
Digital Forensics - Lab 3

Class No :	CH2021221000516	Slot :	L49 + L50
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- 19 August 2021

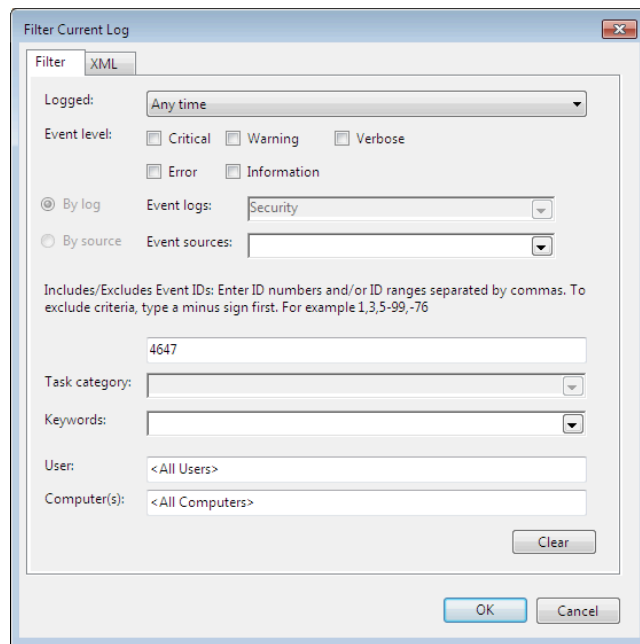
Question 1 :

Use the Event Viewer tool in a Microsoft Windows computer and take screenshots of THREE security related events such as

“Logon”, “Logoff”, & “Attempt made to query the existence of a blank password for an account”

The Microsoft Event Viewer tool is used to display a log of application and system messages, including errors, information messages, and warnings. It's a useful tool for troubleshooting all kinds of different Windows problems. But here our purpose is to use this tool to perform forensic analysis into the system. These logs are very useful as they provide elaborate and detailed occurrences of events in the computer which can be used to build a timeline in the case of an investigation, or to perform any other number of operations.

In this exercise, we will use this tool to find the events like log in log out and an attempt to query the existence of blank password user account. Each event has a particular Event ID which can be used to query the logs available and filter out the results. The following image shows how a filter can be applied to the logs :

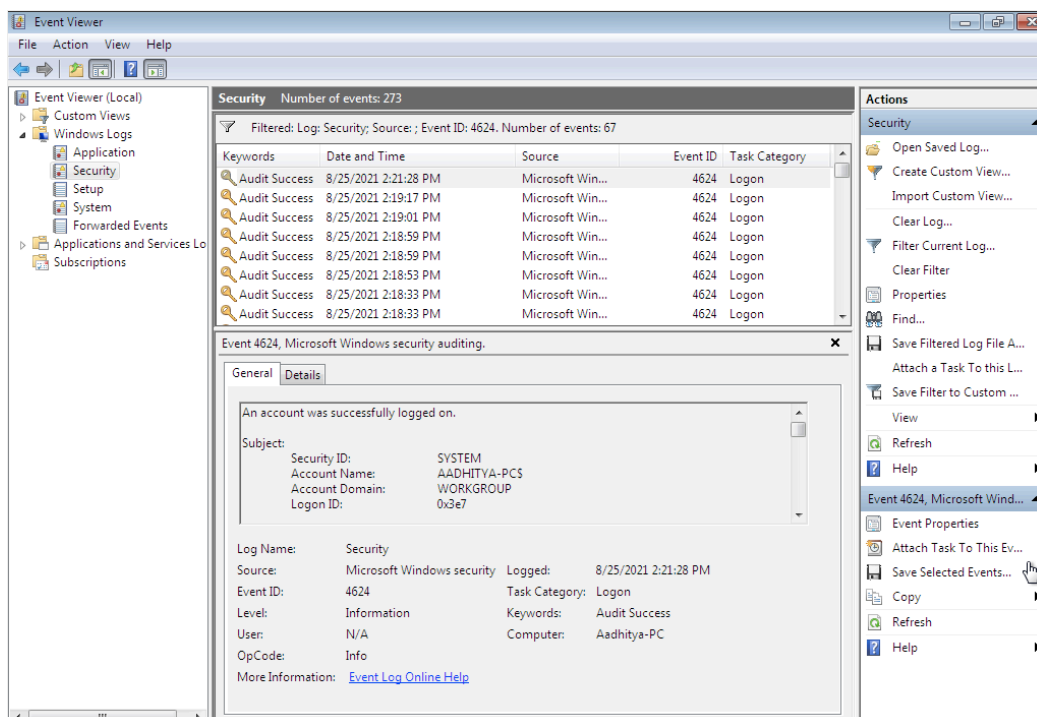


After we have entered the required event ID, the event viewer filters out events of this category and presented them, each of whose details have been displayed in the details section below.

