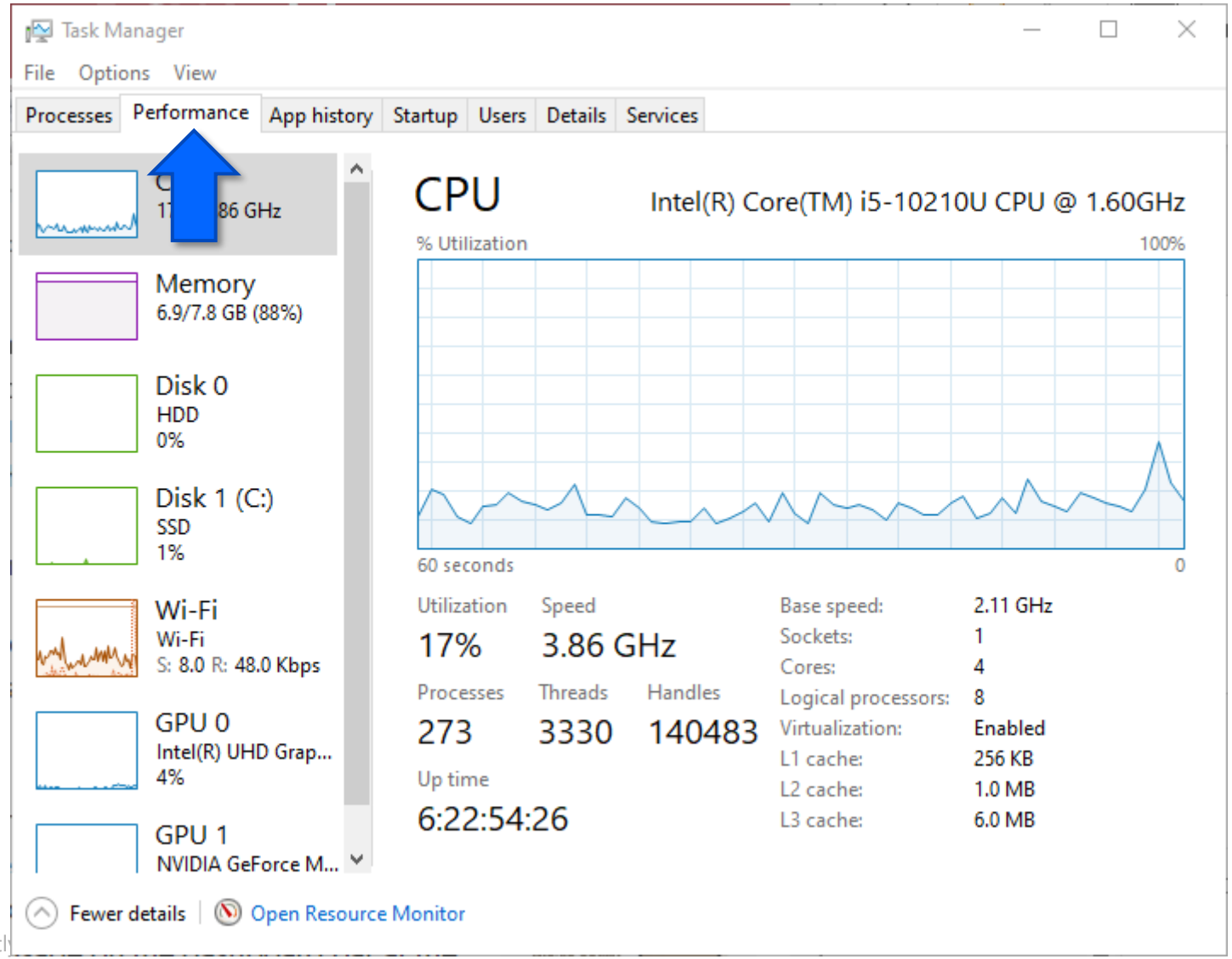


5. Network usage percentage and Megabit/second internet transfer rate of each application

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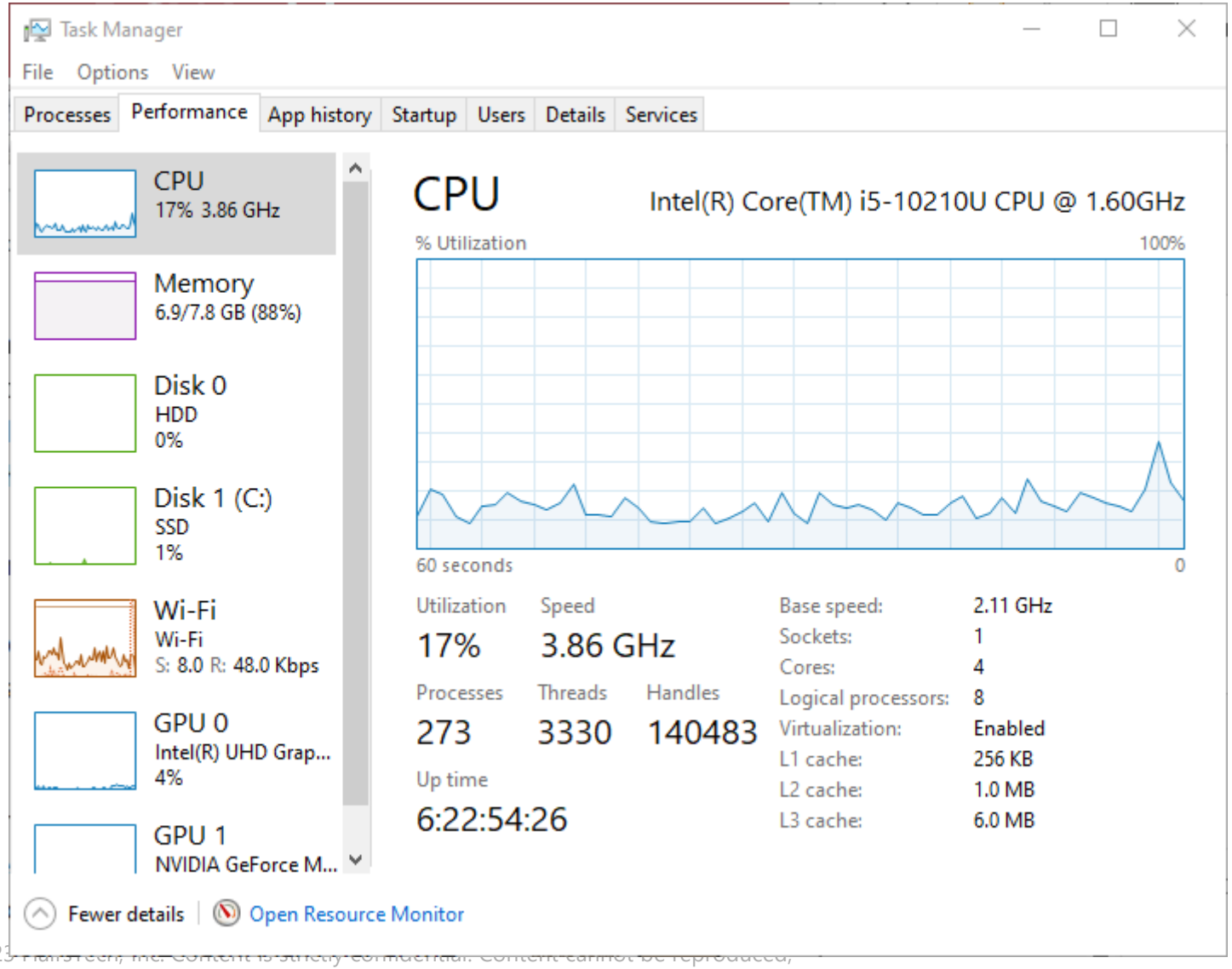
Troubleshooting Methodology
Tools that may aid you – Task Manager



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Troubleshooting Methodology
Tools that may aid you – Task Manager



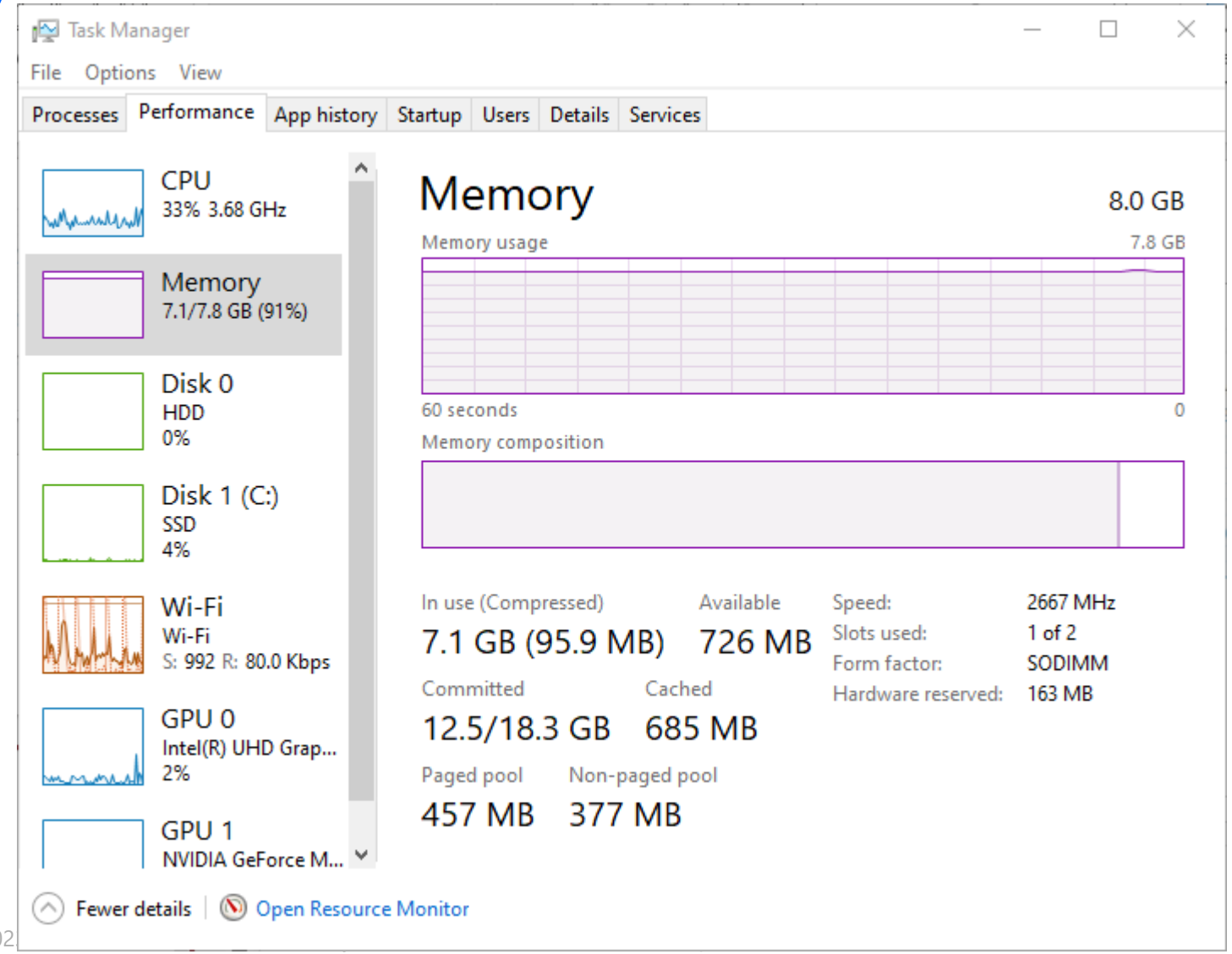
1. **CPU Performance**

- CPU type and model
- CPU utilization graph
- CPU current speed
- Processes currently running on CPU
- Up time of CPU in Days:Hours:Minutes:Seconds

