

EVENTS ARE IMPORTANT – CHALLENGE

SCENARIO

You were hired by the CEO of Alex's HighT to investigate unusual activity on the network.

All you receive to work with is a log file.

OBJECTIVES

- Find the user account that logged in.
- Find the login date.
- Find the IP of the account used to log in.

PROGRAM USED

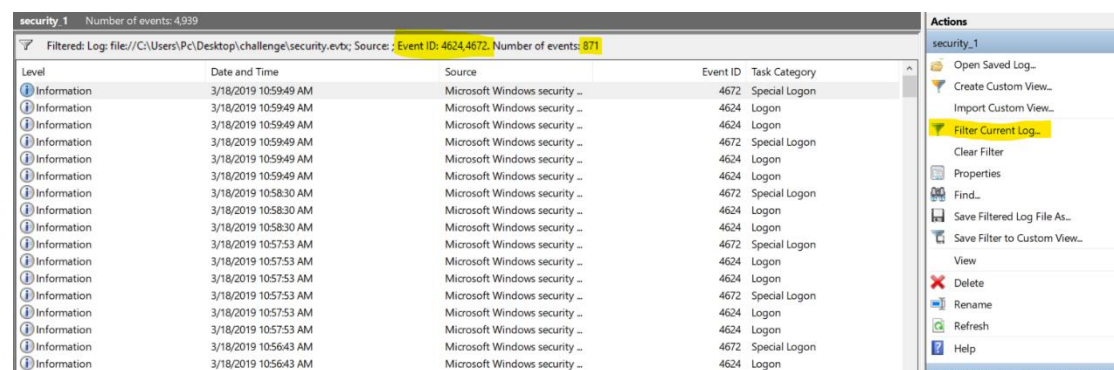
Windows Event Viewer.

Splunk.

First of all I entered the event viewer and attached the given file in. “security.evtx”

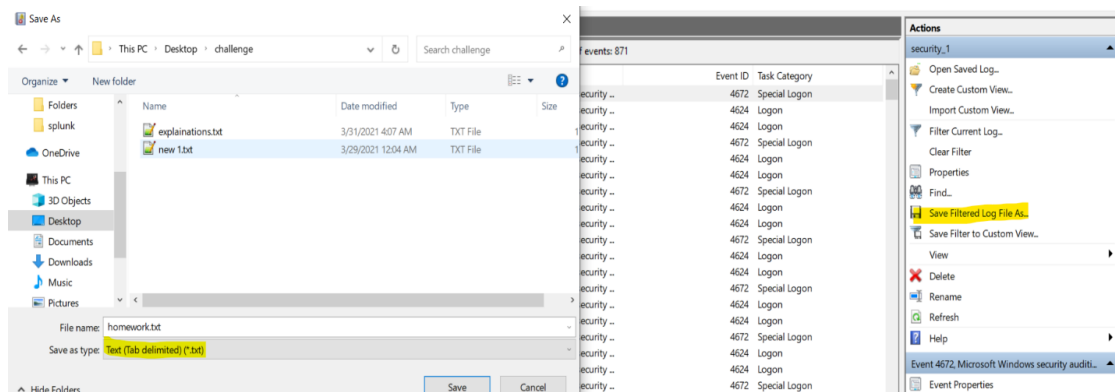
To detect any suspicious activity first of all we need to start looking for logged in accounts:

I filtered the log typing EventID “4624,4672” checking all kind of logged in accounts (4624 Logon, 4672 Special Logon). Special logon means logon with privileged account.



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As you can see in the image we have a lot of events (871), and it would be hard to start digging and searching one by one, so I uploaded the file to Splunk (used 'Save Filtered Log File As' then saved as '.txt file').



detecting suspicious activity:

- 1) Usually it would be suspicious to see Logon and Special Logon after with the same LogonID. (LogonID is unique number that defines the logon session).

An account was successfully logged on.