We shall see the events in the below sections :

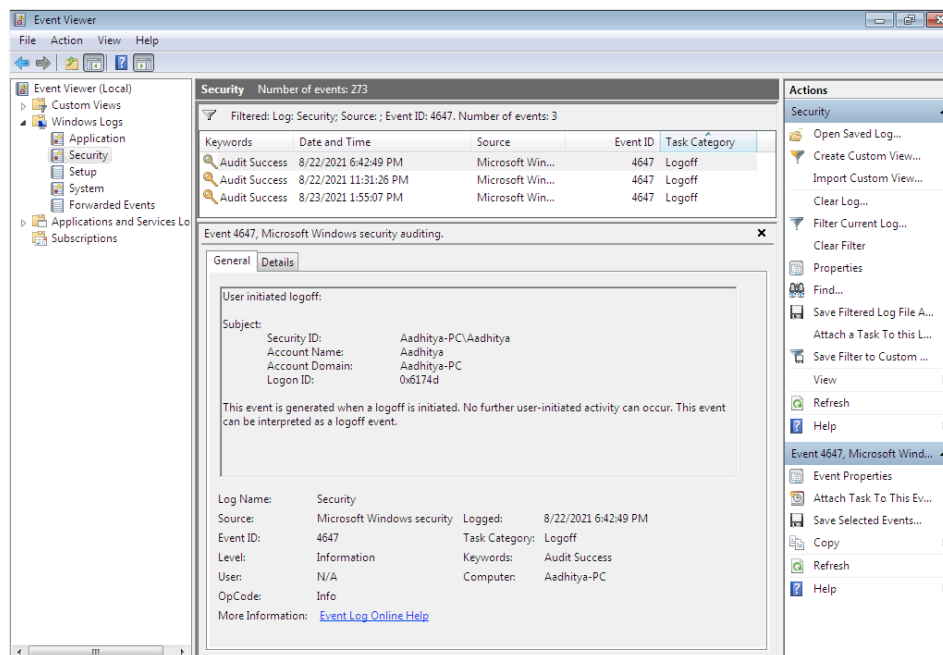
A. Logon Event

The **Login** Event has the event ID as **4624**. This means that the account was successfully logged on.