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Troubleshooting Methodology
Tools that may aid you – Task Manager



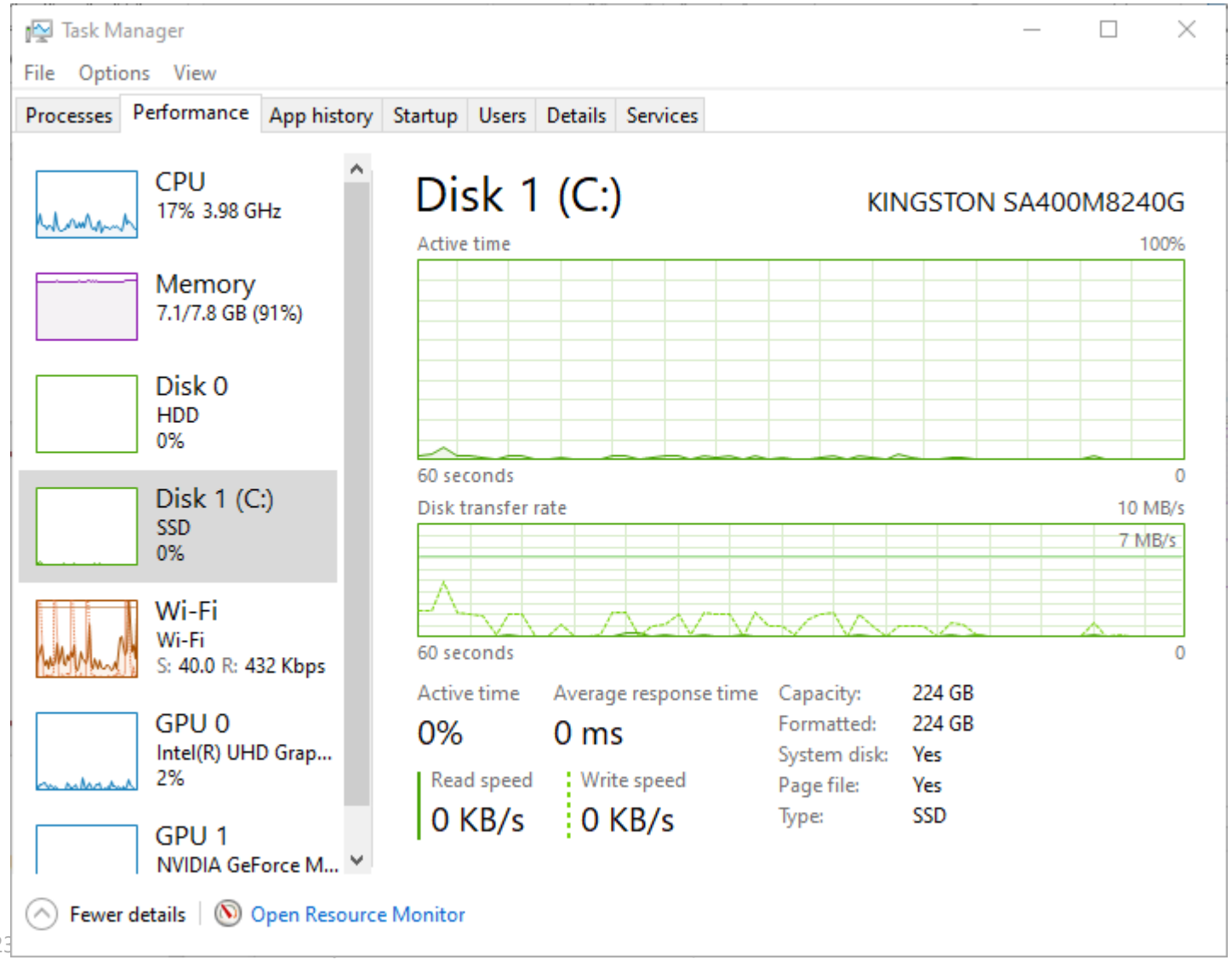
2. Memory Performance

- Memory capacity
- Memory usage graph
- Memory composition
  - (In use / Available)
- Memory speed

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Troubleshooting Methodology
Tools that may aid you – Task Manager



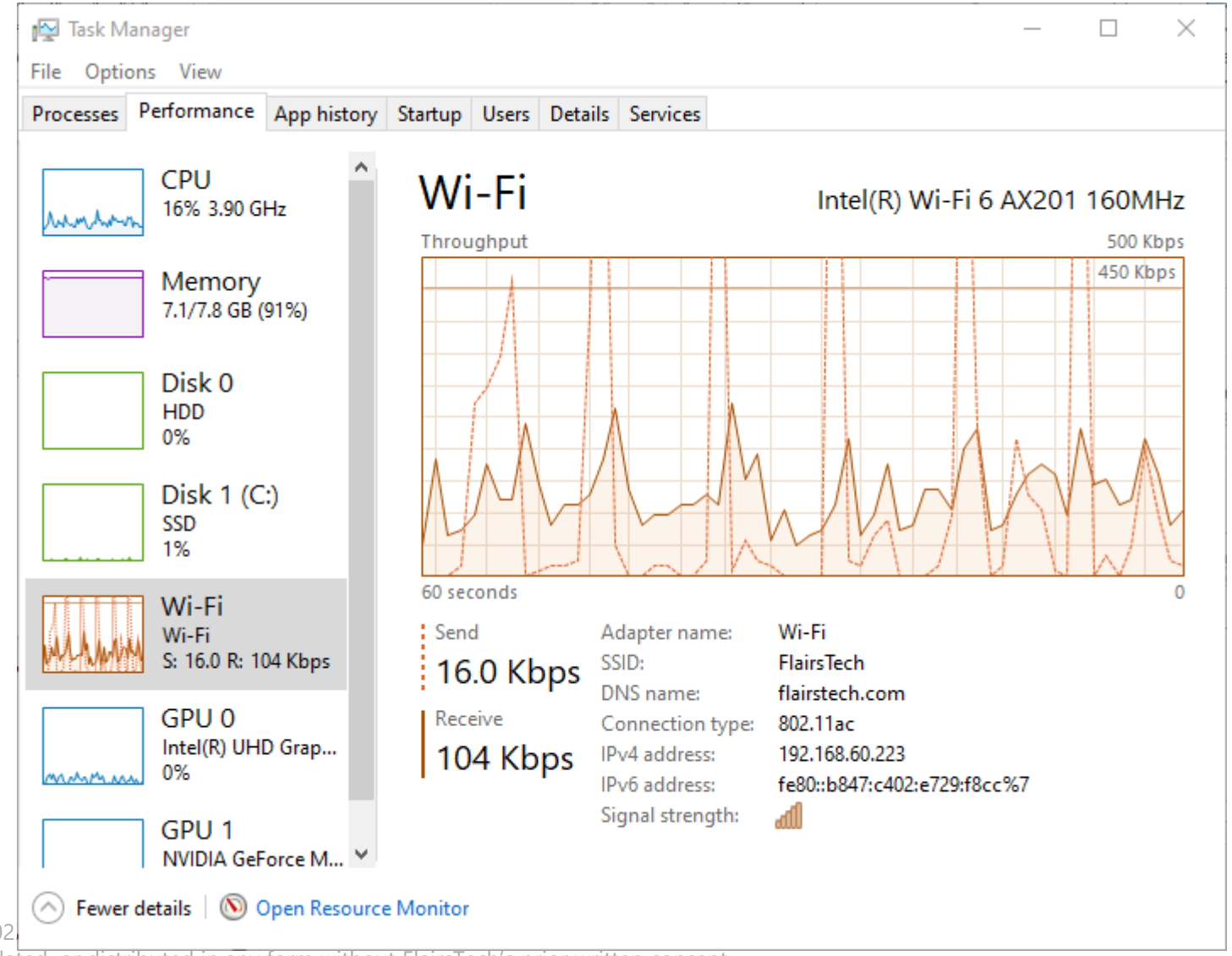
3. Disk Performance

- Disk directory
- Disk name
- Disk current usage graph
- Disk transfer rate
- Disk capacity
- Disk current read/write speed

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Troubleshooting Methodology
Tools that may aid you – Task Manager



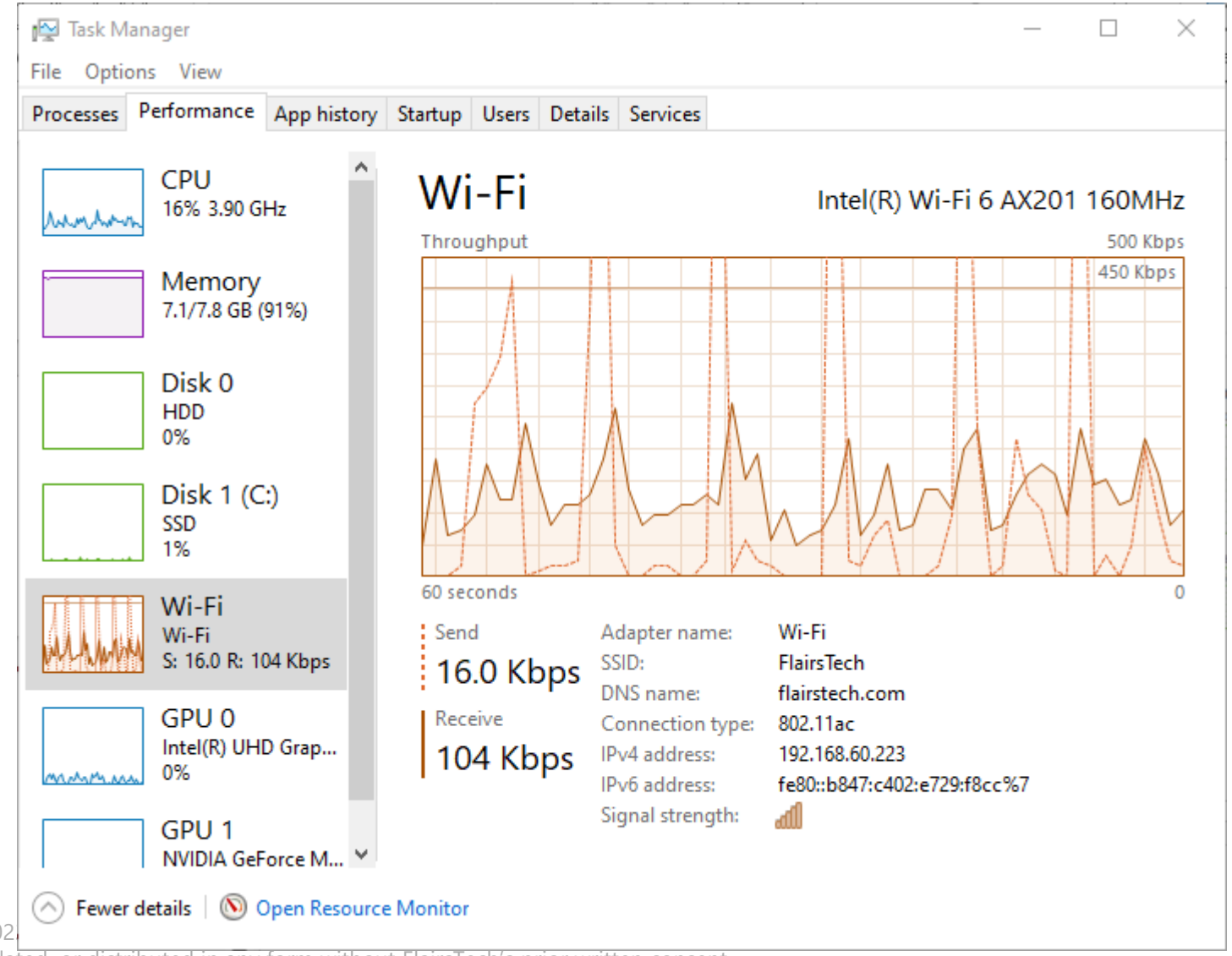
4. Network Adapter Performance

- Adapter type
- Adapter/chipset name
- Current throughput
  - Send/Receive
- Current send rate
- Current receive rate
- IP address
- DNS name