Subject:

| | |
|-----------------|---------------|
| Security ID: | SYSTEM |
| Account Name: | HACKERU7-PC\$ |
| Account Domain: | BLACKPARADE |
| Logon ID: | 0x3E7 |

Logon Type: 11

New Logon:

| | |
|-----------------|---|
| Security ID: | S-1-5-21-1327243971-766763558-3563500504-1103 |
| Account Name: | paradeadmin |
| Account Domain: | BLACKPARADE |
| Logon ID: | 0xBC933 |
| Logon GUID: | {00000000-0000-0000-0000-000000000000} |

Special privileges assigned to new logon.

Subject:

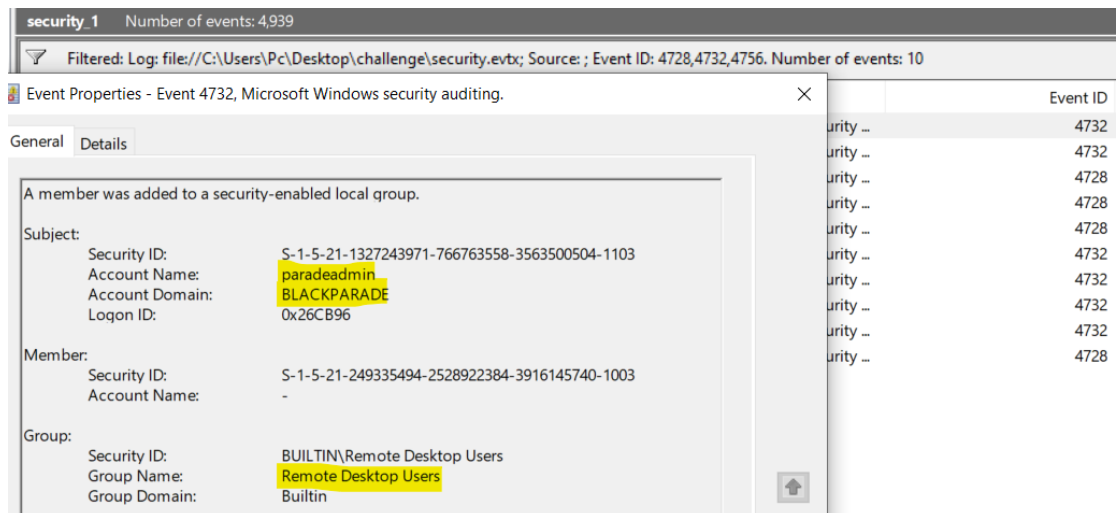
| | |
|-----------------|---|
| Security ID: | S-1-5-21-1327243971-766763558-3563500504-1103 |
| Account Name: | paradeadmin |
| Account Domain: | BLACKPARADE |
| Logon ID: | 0xBC90D |

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- 2) Based on a search I've done checking what accounts were added to security groups:

EventID "4728,4728": added to security-enabled local/global group.

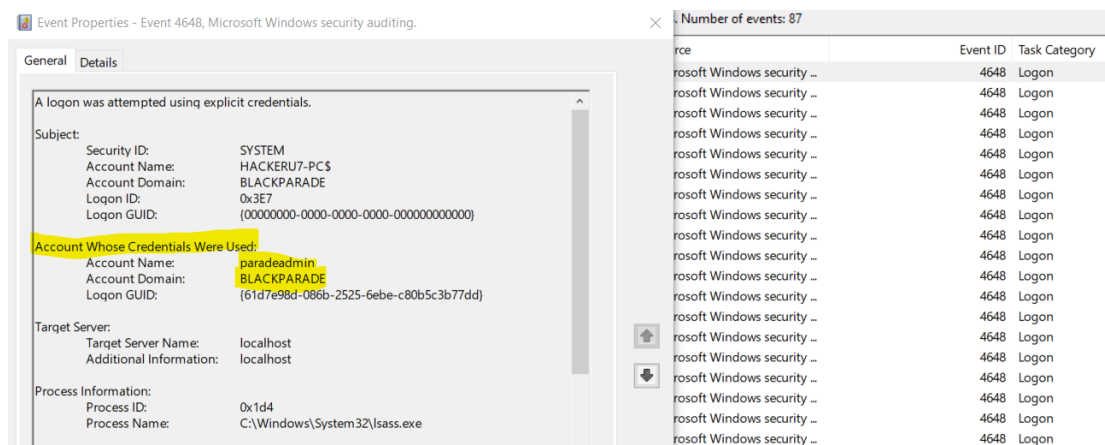
We can see that the account **BLACKPARADE/paradmin** was enabled under “Remote Desktop Users”



- 3) Checking which account were logged remotely / with another credentials:

EventID: "4648: logon was attempted using explicit credentials."

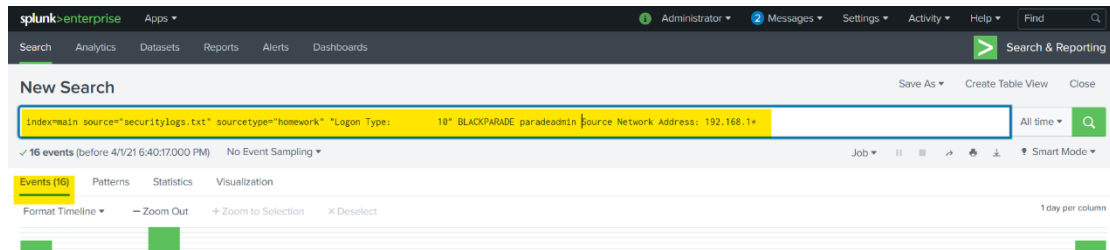
We can see that the credentials of **BLACKPARADE/paradmin** was used the most.



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Now after having the file in Splunk, and the suspicious DOMAIN/ACCOUNT, I start searching for suspicious Logon Type (Logon type indicates the kind of logon that occurred).


Suspicious Logon Type that found in the log was Logon Type 10 (connecting from a remote machine via RDP (using Remote Desktop, Terminal Services or Remote Assistance)).



Suspicious account located:

| i | Time | Event |
|---|----------------------------|--|
| > | 3/18/19 10:58:30.000 AM | <div><div>Information</div><div>3/18/2019 10:58:30 AM Microsoft-Windows-Security-Auditing 4624 Logon "An account was successfully logged on."</div><div>Subject:</div><div><div>Security ID: SYSTEM</div><div>Account Name: HACKERU7-PC\$</div><div>Account Domain: BLACKPARADE</div><div>Logon ID: 0x3E7</div></div><div>Logon Type: 10</div><div>New Logon:</div><div><div>Security ID: S-1-5-21-1327243971-766763558-3563500504-1103</div><div>Account Name: paradeadmin</div><div>Account Domain: BLACKPARADE</div><div>Logon ID: 0xA0D9A</div><div>Logon GUID: {9f319063-c581-e10a-0eff-ee726641b4d2}</div></div><div>Process Information:</div><div><div>Process ID: 0xb80</div><div>Process Name: C:\Windows\System32\winlogon.exe</div></div><div>Network Information:</div><div><div>Workstation Name: HACKERU7-PC</div><div>Source Network Address: 192.168.1.109</div><div>Source Port: 57606</div></div><div>Detailed Authentication Information:</div><div><div>Logon Process: User32</div><div>Authentication Package: Negotiate</div><div>Transited Services: -</div><div>Package Name (NTLM only): -</div><div>Key Length: 0</div></div><div>This event is generated when a logon session is created. It is generated on the computer that was accessed.</div><div>The subject fields indicate the account on the local system which requested the logon. This is most commonly a service such as the Server service, or a local process such as Winlogon.exe or Services.exe.</div></div> |

Challenge completed:



Submit The Flags

BLACKPARADE\paradeadmin

18/03/2019

192.168.1.109

SUBMIT