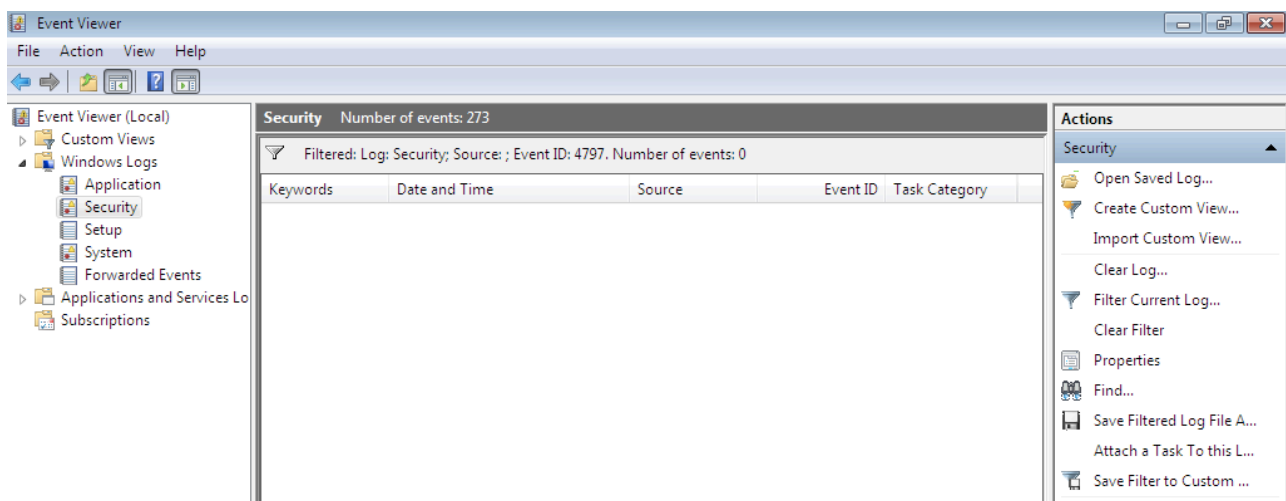
B. Logoff Event

The **Logoff** Event has the event ID as **4647**. This means that the account was successfully logged out by the initiation of the user.



C. Attempt made to query the existence of a blank password for an account Event

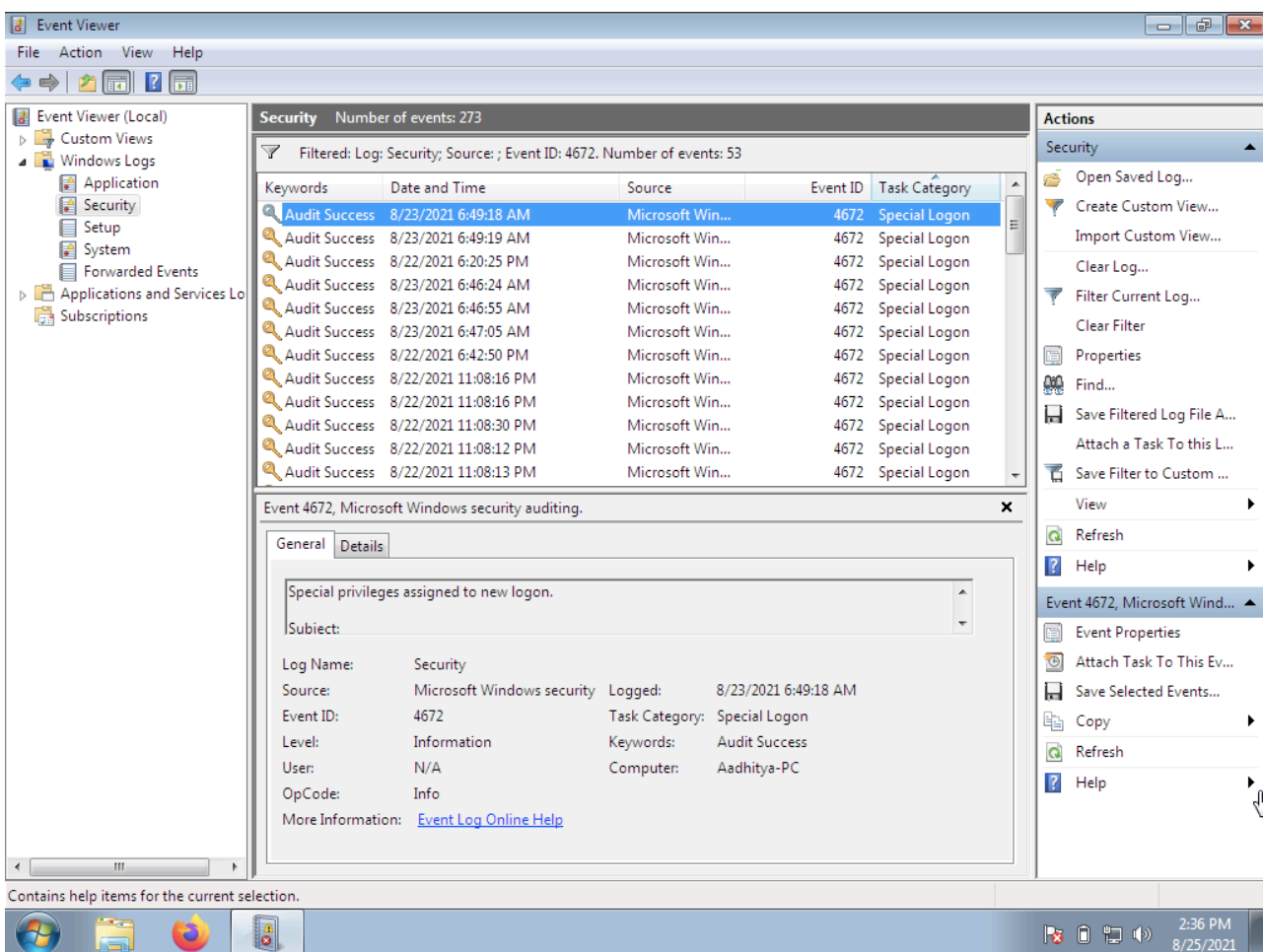
The **“Attempt made to query the existence of a blank password for an account”** Event has the event ID as **4797**. We use this for the querying procedure. As this error is relatively rare and because this command has been executed on a fresh installation of windows, it has resulted in an empty query.