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Troubleshooting Methodology
Tools that may aid you – Task Manager



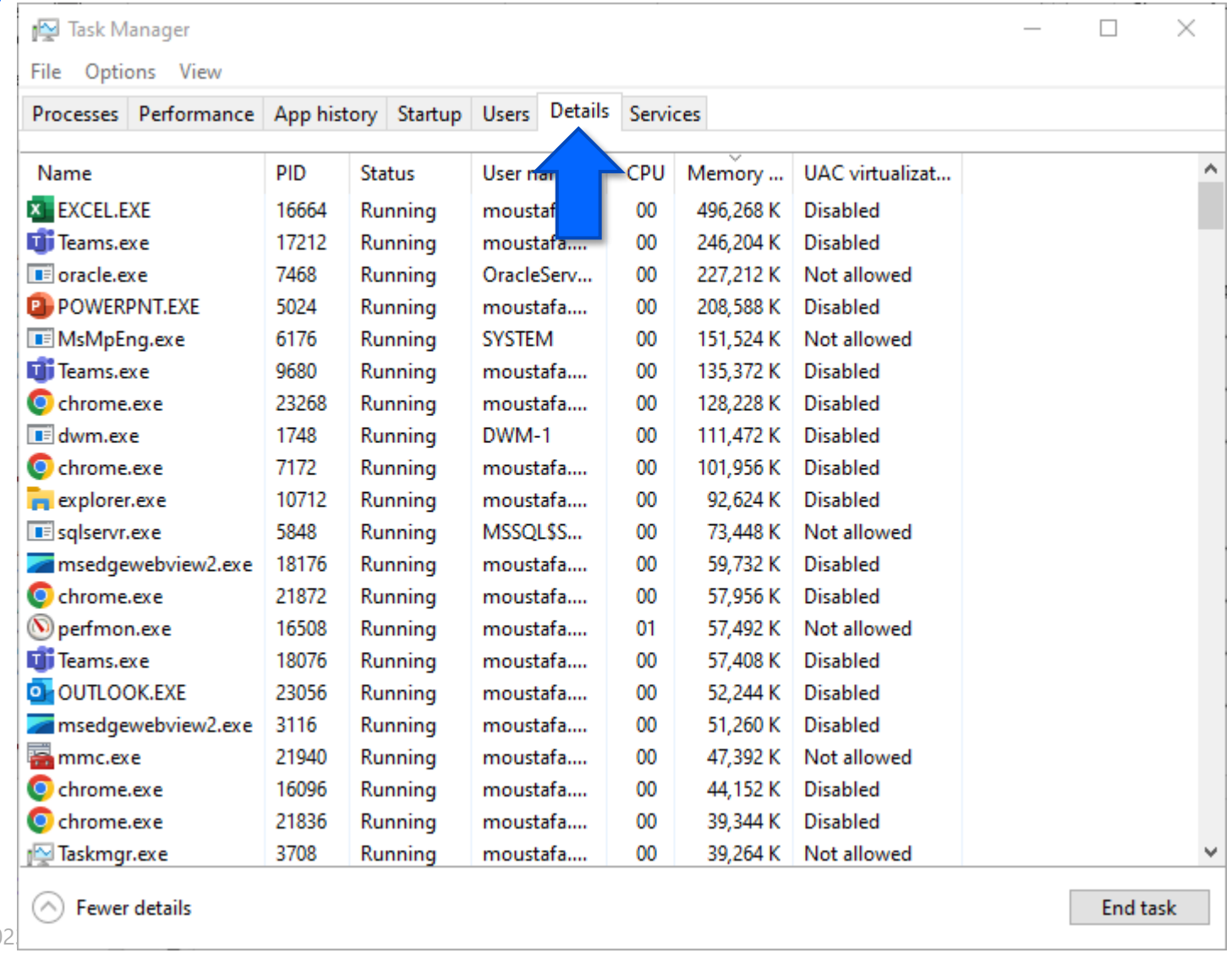
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Troubleshooting Methodology
Tools that may aid you – Task Manager



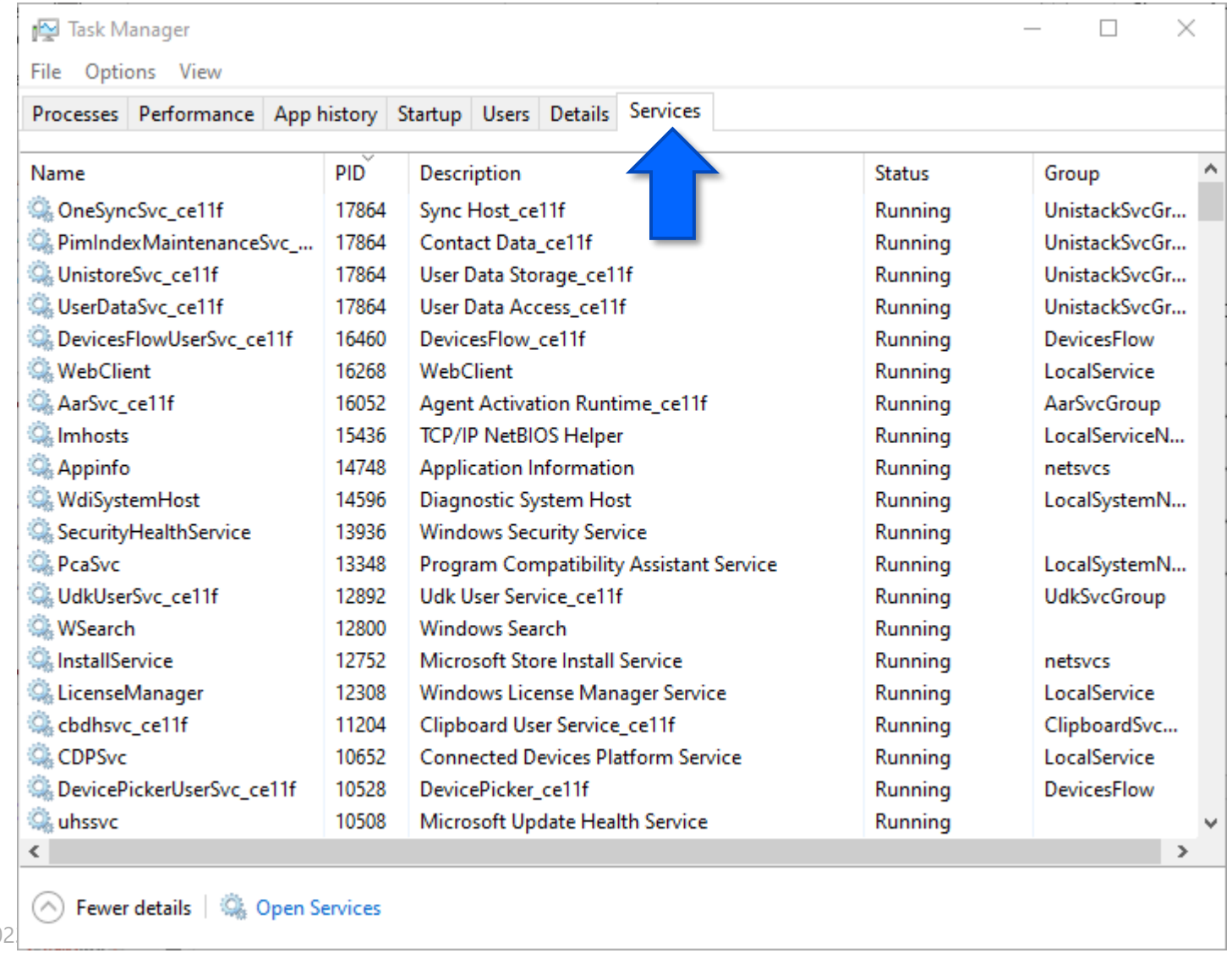
Details Tab

- Process name
- Process ID
- Process Status
- CPU utilization
- Memory used in KiloBytes

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Troubleshooting Methodology
Tools that may aid you – Task Manager



Services Tab

- Currently running services
- Service name
- Service process ID
- Service status
- Service group

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Troubleshooting Methodology
Tools that may aid you

Resource Monitor

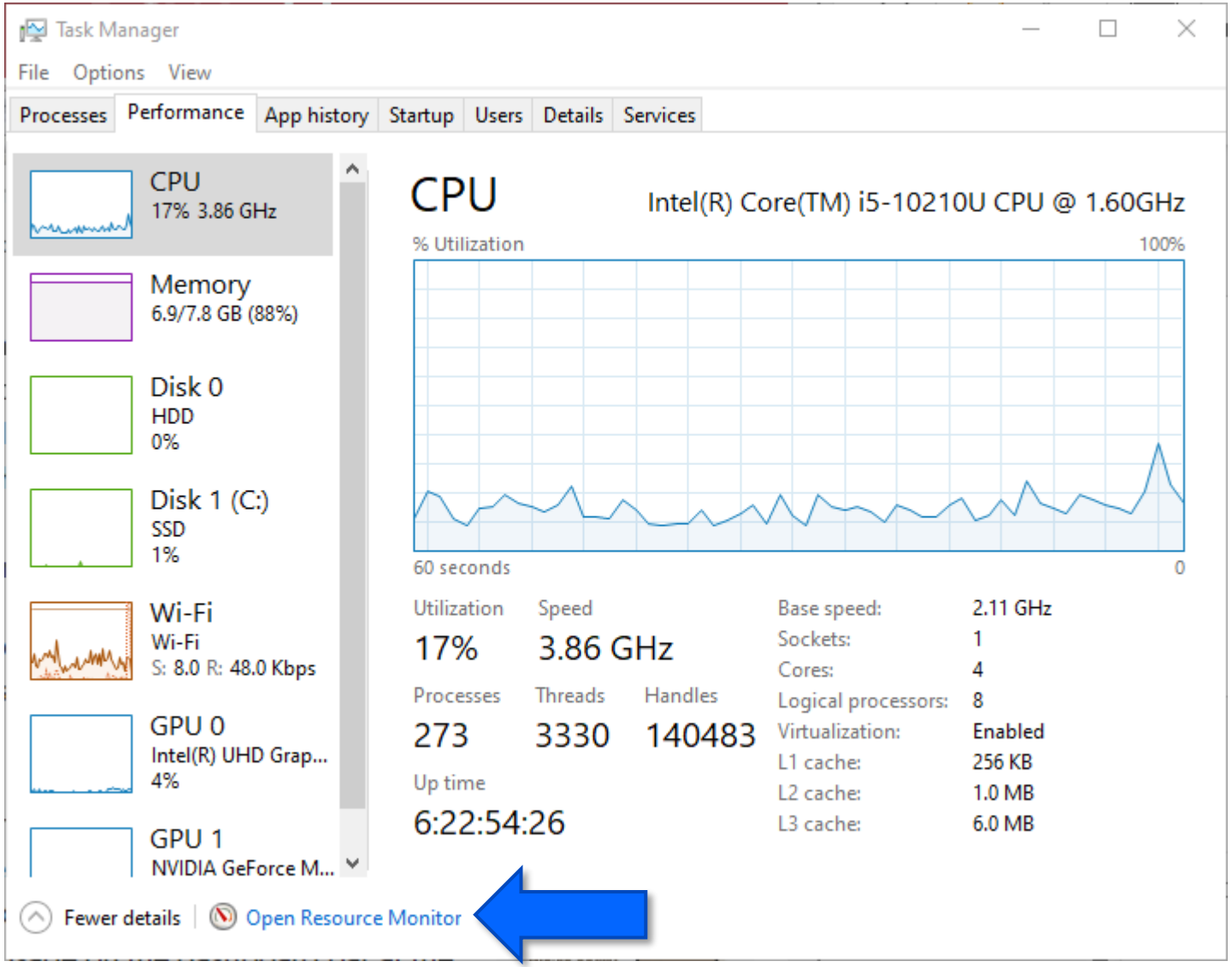
- Display information about hardware and software resources
- Real-time tracking for each process
  - CPU loads
  - Memory usage
  - Network traffic
  - Disk input/output
- Display detailed information for each process

