Lab #04a: Windows Event Viewer Exploration

Goal: Identify a failed login attempt and a system shutdown event using Event Viewer

© Learning Objectives:

- Navigate Windows Event Viewer
- Analyze different types of logs (Application, Security, System)
- Locate and interpret a failed login attempt
- Locate and interpret a system shutdown or reboot event

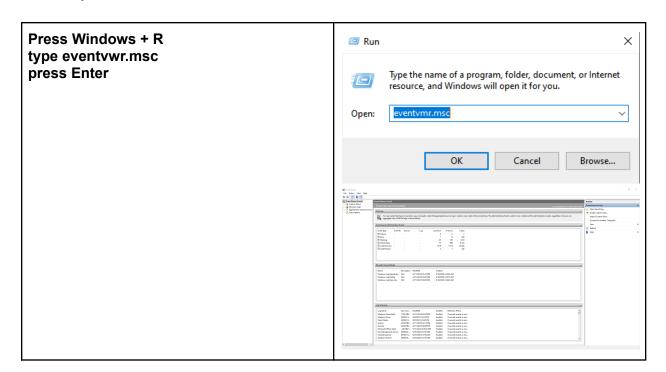
X Lab Environment Requirements:

- A Windows system (Windows 10 or 11 recommended)
- Admin privileges

Step-by-Step Instructions / Summary

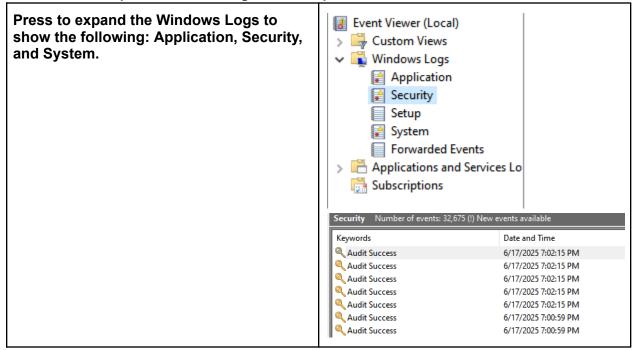
- Step 1: Open Event Viewer
- Step 2: Explore Log Types
- Step 3: Locate a Failed Login Attempt
- Step 4: Trigger a Failed Login
- Locate a Shutdown or Restart Event

1. Open Event Viewer

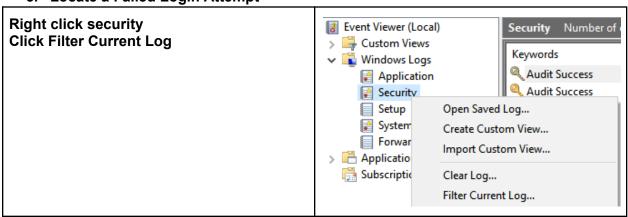


2. Explore Log Types

a. Expand the following in the left panel

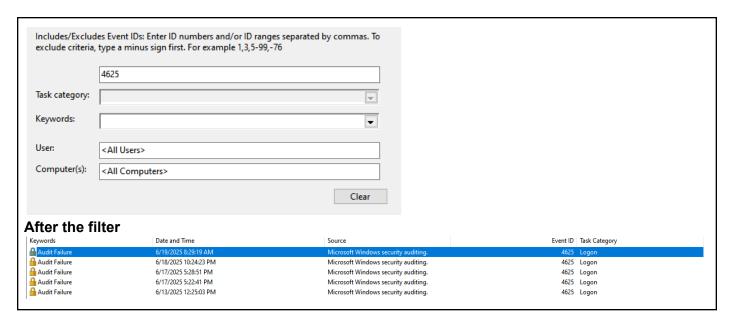


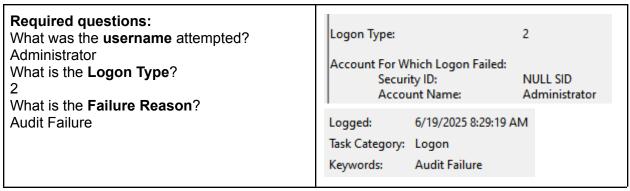
3. Locate a Failed Login Attempt



Apply filter

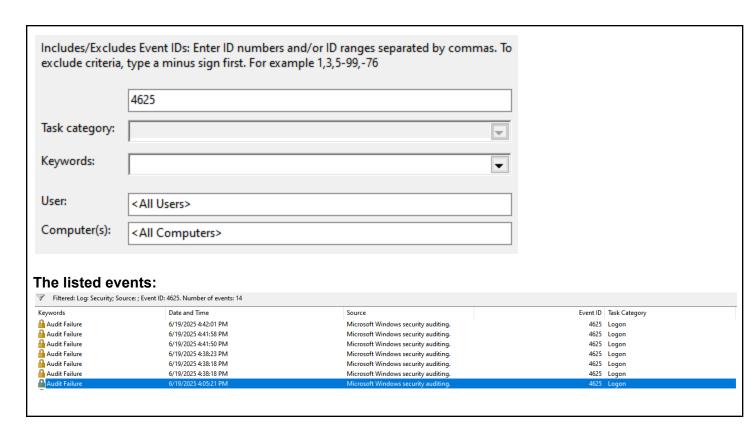
Set Event IDs: 4625 (Failed login)

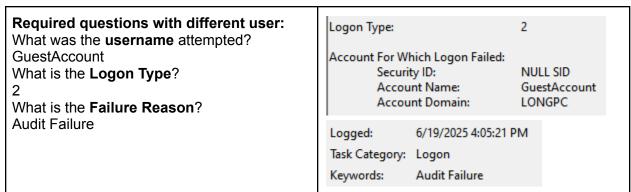




- 4. Trigger a New Failed Login
 - a. Log out and try to login with an incorrect password
 - b. Repeat Step 3 to find new entry

After signing out, I used a guest account and then utilized the run command to open Event Viewer and next I applied the filter for id 4625.





5. Locate a Shutdown or Restart Event





Filter by Event IDs:

1074 (Planned shutdown/restart)

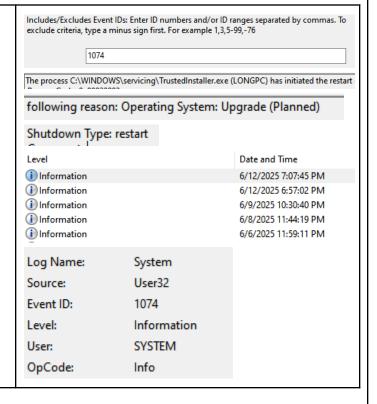
Required questions:

Was it planned or unexpected? It was planned

Who initiated it? It was initiated by SYSTEM

What was the reason?

Operating System: Upgrade (Planned)



6006 (Event log service shutdown – system going down)

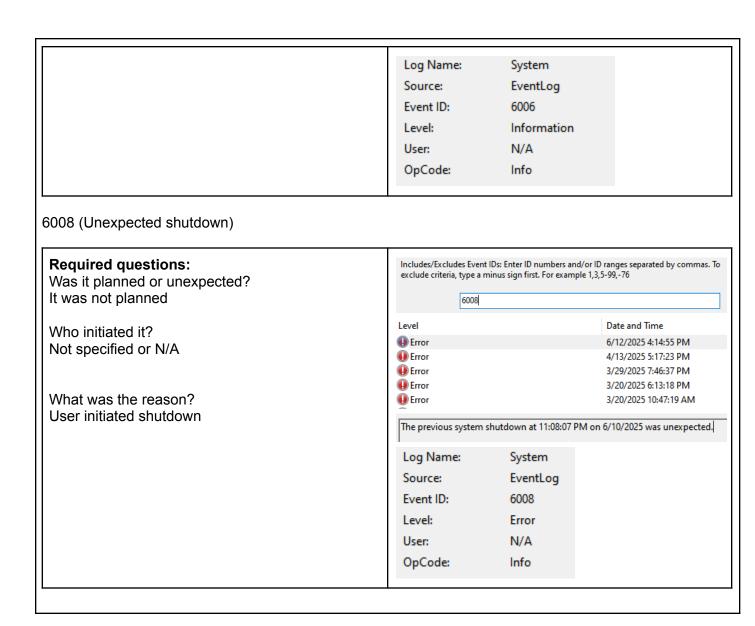
Required questions:

Was it planned or unexpected? It was Planned (Clean shutdown)

Who initiated it? Not specified or N/A

What was the reason? Event log service stopped due to restart/shutdown

Includes/Excludes Event IDs: Enter ID numbers and/or ID ranges separated by commas. To exclude criteria, type a minus sign first. For example 1,3,5-99,-76 6006 The Event log service was stopped. Level Date and Time Information 6/18/2025 11:16:41 PM Information 6/17/2025 11:19:06 PM Information 6/15/2025 8:25:03 PM Information 6/13/2025 2:03:13 PM (i) Information 6/13/2025 3:20:31 AM



a Tools & Skills Used

- Windows Event Viewer
- Security & System Log Analysis
- Event ID Filtering

Reflection & Takeaways

This lab helped me refresh my skills in navigating and analyzing logs using Windows Event Viewer. I found the **Security** logs to be the most helpful, especially in identifying any failed login attempts. As for the **System** logs, they provide me information about shutdowns and restarts.

Monitoring logs is an essential skill in cybersecurity because they can help detect suspicious activity, identify insider threats, and understand system events. My takeaway of this lab is the importance to distinguish false negatives and false positives providing critical to threat detection and response.