Log Name:	Security	Logged:	26-08-2021 09:28:48
Source:	Microsoft Windows security	Task Category:	User Account Management
Event ID:	4797	Keywords:	Audit Success
Level:	Information	Computer:	LAPTOP-5S8SM3BE
User:	N/A		
OpCode:	Info		
More Information:	Event Log Online Help		

D. Special Logon Event

The **Special Logon Event** has the event ID as **4762**. This means that the account was granted special permissions while it was successfully logged on.



In this manner, the Event Viewer tool helps us to perform Forensic analysis in a computer, which can help investigations of any scale in this age of computers.

Question 2 :

Utilise The Event Log Explorer tool on a Windows computer and take screenshots of two security related events such as those listed in the previous exercise.

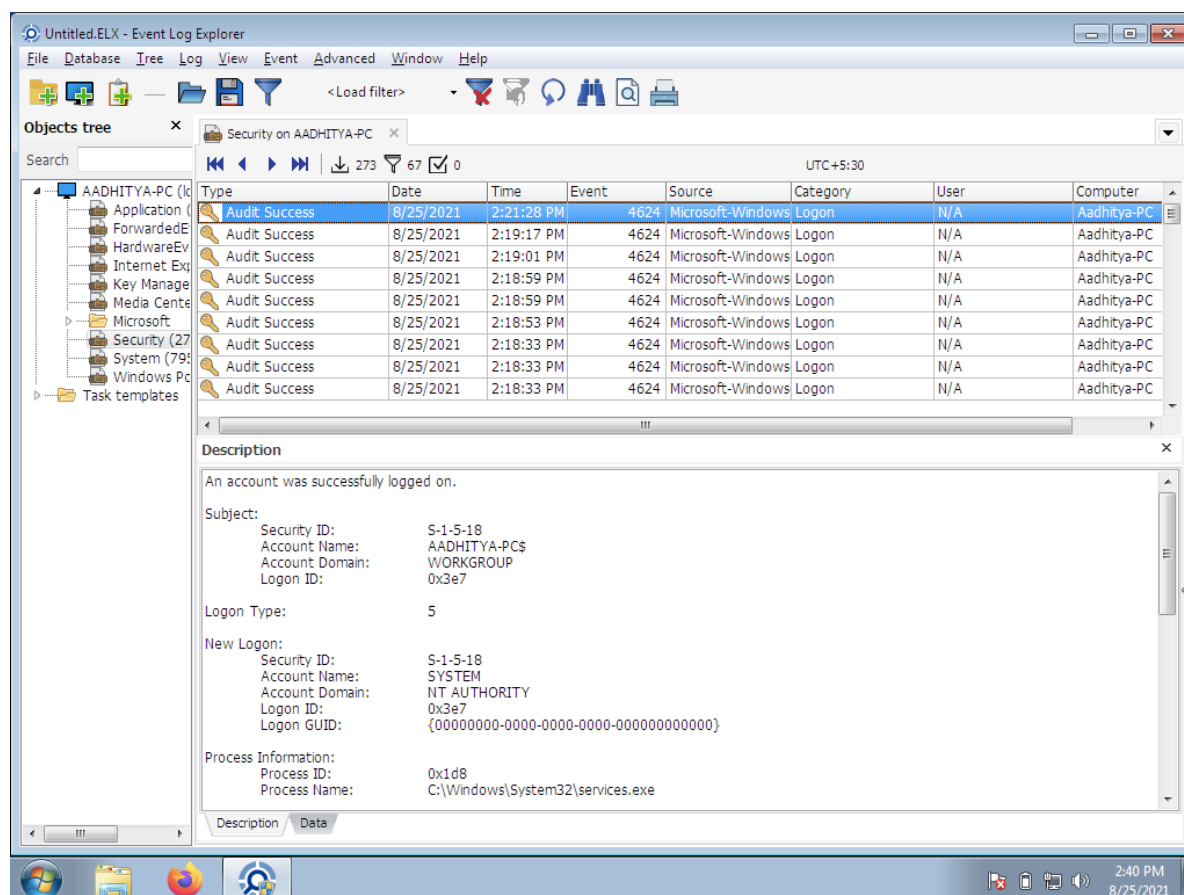
The Event Log Explorer is an effective software solution for viewing, analyzing and monitoring events recorded in Microsoft Windows event logs. Event Log Explorer greatly simplifies and speeds up the analysis of event logs (security, application, system, setup, directory service, DNS and others). Event Log Explorer extends the standard Windows Event Viewer functionality and brings many new features.

