Windows Event Log for User Logon/Logoff

- Windows records successful or failed logon/logoff events under the Security events category. Logon events are very useful for tracking user activity.
- Event ID 4624 Successful Logon
- Event ID 4625 Failed Logon
- Event ID 4634 Successful Logoff
- Event ID 4624 Successful Network Logon

Logon Type

In addition to date, time, username, hostname, and success/failure status of a logon, we can also determine by exactly what means a logon was attempted.

Logon type values:

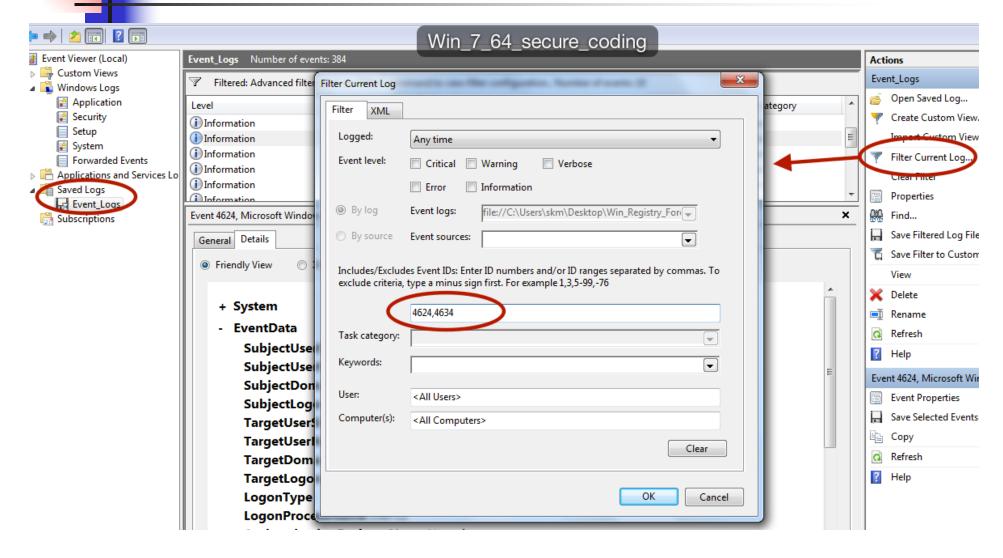
2	Logon via console
3	Network Logon
4	Batch Logon
5	Windows Service Logon
7	Credentials used to unlock screen
8	Network logon sending credentials (cleartext)
9	Different credentials used than logged on use
10	Remote interactive logon (RDP)
11	Cached credentials used to logon



Filter Event Logs for Logon

- Event Viewer is a built-in tool for exploring event logs.
- By default, it displays the live system event logs. It can also be used to explore the saved/exported event log files.
 - Open the saved event log files using event viewer.
 - Event viewer will open the log file under 'saved logs' category.
 - 3. Click on 'Filter Current Log' from Actions menu on the right. A window will open.
 - 4. Select 'Filter' tab and enter the event IDs (e.g. 4624,4634) in the Event ID box and select 'OK'.
 - 5. Filtered event logs will be displayed.
 - 6. Click on 'Details' tab in lower pane for more details of the event.

Filter Event Logs for Logon





Manually Filter Event Logs

- Open 'Filter Current Log' window. (Follow step 1-3 from previous section.)
- Select `XML' tab.
- Check the 'Edit query manually' box and hit 'ok' for confirmation.
- Enter the XML query to filter and click 'ok'.
- E.g. To filter all logon attempts by using explicit credentials:

```
<QueryList>
<Query Id="0" Path="file://C:\Users\IPAR\Desktop\Cases\Win_Registry_Forensics\Event_Logs.evtx">
      <Select Path="file://C:\Users\IPAR\Desktop\Cases\Win_Registry_Forensics\Event_Logs.evtx">*
      [System[(EventID=4624)]] and *[EventData[Data[@Name='LogonType'] and (Data=2)]]</Select>
      </Query>
      </QueryList>
```

Manually Filter Event Logs (Contd.)

r (Local) Event_Logs Number of events: 384 Actions Views Event_Logs Filtered: Advanced filter Filter Current Log s Logs Open Saved Log... ication ategory XML Filter rity Create Custom View... Information р To provide an event filter in XPath form, click the "Edit query manually" checkbox below. Import Custom View... (i) Information em (i) Information Filter Current Log... rarded Events <OuervList> Information <Query Id="0" Path="file://C:\Users\IPAR\Desktop\Cases\Win_Registry_Forensics ions and Services Lo Clear Filter (i) Information ogs <Select Path="file://C:\Users\IPAR\Desktop\Cases\Win_Registry_Forensics Properties (Information t_Logs Event_Logs.evtx">*[System[(EventID=4624)]] and *[EventData[Data[@Name='LogonType'] Find... Event 4624, Microsoft Windo × itions and (Data=2)]]</Select> </Query> Save Filtered Log File As... General Details </QueryList> Save Filter to Custom View... Friendly View View 🔀 Delete + System Rename - EventData Refresh SubjectUse SubjectUse Event 4624, Microsoft Windows sec SubjectDon **Event Properties** SubjectLog Save Selected Events... TargetUser! Edit query manually Copy TargetUser Refresh TargetDom Relp TargetLogo LogonType OK Cancel LogonProce