

Incident Response: Windows Account Management Event (Part 1)

August 29, 2020 By Raj Chandel

For a system to perform well and ensure its maintenance, it is extremely important to monitor and manage events on a system. Event Logs are part of the Windows system, that are created by on a system and can be checked locally or remotely on regular intervals by an administrator or any user. These logs can then be imported and viewed in a SIEM tool to ensure efficient Incident Response.

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Security Policy Settings

They are set of rules that an administrator uses to configure a computer or multiple devices for securing resources on a device or network. The Security Settings extension of the Local Group Policy Editor allows you to define a security configuration as part of a Group Policy Object (GPO).

The GPOs are linked to Active Directory containers such as sites, domains, or organizational units, and they enable you to manage security settings for multiple devices from any device joined to the domain. Security settings policies are used as part of your overall security implementation to help secure domain controllers, servers, clients, and other resources in your organization.

Advantage of Security Setting

- User is authenticated in a network or device.
- The defined resources that any user is permitted to access.
- Whether to record a user's or group's actions in the event log.
- Membership of a user in a group.

Event Log

The event logs usually keep a record of services from various sources and then stores them in a single place. Events logs can be of Security, System and Application event. As an incident responder, you should look for multiple sources of log information and should not forget to look at the older log files which may be present in backup systems or volume shadow copies.

When the Event logs are assessed, the Event ID have various field details with them;

| <u>Field</u> | <u>Function</u> |
|---------------|--|
| Log name | Defines the name of the event log |
| Source | The place from where it is generated in the system |
| Event ID | The identification number of the log |
| Level | The seriousness of the log |
| User | The account to which the log is related to |
| Logged | The systems date and time when the event was generated |
| Task Category | It is assigned by the source of log |
| Keywords | Its is used to group or categorise the events |
| Computer | The system on which the log was created |
| Description | It it's the information about the log |

Account Management Events

The Account Management is extremely important and these events can be used to track the maintenance of users, group, and computer objects in Local users and groups, Active Directory.

Account Management events can be used to track a new user account, any password resets, or any new members being added to groups or being deleted from the group.

The account management events can be categorised into different types:

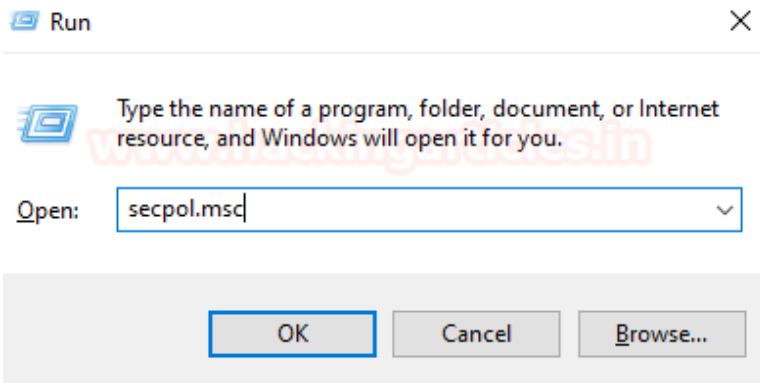
| No. | Task Category |
|-----|-----------------------------|
| 1. | User Account Management |
| 2. | Computer Account Management |
| 3. | Security Group Management |

