Troubleshooting Storage

At the end of this episode, I will be able to:

1. Identify common storage issues.

Exam Objective: 5.3 - Given a scenario, troubleshoot and diagnose problems with storage drives and RAID arrays.

Description: In this episode, we will discuss issues related to storage issues and common causes.

- Common symptoms
  - **Damage**
    - Light-emitting diode (LED) status indicators
    - Grinding noises
    - Clicking sounds
    - RAID failure
  - **Connections and configuration**
    - Bootable device not found
    - Missing drives in OS
    - Data loss/corruption
      - Demo: Write-cache enabled
      - Demo: Error checking with chkdsk

- RAID failure
- **Performance**
  - Self-monitoring, Analysis, and Reporting Technology (S.M.A.R.T.) failure
  - Extended read/write times
    - Demo: Drive optimization
      - HDD = Defrag
      - SSD = TRIM
  - Input/output operations per second (IOPS)

- Additional Reference Materials
  - Not applicable if blank.