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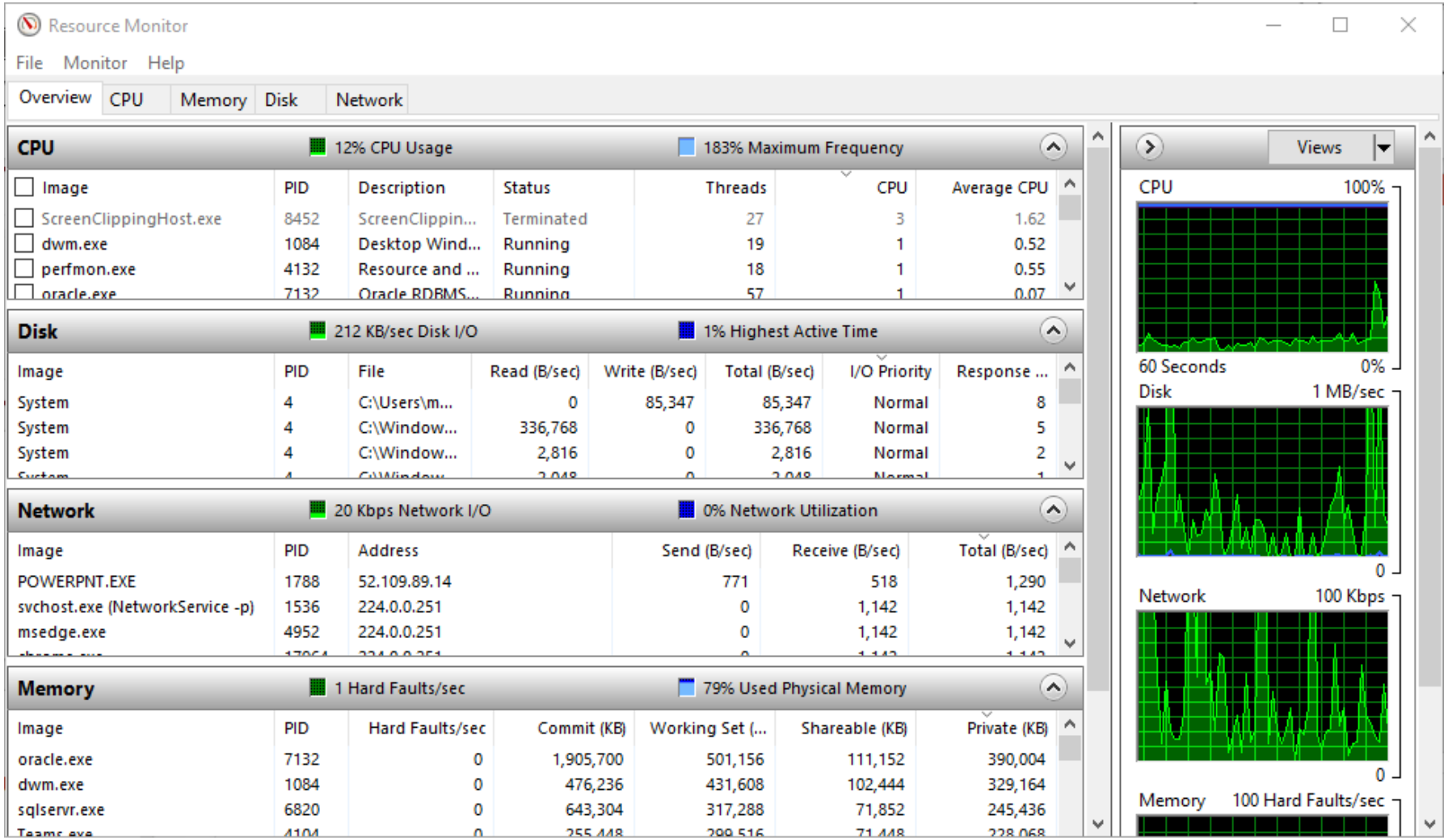
Troubleshooting Methodology
Tools that may aid you – Resource Monitor



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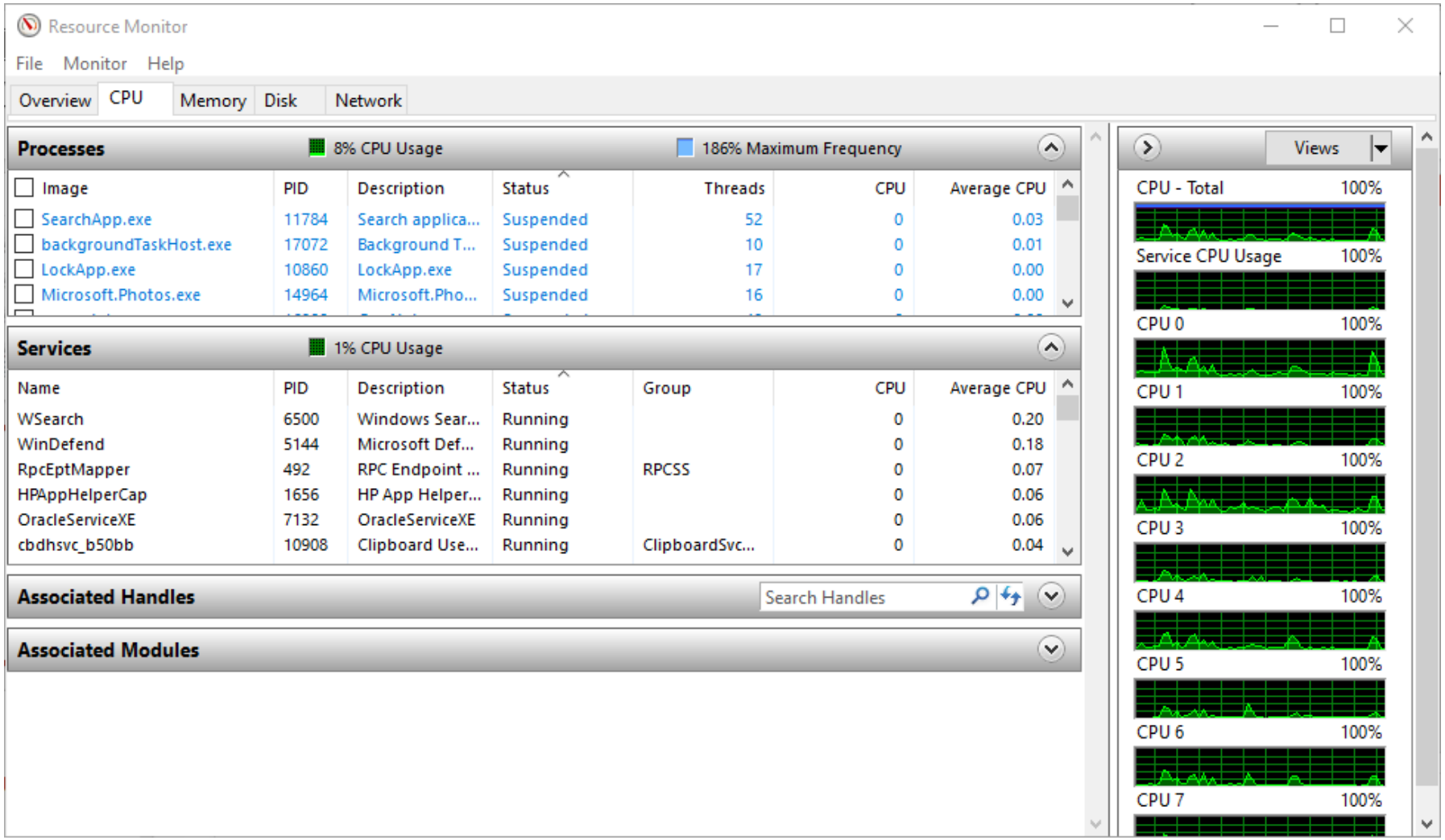
Troubleshooting Methodology
Tools that may aid you – Resource Monitor