Let us now run a few commands and explore this tool and see how this tool is similar to the event viewer as discussed above :

We shall see the events in the below sections :

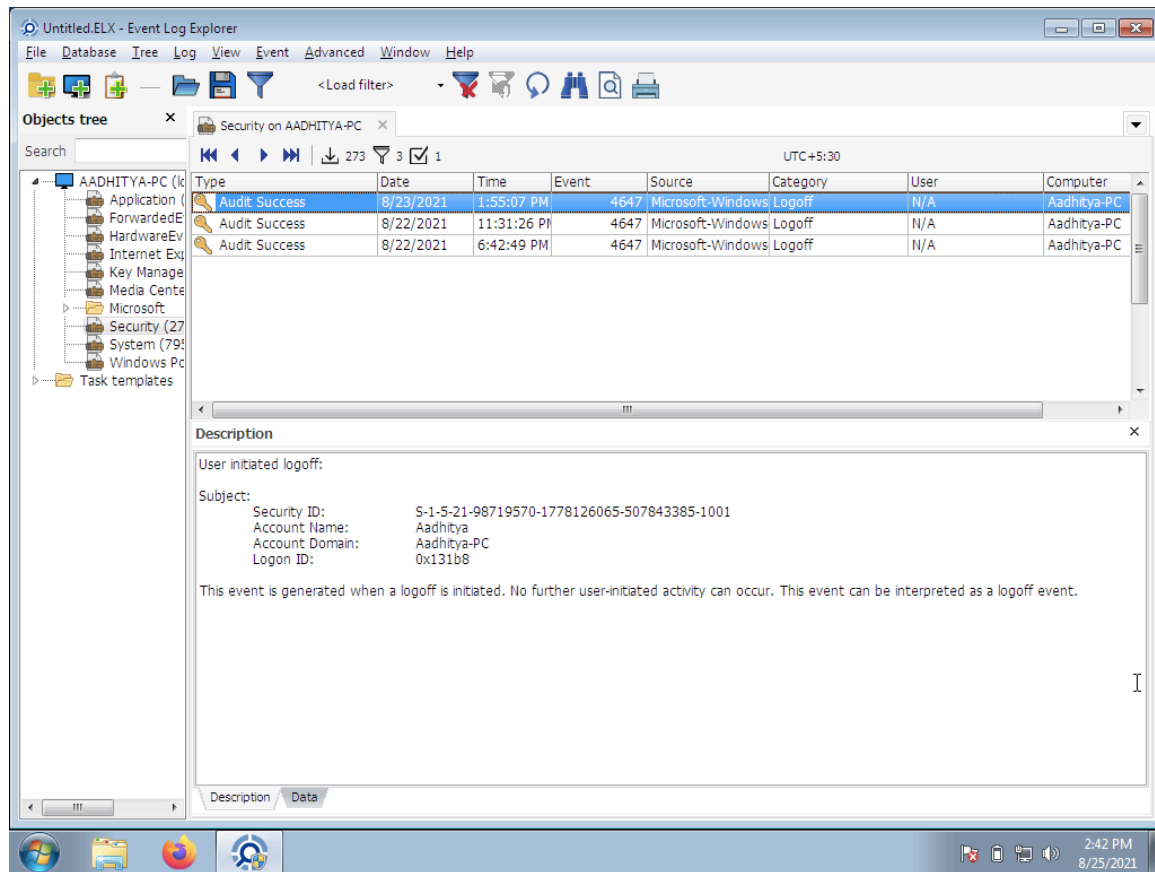
A. Logon Event

The **Logon** Event has the event ID as **4624**. This means that the account was successfully logged on.