Events in Windows 10 system

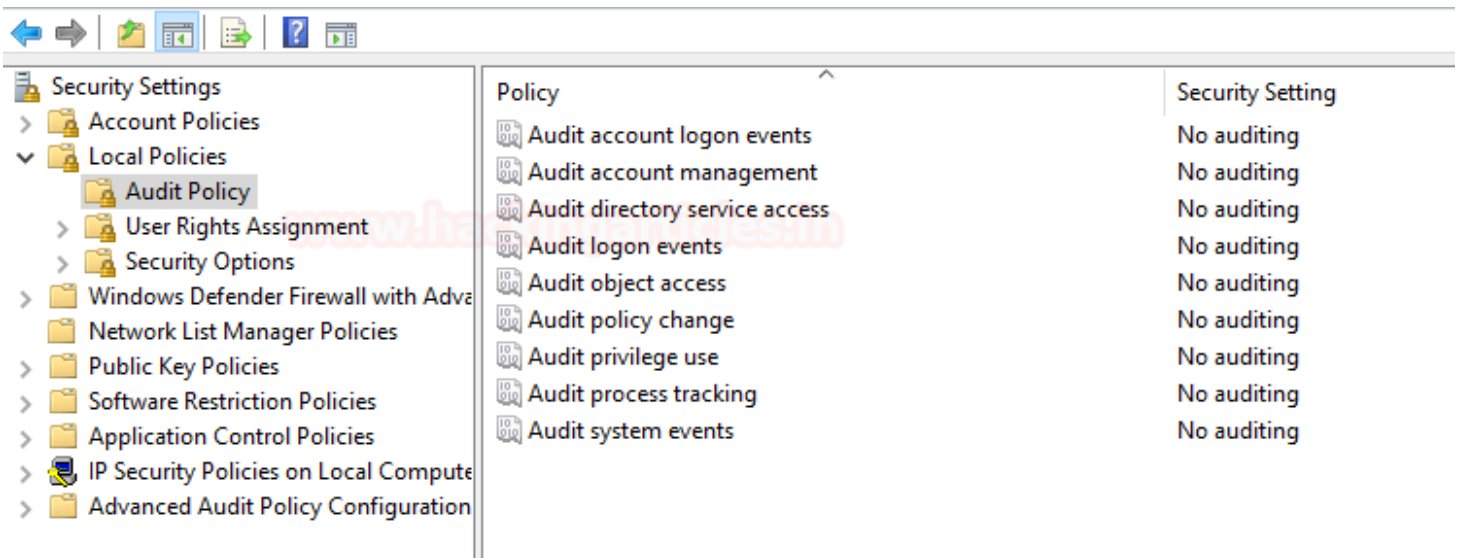
To see how this works, let's get you started with Account Management Events.

To view the security policy and setting, press '**Windows+R**' and type

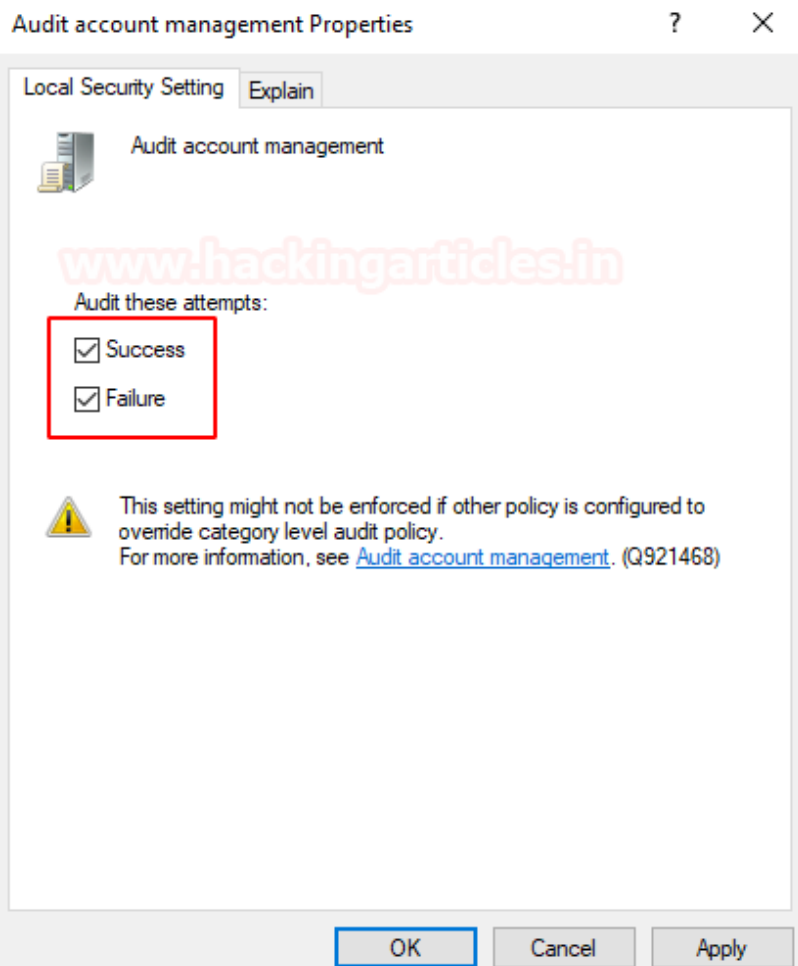
secpol.msc



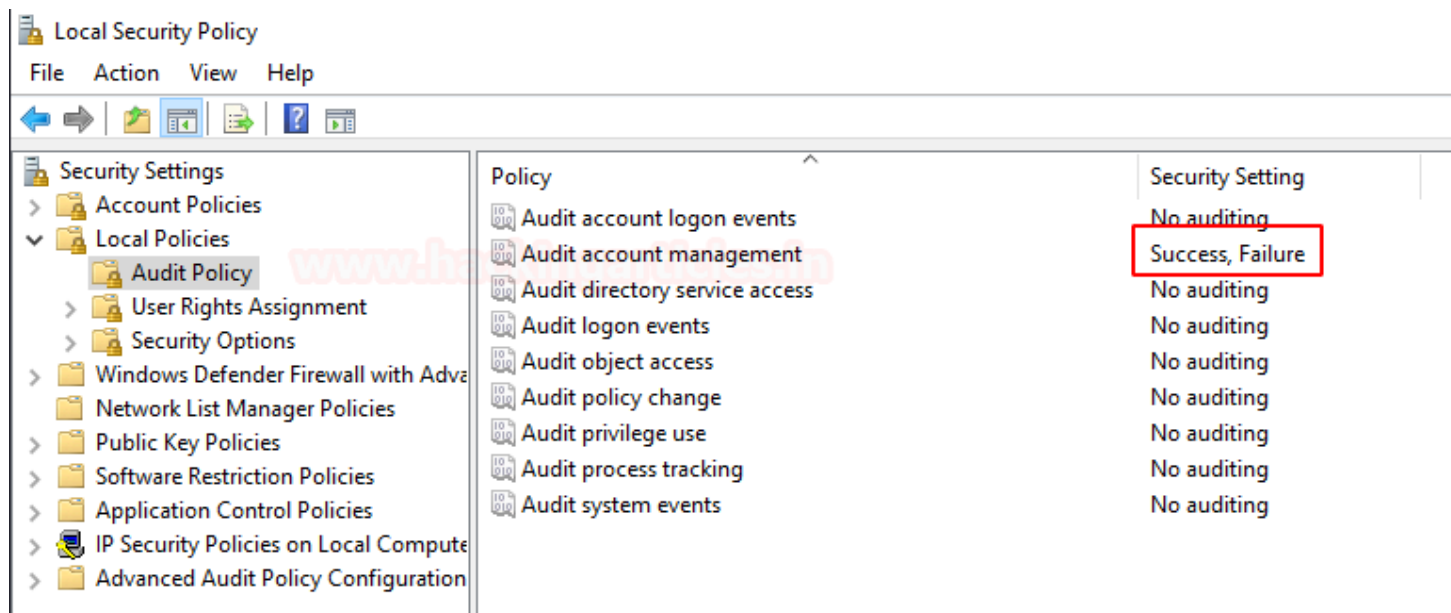
Here you see that in audit policies, there is 'no auditing ' being displayed and to view these event we need to activate them.



When you open the properties of audit account management, check the success and failure attempts and press **ok**.

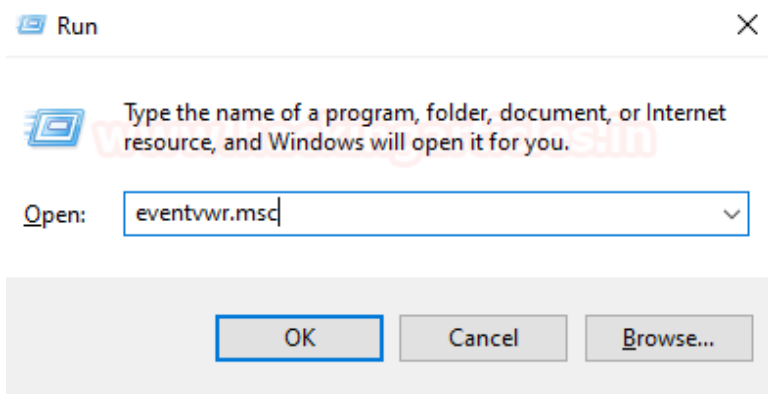


You can see that the security setting has been updated and now the logs for account management are active.



Now to Open Event Viewer, press '**Windows+r**' and type

eventvwr.msc



So, let's check the logs created by these events. Power on your Windows 10 systems.

Event ID 4720

| <u>Event ID</u> | <u>Description</u> |
|-----------------|-----------------------------|
| 4720 | A user account was created. |

Purpose of monitoring this Log

- To check SAM Account name field which could indicate an anomaly
- To keep a check on the logon hours activity of a user account.

To see how this works, open command-prompt, create a new user.

```
net user username /add
```

```
Microsoft Windows [Version 10.0.18362.53]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>net user jeenali /add
The command completed successfully.

C:\Windows\system32>_
```

After you create a new user, you can see below that 4720 event is created and you can also see the account name.

Security Number of events: 226 (!) New events available

| Keywords | Event ID | Task Category | Date and Time |
|---------------|----------|-------------------------|-----------------------|
| Audit Success | 4720 | User Account Management | 8/27/2020 10:40:56 AM |
| Audit Success | 4720 | User Account Management | 8/27/2020 10:49:35 AM |

Event 4720, Microsoft Windows security auditing.

General Details

A user account was created.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x68CE3

New Account:

Security ID: S-1-5-21-725336627-938125827-4009302624-1006
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

Log Name: Security
Source: Microsoft Windows security Logged: 8/27/2020 10:40:56 AM
Event ID: 4720 Task Category: User Account Management
Level: Information Keywords: Audit Success
User: N/A Computer: DESKTOP-TT14AQK
OpCode: Info
More Information: [Event Log Online Help](#)

Event ID 4722

| Event ID | Description |
|--|-----------------------------|
| 4722 | A user account was enabled. |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none"> To keep a note of every changes made on high value domains or local account. | |

After a new user account is enabled, you can see the event 4722 is generated with the account name.

Security Number of events: 226 (!) New events available

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|-------------------------|-----------------------|
| Event ID: 4722 (2) | | | |
| Audit Success | 4722 | User Account Management | 8/27/2020 10:40:56 AM |
| Audit Success | 4722 | User Account Management | 8/27/2020 10:49:35 AM |
| Event ID: 4724 (2) | | | |
| Audit Success | 4724 | User Account Management | 8/27/2020 10:29:13 AM |

Event 4722, Microsoft Windows security auditing.

General Details

A user account was enabled.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x68CE3

Target Account:

Security ID: S-1-5-21-725336627-938125827-4009302624-1006
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

Log Name: Security

Source: Microsoft Windows security Logged: 8/27/2020 10:40:56 AM

Event ID: 4722 Task Category: User Account Management

Level: Information Keywords: Audit Success

User: N/A Computer: DESKTOP-TT14AQK

OpCode: Info

More Information: [Event Log Online Help](#)

Event ID 4724

| Event ID | Description |
|----------|---|
| 4724 | An attempt was made to reset an account's password. |

Purpose of monitoring this Log

- To keep an eye on high value accounts whose passwords should not change.

When the password for a user account was changed, it displays that an attempt to change the password was successful.

Security

Number of events: 226 (!) New events available

| Keywords | Event ID | Task Category | Date and Time |
|---------------|----------|-------------------------|-----------------------|
| Audit Success | 4724 | User Account Management | 8/27/2020 10:29:13 AM |
| Audit Success | 4724 | User Account Management | 8/27/2020 10:29:38 AM |

Event 4724, Microsoft Windows security auditing.

General

Details

An attempt was made to reset an account's password.

Subject:

Security ID:DESKTOP-TT14AQK\raj

Account Name:raj

Account Domain:DESKTOP-TT14AQK\

Logon ID:0x68CE3

Target Account:

Security ID:DESKTOP-TT14AQK\raj

Account Name:raj

Account Domain:DESKTOP-TT14AQK

Log Name:Security

Source:Microsoft Windows security

Event ID:4724

Level:Information

User:N/A

OpCode:Info

More Information:[Event Log Online Help](#)

Logged:8/27/2020 10:29:13 AM

Task Category:User Account Management

Keywords:Audit Success

Computer:DESKTOP-TT14AQK

Event ID 4725

| <u>Event ID</u> | <u>Description</u> |
|---|------------------------------|
| 4725 | A user account was disabled. |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">This is because accounts like critical servers, administrative workstations accounts usually do not change often. | |

To disable a user account using command prompt, you can type

```
net user username /active:no
```

Administrator: Command Prompt

```
Microsoft Windows [Version 10.0.18362.53]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>net user jeenali /active:no
The command completed successfully.

C:\Windows\system32>_
```

When you successfully disabled an account the results in the event viewer are displayed as below.

Security Number of events: 249

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|-------------------------|-----------------------|
| Event ID: 4725 (1) | | | |
| Audit Success | 4725 | User Account Management | 8/27/2020 10:59:42 AM |

Event 4725, Microsoft Windows security auditing.

General Details

A user account was disabled.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Target Account:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

Log Name: Security
Source: Microsoft Windows security
Event ID: 4725
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

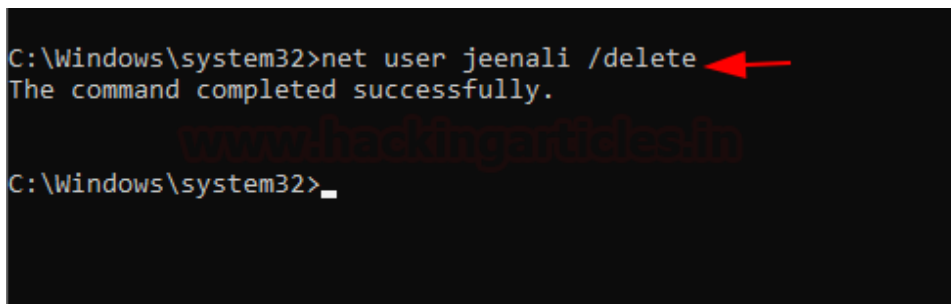
Logged: 8/27/2020 10:59:42 AM
Task Category: User Account Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Event ID 4726

| <u>Event ID</u> | <u>Description</u> |
|---|----------------------------|
| 4726 | A user account was deleted |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">• To monitor Accounts after every changes.• Local accounts are usually not deleted and could hence be a possible malicious activity.• It could be an account that shouldn't have been deleted in the first place. | |

To delete a user account using command prompt, you can type

```
net user username /delete
```



```
C:\Windows\system32>net user jeenali /delete
The command completed successfully.
C:\Windows\system32>
```

A red arrow points to the end of the command `net user jeenali /delete` in the screenshot.

When the account is deleted successfully, this event is created and the user account name is also displayed.

Security Number of events: 8

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|-------------------------|-----------------------|
| Event ID: 4726 (1) | | | |
| Audit Success | 4726 | User Account Management | 8/27/2020 11:01:25 AM |

Event 4726, Microsoft Windows security auditing.

General Details

A user account was deleted.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Target Account:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

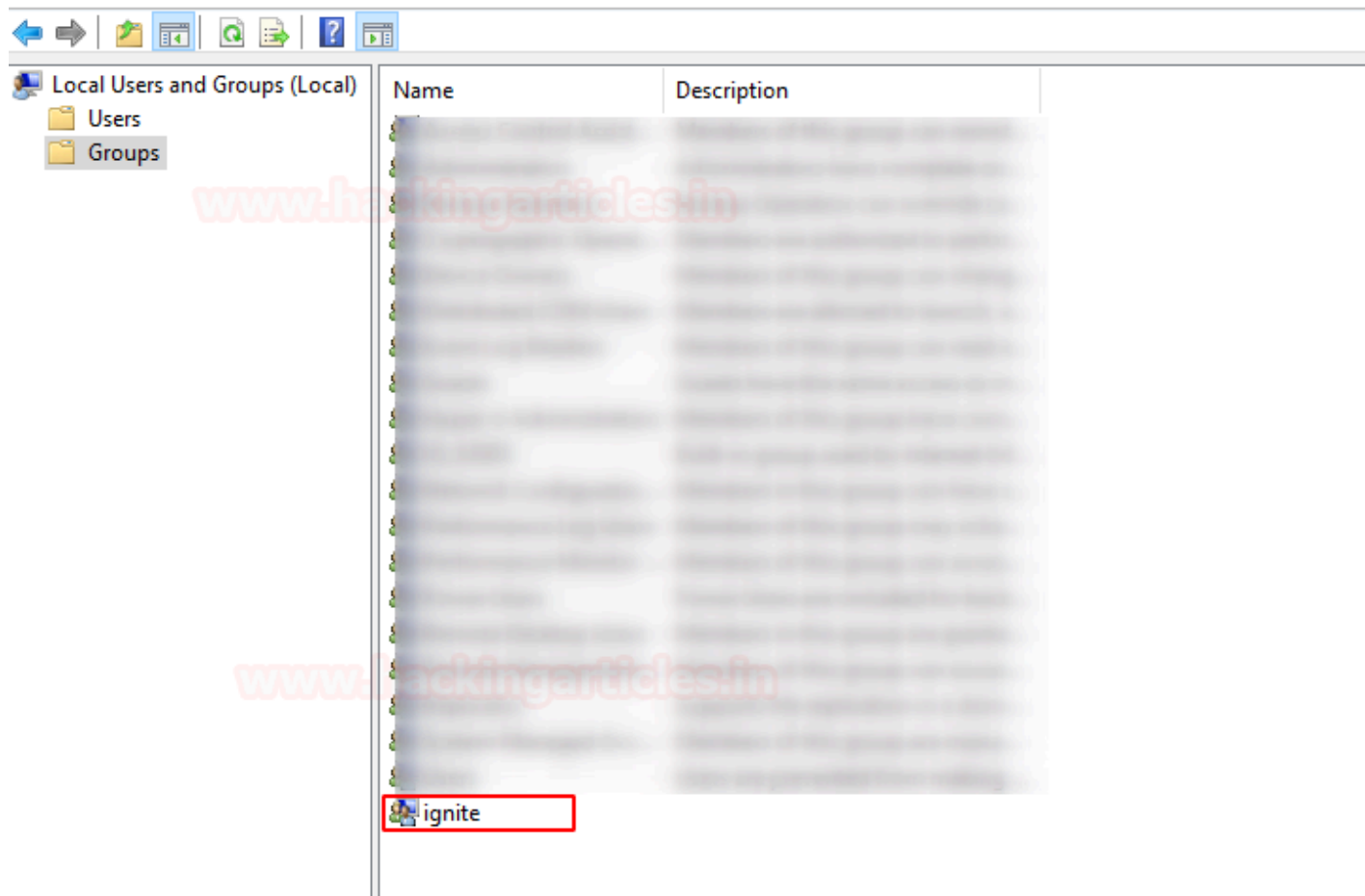
Log Name: Security
Source: Microsoft Windows security
Event ID: 4726
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:01:25 AM
Task Category: User Account Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Event ID 4731

| <u>Event ID</u> | <u>Description</u> |
|---|--|
| 4731 | A security-enabled local group was created |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none"> • To see when and who created a new group. • To prevent any privilege abuse taking place. • To check if the names in an organisation's group doesn't match with the naming conventions. | |

Go to local users and groups and created a new group. Here you see that a new group is created named ignite.



When the new security-enabled local group is created, you can see that this event will be generated in the Event viewer with its name.

Security

Number of events: 10

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|---------------------------|-----------------------|
| Event ID: 4731 (1) | | | |
| Audit Success | 4731 | Security Group Management | 8/27/2020 11:06:23 AM |

Event 4731, Microsoft Windows security auditing.

General

Details

A security-enabled local group was created.

Subject:

Security ID: DESKTOP-TT14AQK\raj

Account Name: raj

Account Domain: DESKTOP-TT14AQK

Logon ID: 0x561CD

New Group:

Security ID: DESKTOP-TT14AQK\ignite

Group Name: ignite

Group Domain: DESKTOP-TT14AQK

Log Name: Security

Source: Microsoft Windows security

Event ID: 4731

Level: Information

User: N/A

OpCode: Info

More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:06:23 AM

Task Category: Security Group Management

Keywords: Audit Success

Computer: DESKTOP-TT14AQK

Event ID 4732

| <u>Event ID</u> | <u>Description</u> |
|---|--|
| 4732 | A member was added to a security-enabled local group |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">• To prevent any privilege abuse taking place.• To check information like user activity, logon times attendance of the user etc.• To detect any malicious activity. | |

To add a new member to the security-enabled local group, type

```
net localgroup groupname username /add
```

```
C:\Windows\system32>net localgroup administrators jeenali /add
The command completed successfully.

C:\Windows\system32>_
```

You see that the new member is added to the group and the user name is also displayed.

Security Number of events: 21

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|---------------------------|-----------------------|
| Event ID: 4732 (2) | | | |
| Audit Success | 4732 | Security Group Management | 8/27/2020 11:10:54 AM |
| Audit Success | 4732 | Security Group Management | 8/27/2020 11:10:45 AM |
| Event ID: 4733 (1) | | | |

Event 4732, Microsoft Windows security auditing.

General Details

A member was added to a security-enabled local group.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Member:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: -

Group:

Log Name: Security
Source: Microsoft Windows security Logged: 8/27/2020 11:10:54 AM
Event ID: 4732 Task Category: Security Group Management
Level: Information Keywords: Audit Success
User: N/A Computer: DESKTOP-TT14AQK
OpCode: Info
More Information: [Event Log Online Help](#)

Event ID 4733

| <u>Event ID</u> | <u>Description</u> |
|--|--|
| 4733 | A member was removed from a security enabled local group |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">• As you might need to check for the use of an account outside of normal working hours.• To keep a check on accounts from another domain, or any external accounts that are not allowed to perform certain actions. | |

As a member is removed from the group, this event is generated.

Security Number of events: 21

| Keywords | Event ID | Task Category | Date and Time |
|---------------|----------|---------------------------|-----------------------|
| Audit Success | 4733 | Security Group Management | 8/27/2020 11:01:25 AM |

Event ID: 4733 (1)

Event 4733, Microsoft Windows security auditing.

General Details

A member was removed from a security-enabled local group.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Member:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: -

Group:

Log Name: Security
Source: Microsoft Windows security
Event ID: 4733
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:01:25 AM
Task Category: Security Group Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Event ID 4734

| Event ID | Description |
|----------|--|
| 4734 | A security-enabled local group was deleted |

Purpose of monitoring this Log

- If a local or domain security group is deleted, to view who had deleted it and when was it deleted.

To delete a security-enabled group using command prompt, you can type,

```
net localgroup groupname /delete
```

```
Microsoft Windows [Version 10.0.18362.53]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Windows\system32>net localgroup ignite /delete
The command completed successfully.

C:\Windows\system32>
```

When the security-enabled local group is deleted, this event is generated and the name of the deleted group is also displayed.

The screenshot displays the Windows Security Event Viewer interface. At the top, a header bar shows 'Security' and 'Number of events: 22'. Below this is a table with columns: 'Keywords', 'Event ID', 'Task Category', and 'Date and Time'. A row for 'Event ID: 4734 (1)' is highlighted with a red box. The details for this event are shown in a pane below, titled 'Event 4734, Microsoft Windows security auditing.'. The 'General' tab is selected, showing the message 'A security-enabled local group was deleted.' in a red-bordered box. Below this, the 'Subject' section lists: Security ID: DESKTOP-TT14AQK\raj, Account Name: raj, Account Domain: DESKTOP-TT14AQK, and Logon ID: 0x561CD. The 'Group' section lists: Security ID: DESKTOP-TT14AQK\ignite, Group Name: ignite (highlighted with a red box), and Group Domain: DESKTOP-TT14AQK. At the bottom, a summary section provides additional details: Log Name: Security, Source: Microsoft Windows security, Logged: 8/27/2020 11:14:42 AM, Event ID: 4734, Task Category: Security Group Management, Level: Information, Keywords: Audit Success, User: N/A, Computer: DESKTOP-TT14AQK, OpCode: Info, and More Information: [Event Log Online Help](#).

| Keywords | Event ID | Task Category | Date and Time |
|---------------|----------|---------------------------|-----------------------|
| Audit Success | 4734 | Security Group Management | 8/27/2020 11:14:42 AM |

Event 4734, Microsoft Windows security auditing.

A security-enabled local group was deleted.

Subject:

- Security ID: DESKTOP-TT14AQK\raj
- Account Name: raj
- Account Domain: DESKTOP-TT14AQK
- Logon ID: 0x561CD

Group:

- