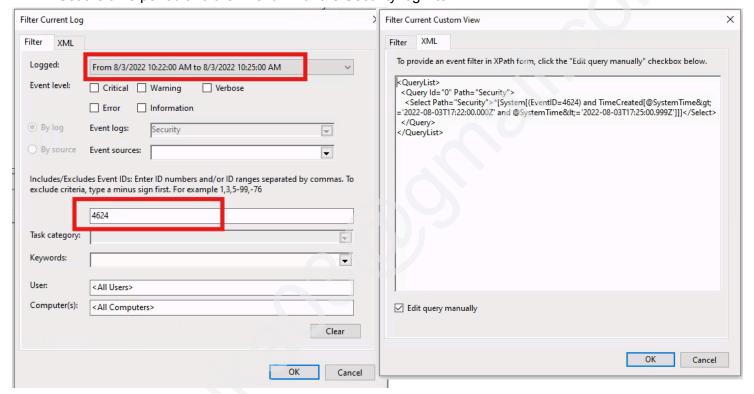
Windows Event Log Analysis with Filtering and XML Queries

Part 1 - Analyze the event with <u>Event ID 4624 - *An account was successfully logged on*</u>, that took place on 8/3/2022 at 10:23:25. Find the name of the executable responsible for the modification of the auditing settings.

Part 2 - Build an XML query to determine if the previously mentioned executable modified the auditing settings of C:\Windows\Microsoft.NET\Framework64\v4.0.30319\WPF\wpfgfx_v0400.dll. Find the time of the identified event

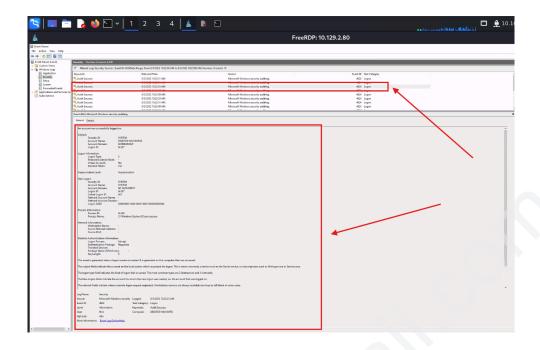
Part 1

1. Set the time period and the Event ID for the Security log filter.



Equivalent Query for the filter

2. Find the relevant event that took place on 8/3/2022 at 10:23:25.



3. Analyze the XML view of the event to identify the Logon ID associated with the specific event.

```
Event 4624, Microsoft Windows security auditing.
          General Details
             O Friendly View
                                                                                                                                                             XML View
                                                    <Event xmlns="http://schemas.microsoft.com/win/2004/08/events/event">
                                                                                      <Provider Name="Microsoft-Windows-Security-Auditing" Guid="{54849625-5478-4994-a5ba-3e3b0328c30d}"/>
                                                                                      <EventID>4624</EventID>
                                                                                      <Version>2</Version>
<Level>0</Level>
<Task>12544</Task>
                                                                                      <Opcode>0</Opcode>
                                                                                    <Opcode>0
<Opcode>0
Copcode>0
Copcode>0
Copcode>0
Copcode>0
Corelation ActivityID="{37c34816-a75d-0001-7b48-c3375da7d801}" />
<Comelation ActivityID="{37c34816-a75d-0001-7b48-c3375da7d801}" />
<Chanel>Security
Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Copcopit

Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Computer>0ESKTOP-NU10MTO
Computer
<p
                                                                      <Security />
</System>
<EventData>
                                                                                 data Name="SubjectUserSid">S-1-5-18<//d>
data Name="SubjectUserSid">S-1-5-18
data Name="SubjectUserName">DESKTOP-NUIOMTO$</pata>
data Name | SubjectUserName">DESKTOP-NUIOMTO$
data Name | SubjectLogonId">DESKTOP-NUIOMTO$
data Name | SubjectLogonId">DESKTOP-NUIOMTO$
data Name | TargetUserName">S-18
data Name | TargetUserName">S-18
data Name | TargetUserName">SYSTEM
data Name | TargetUserName">SYSTEM
data Name | TargetUserName">SYSTEM
data Name | TargetUserName">SYSTEM
data Name | TargetUserName">MUTHORITY
data Name | TargetUserName">MUTHORITY
data Name | LogonForcesName">Advapi
data Name | LogonForcesName">Advapi
data Name | LogonForcesName">Advapi
data Name | TargetUserName">Advapi
data Name | TargetUserName
"Obata Name | TargetUserName</pr
                                                                                      <Data Name="SubjectUserSid">S-1-5-18</Data>
                                                                                      Coata Name="ProcessName">C:\Windows\System32\services.exe</Data>

Coata Name="IpAddress">-
Coata Name="IpAddress">-
Coata Name="IpPort">-

Coata Name="IpPort">-

Coata Name="IpPort">-

Coata Name="IpPort">-

Coata Name="IpPort">-

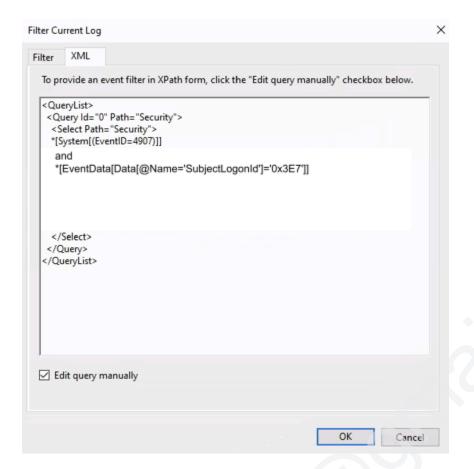
Coata Name="IpPort">-

Coata Name="IpPort">-

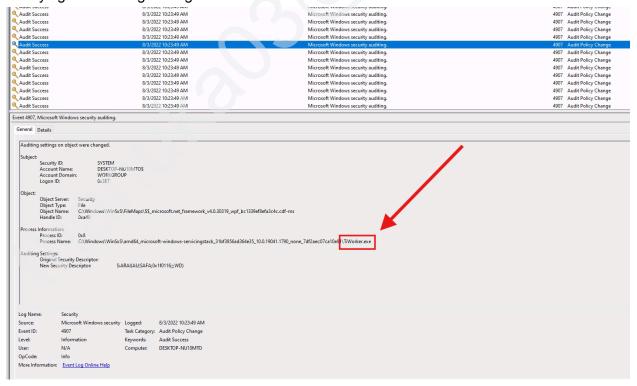
Coata Name="IpPort">-

Coata Name
                                                                                      \text{\partial} \text{\partial} \quad \quad \text{\partial} \quad \quad \text{\partial} \quad \quad \text{\partial} \quad \quad \quad \text{\partial} \quad 
                                                                                      </EventData>
```

4. Then, Use the following Query to filter only events with Logon ID 0x3E7 and Event ID 4907- modification of the auditing settings.

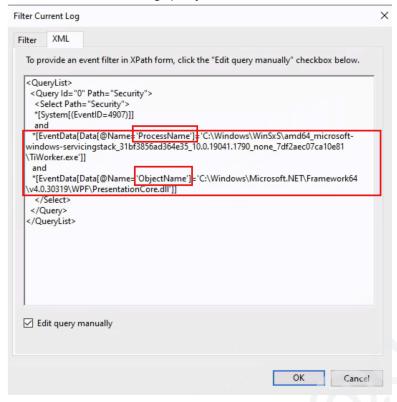


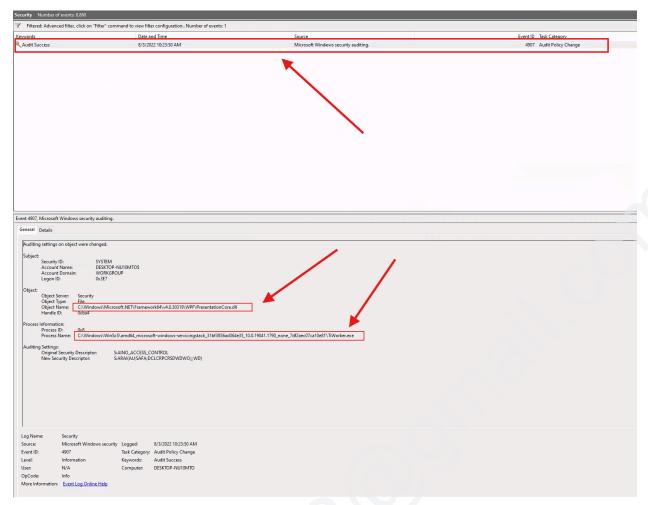
5. Analyze the 'Process Name' field in the output entries to identify the executable responsible for modifying the auditing settings.



Part 2

1. Execute the following query to obtain the event that corresponds to the given requirement.





** Relevant event showing the modification of auditing settings for C:\Windows\Microsoft.NET\Framework64\v4.0.30319\WPF\wpfgfx_v0400.dll by TiWorker.exe

Time of the identified event is 10:23:50 AM