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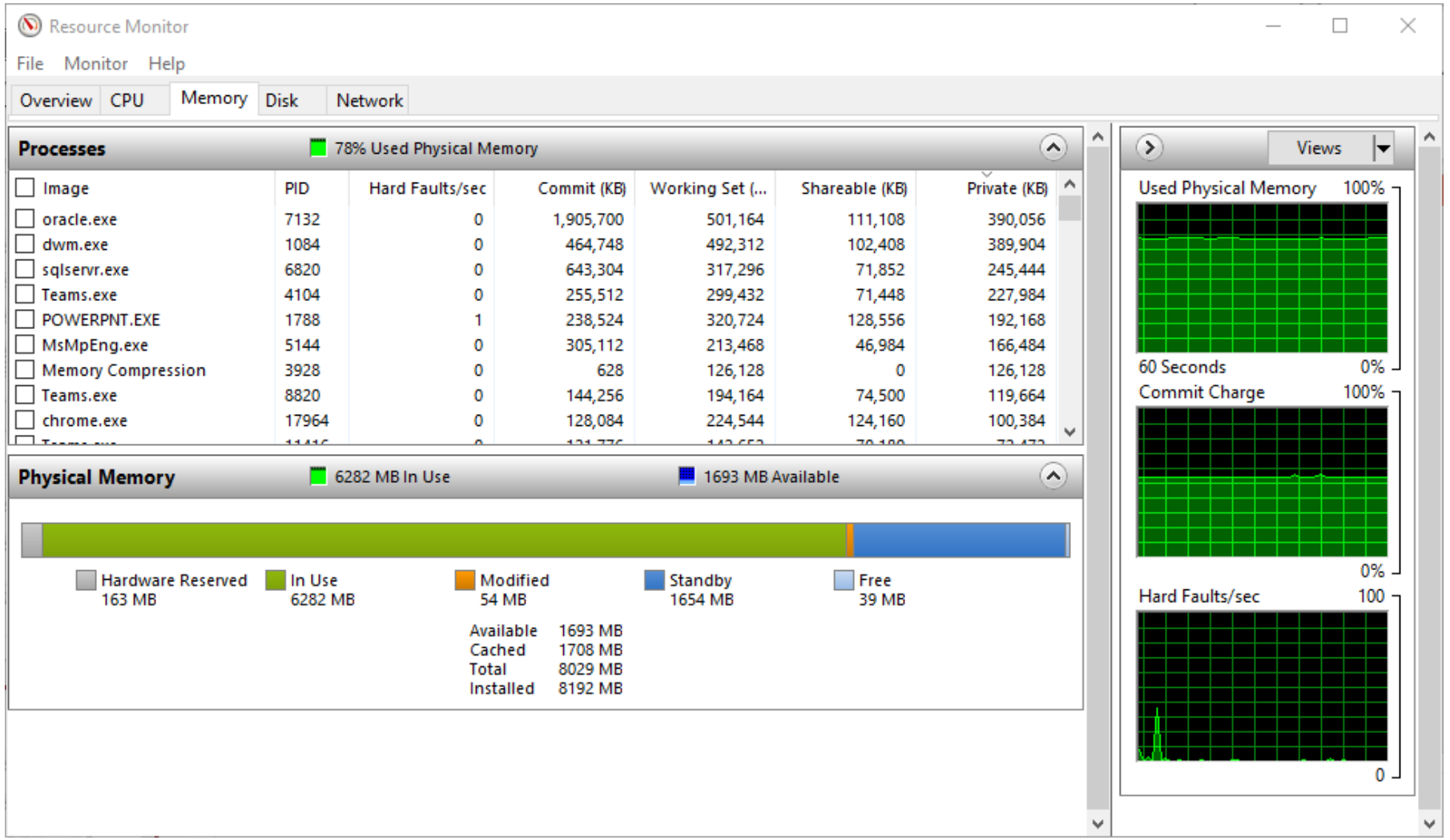
Troubleshooting Methodology
Tools that may aid you – Resource Monitor



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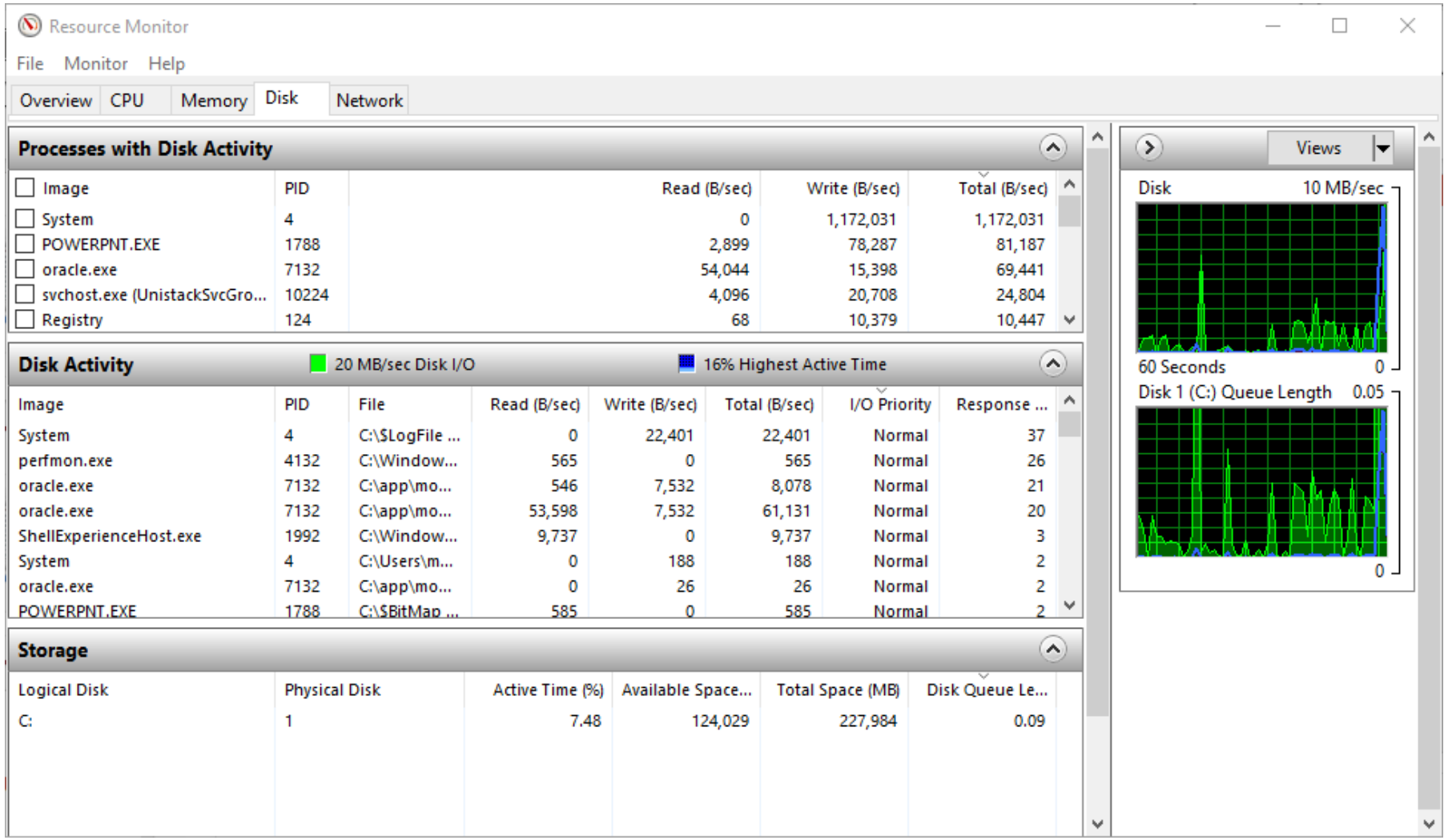
Troubleshooting Methodology
Tools that may aid you – Resource Monitor



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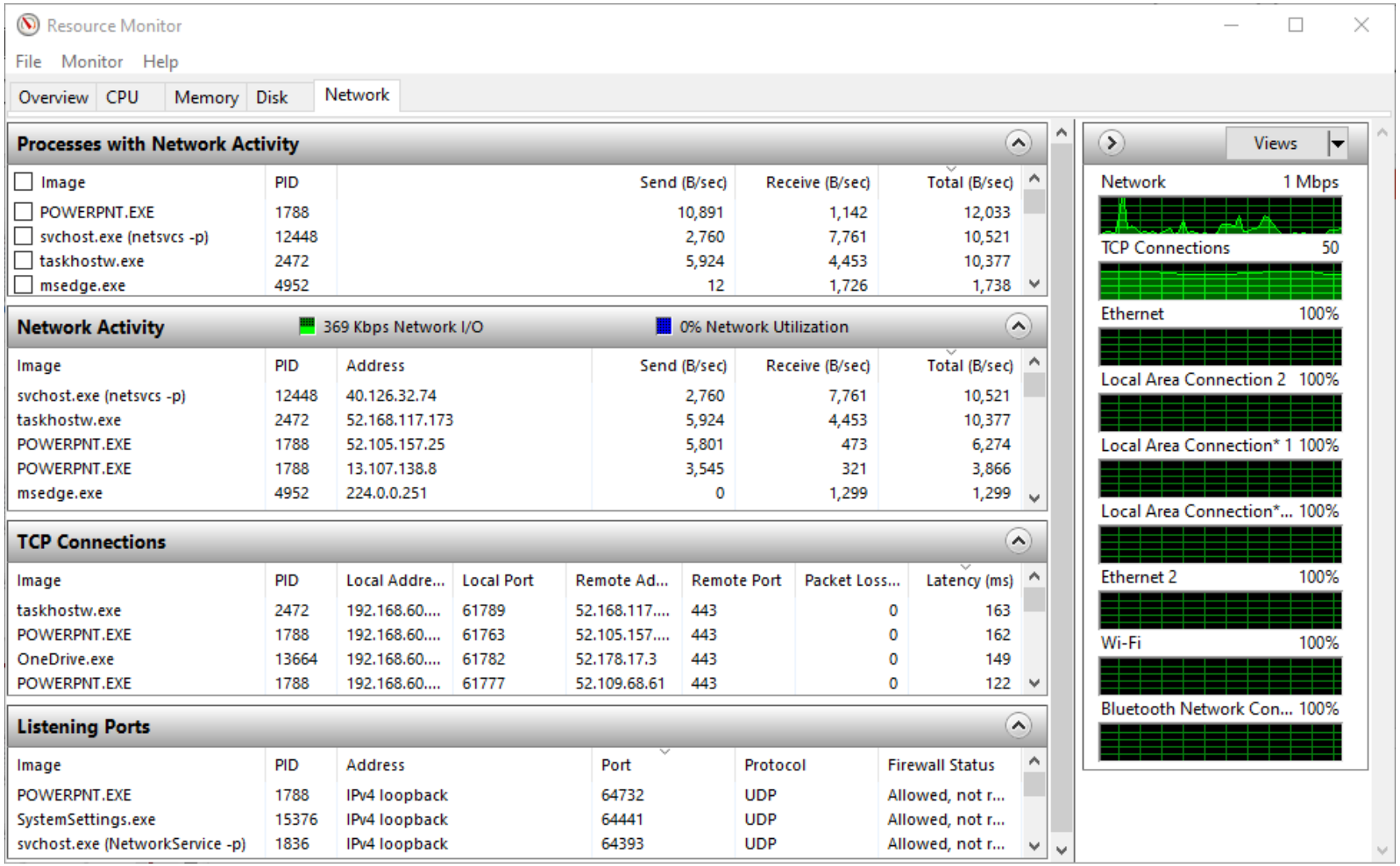
Troubleshooting Methodology
Tools that may aid you – Resource Monitor