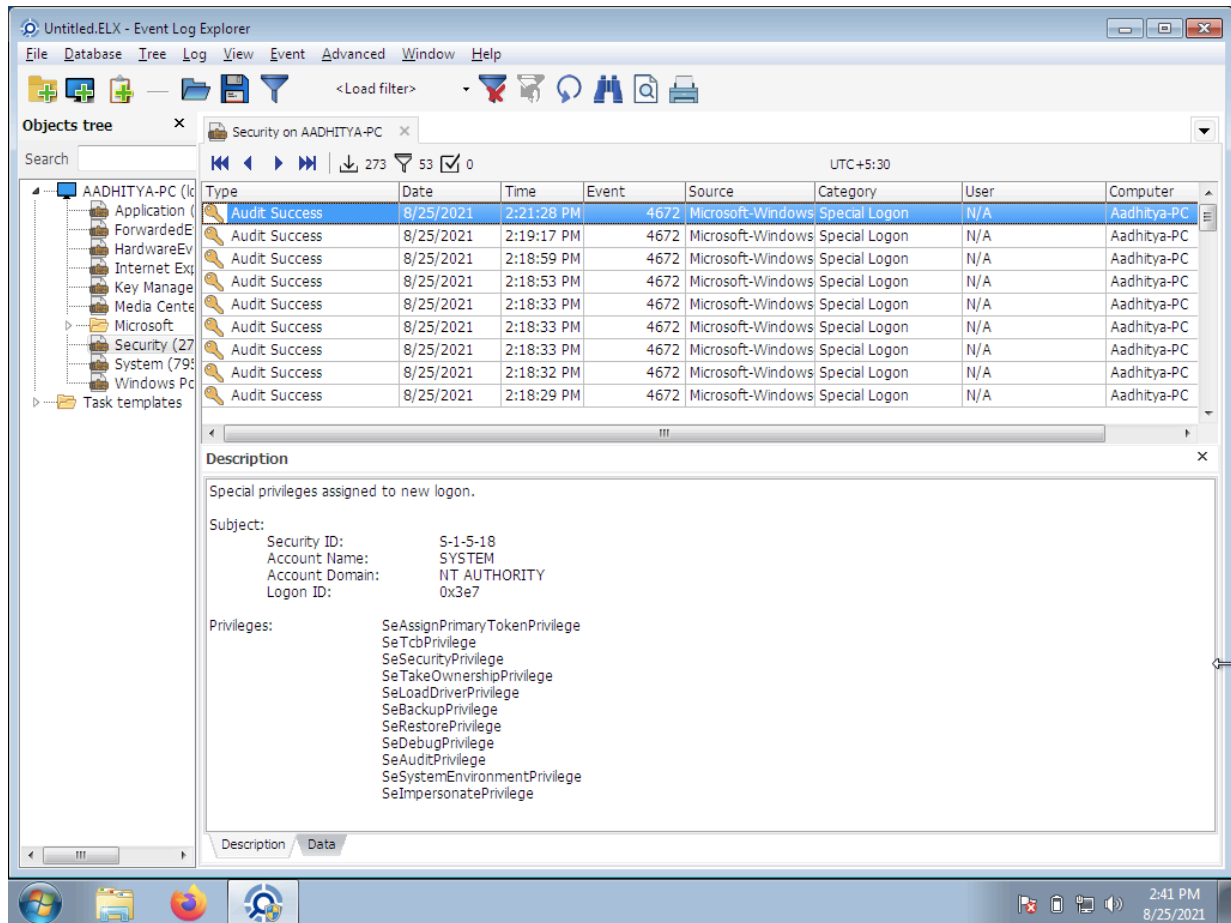
B. Logoff Event

The **Logoff** Event has the event ID as **4647**. This means that the account was successfully logged out by the initiation of the user.



C. Special Logon Event

The **Special Logon Event** has the event ID as **4762**. This means that the account was granted special permissions while it was successfully logged on.



Thus we can infer that this even log explorer is also a tool similar to the event viewer with many more functionalities than the former

CONCLUSION

In this lab experiments, we have dealt with and seen two softwares which provide functionalities for useful and ease of forensic analysis.