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Tools that may aid you

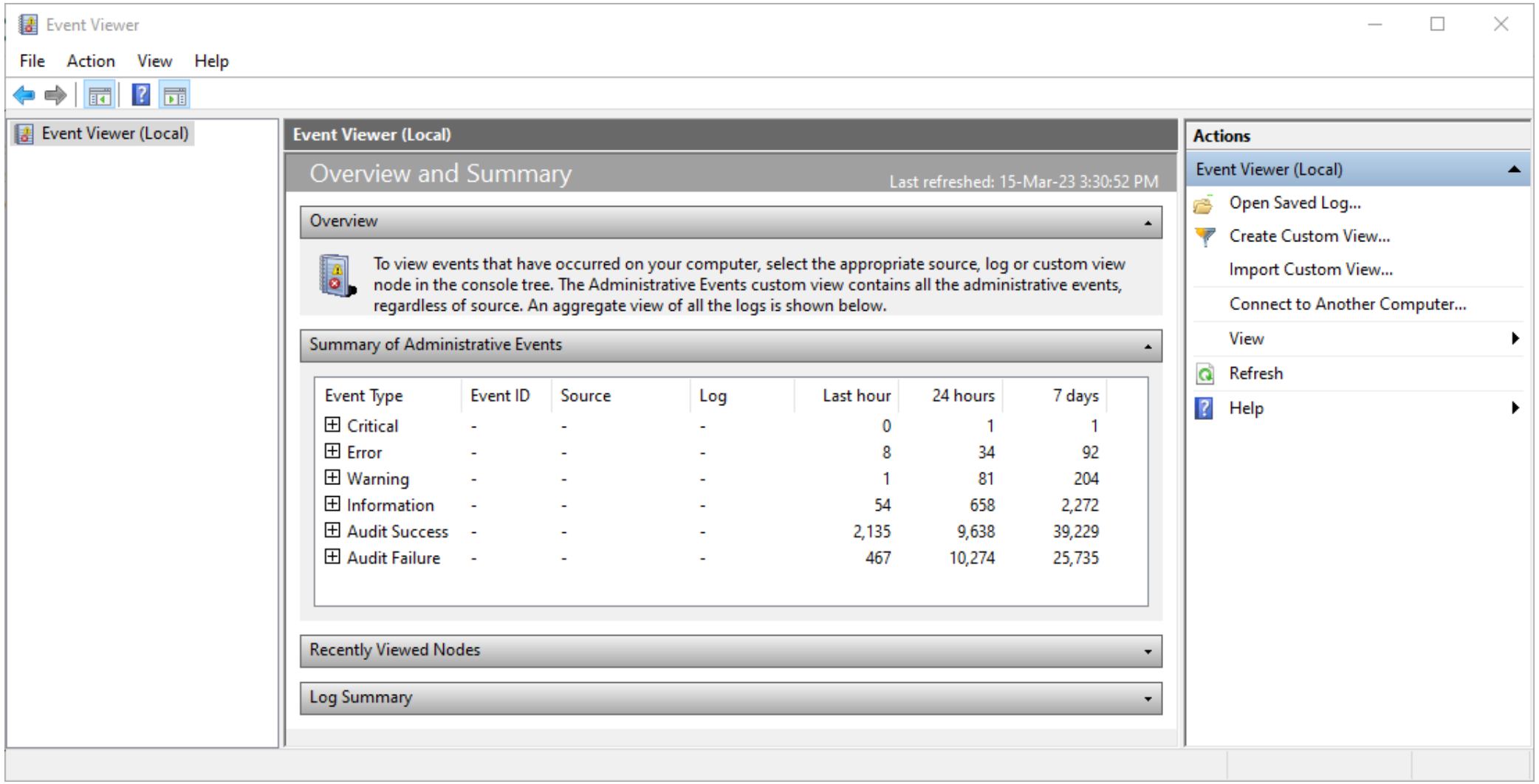
Event Viewer

- Records all events that occur on the computer.
  - Errors
  - Warnings
  - Information
- Useful for troubleshooting Windows and application errors.

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Troubleshooting Methodology
Tools that may aid you – Event Viewer



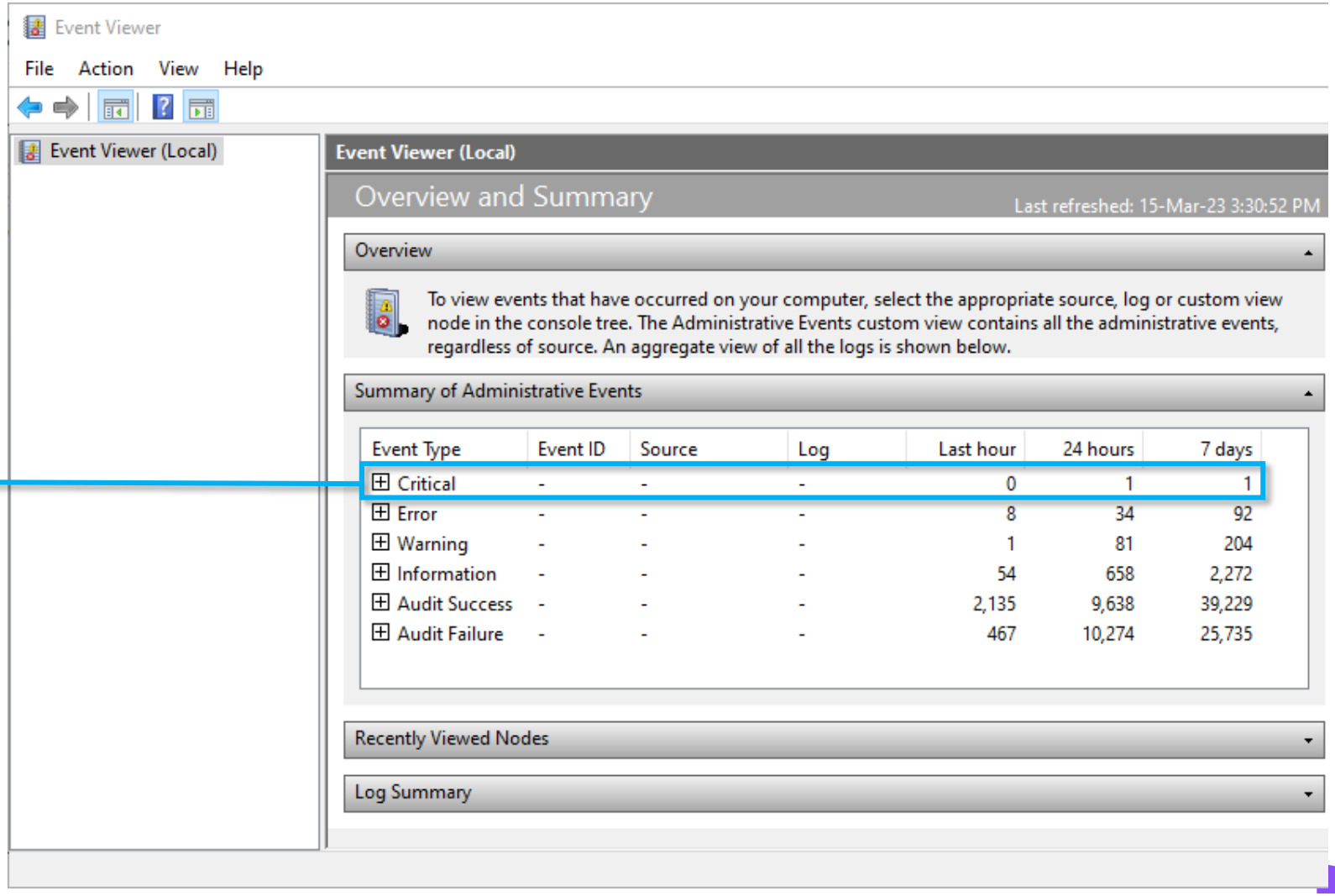
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Troubleshooting Methodology
Tools that may aid you – Event Viewer

A critical event that potentially indicates a problem that needs to be addressed.

Example: A sudden system crash or unexpected reboot.



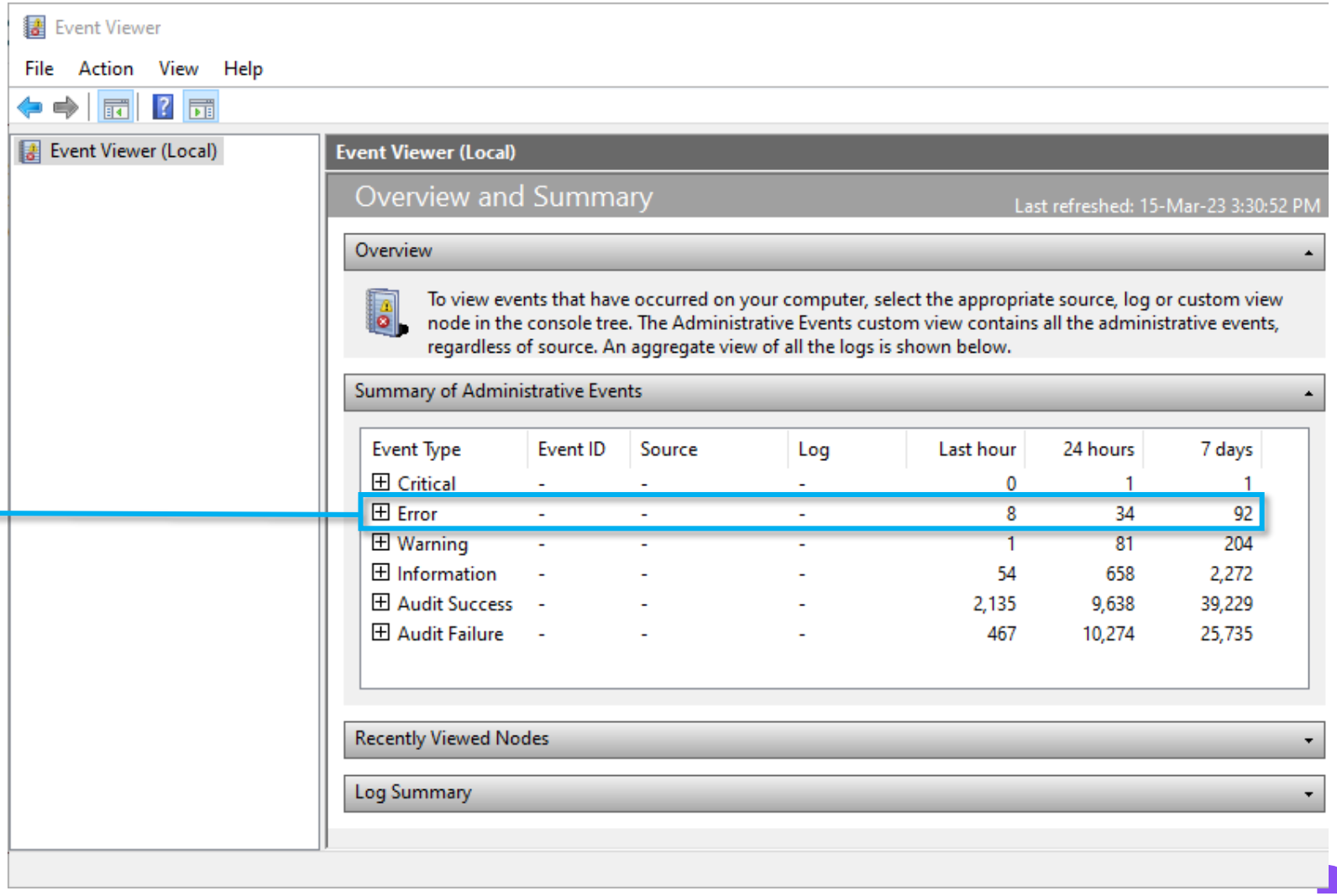
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Troubleshooting Methodology
Tools that may aid you – Event Viewer

A significant problem such as loss of data or functionality.

Example: A service failed to load at startup



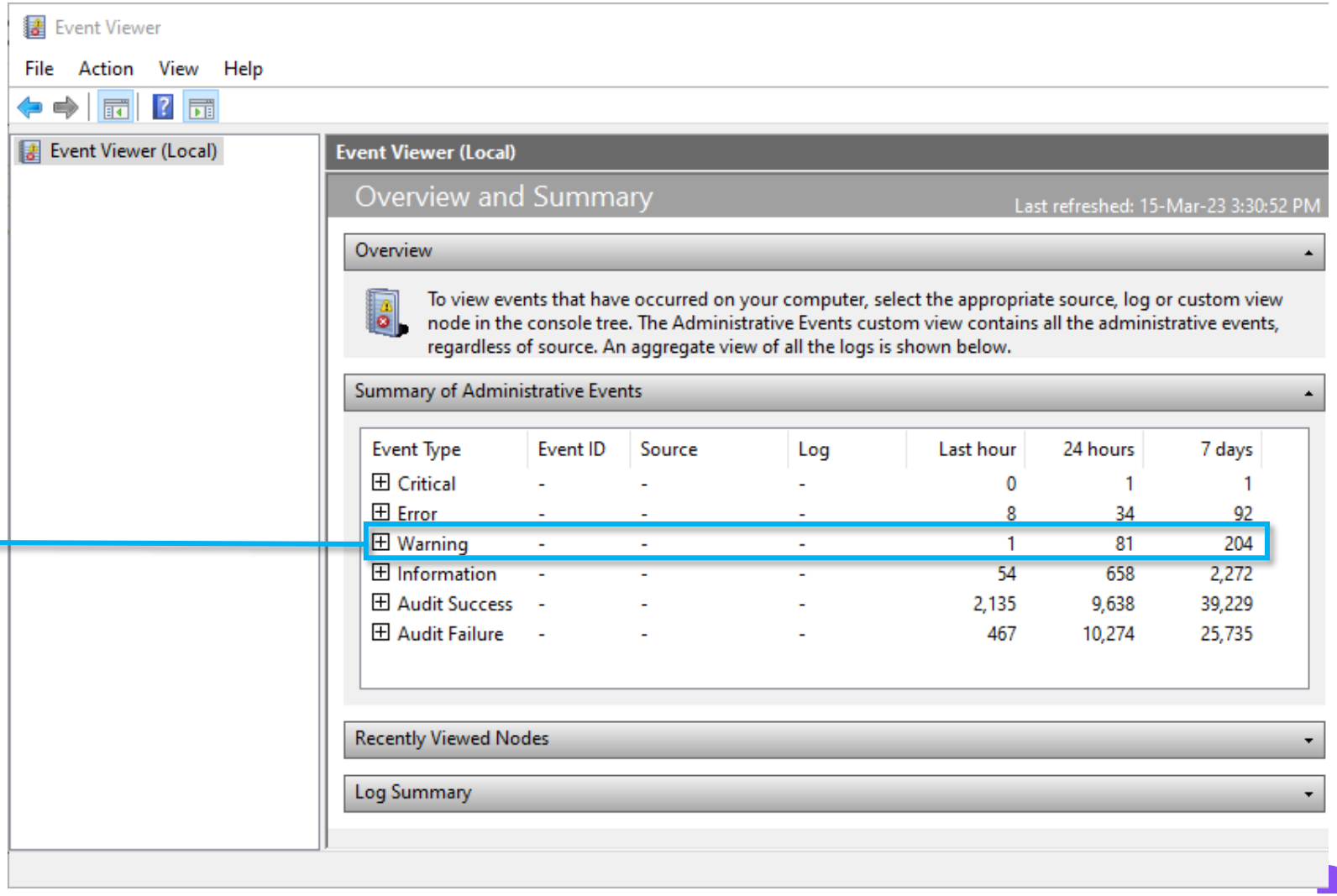
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Troubleshooting Methodology
Tools that may aid you – Event Viewer

An event that's not significant, but may indicate a possible future problem.

Example: A CPU core speed being limited



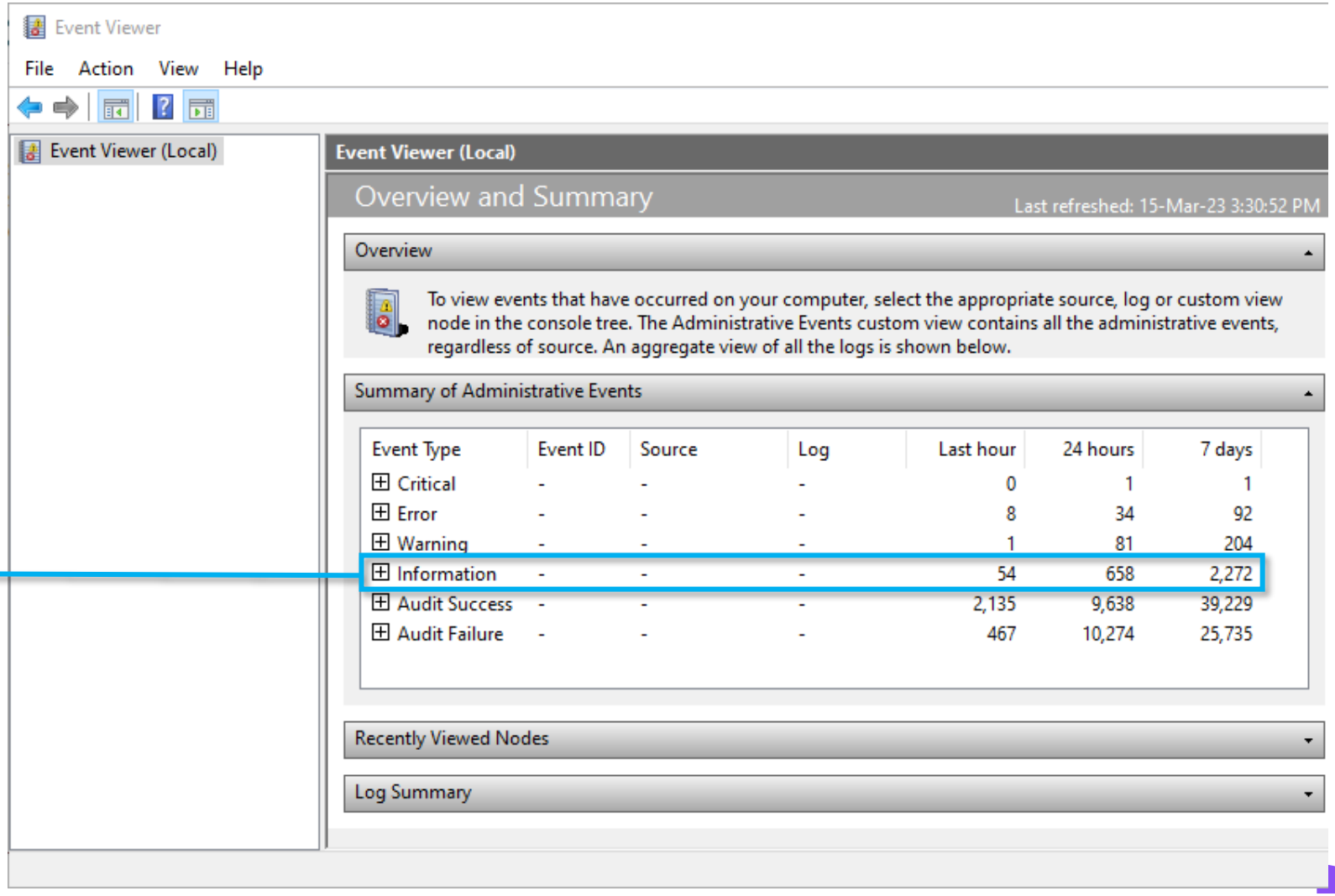
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Troubleshooting Methodology
Tools that may aid you – Event Viewer

An event that describes the successful operation of an application, driver or service.

Example: A computer waking up from sleep state



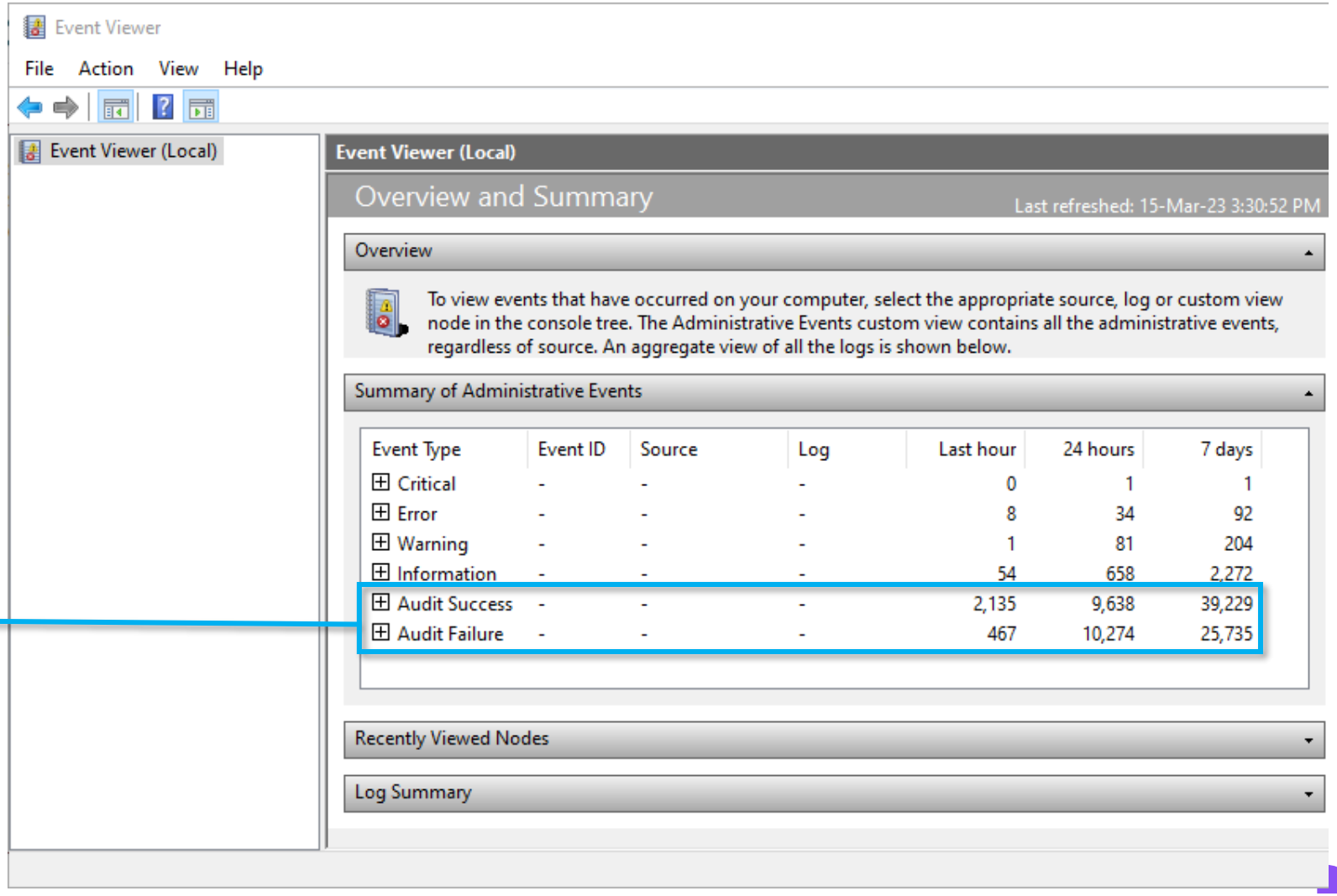
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Troubleshooting Methodology
Tools that may aid you – Event Viewer

An audited security access attempt that succeeds or fails.

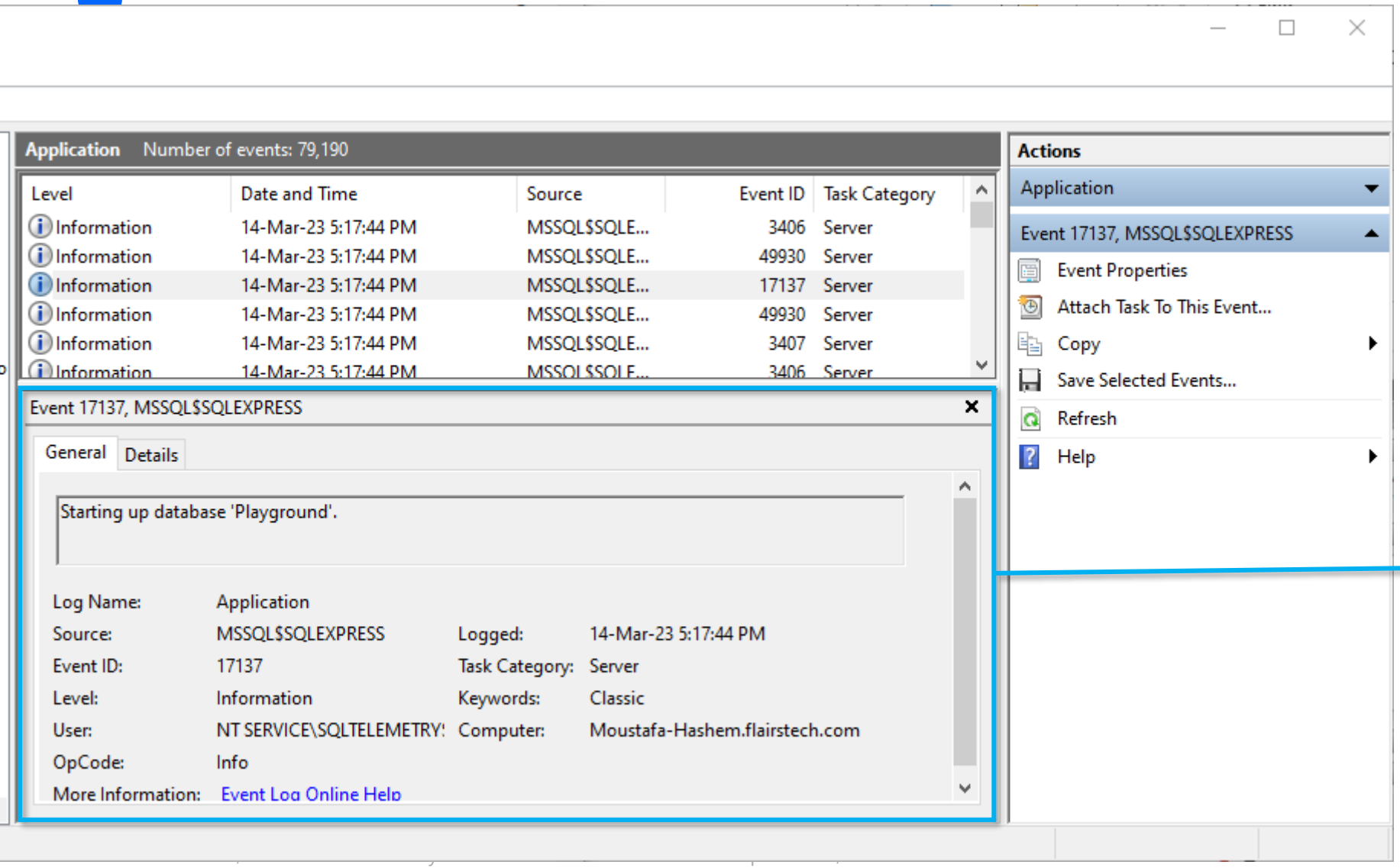
Example: A user's successful attempt to login to the system



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Troubleshooting Methodology
Tools that may aid you – Event Viewer

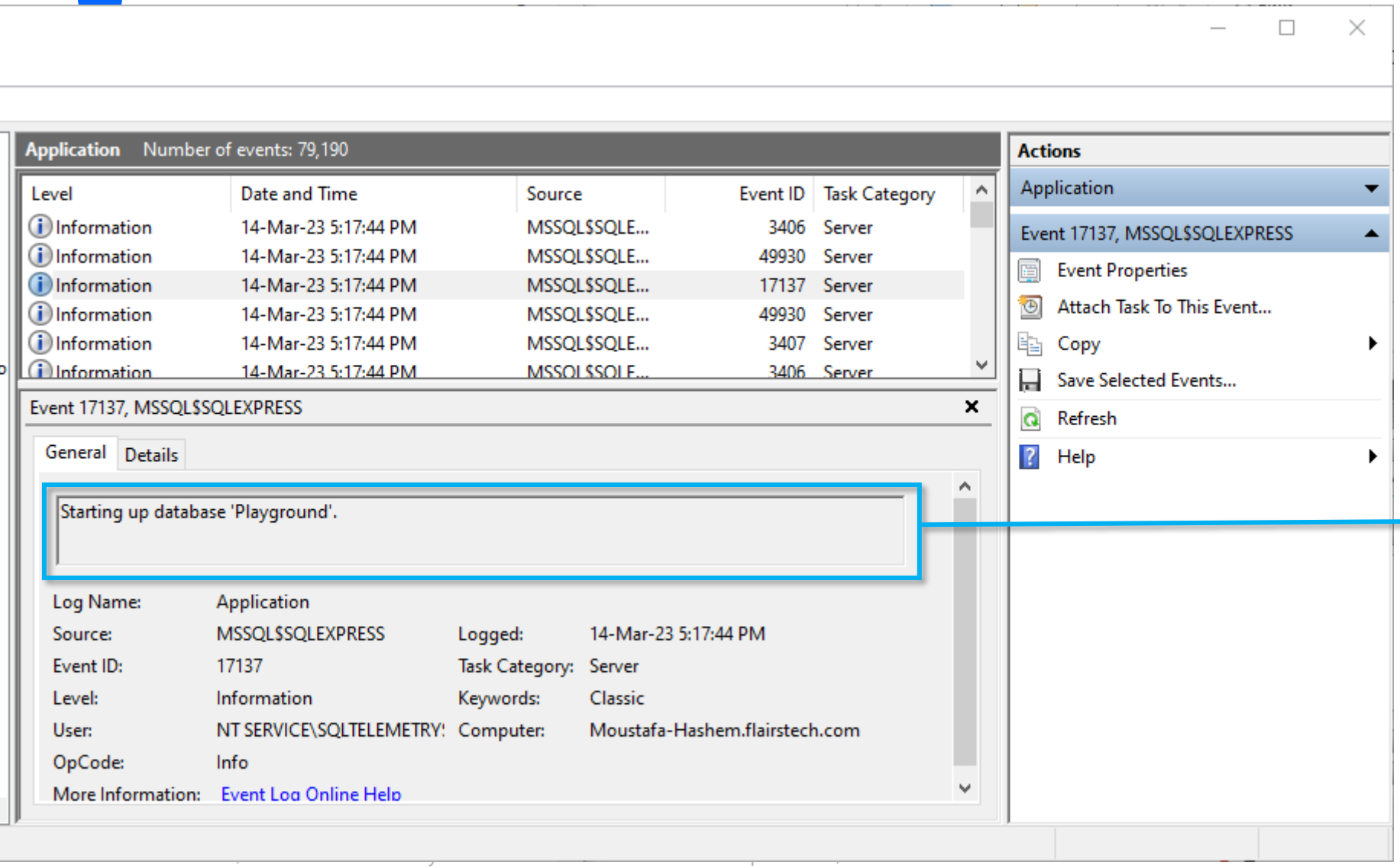


Properties of an **Information** event, logged on 14 March 2023 related to Microsoft SQL server.

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Troubleshooting Methodology
Tools that may aid you – Event Viewer

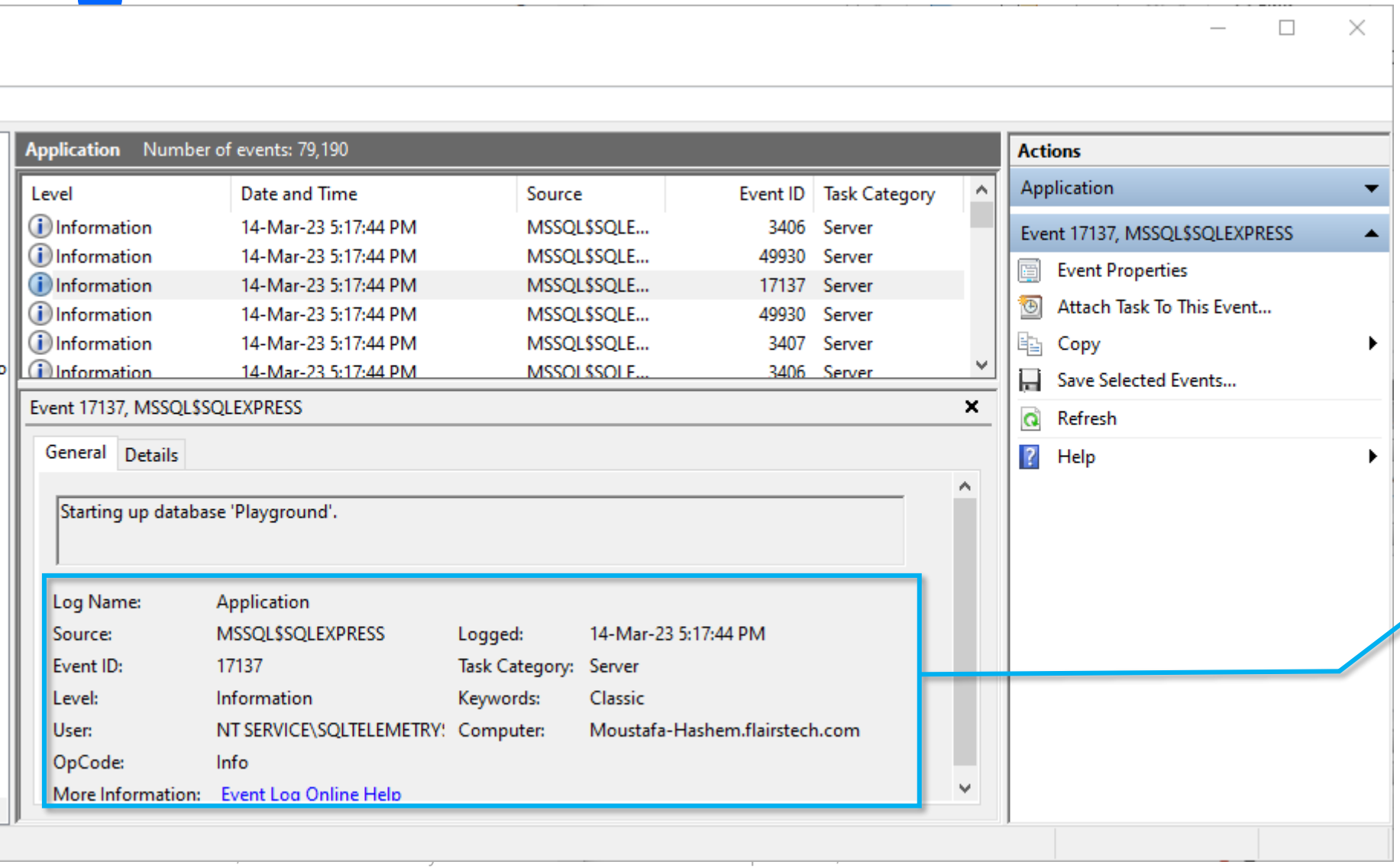


Event description, stating that for this specific event the database named Playground has attempted to start.

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Troubleshooting Methodology
Tools that may aid you – Event Viewer



Properties of the event:

- Source of event
- When it happened
- Task category
- Computer the event occurred on.

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Questions?

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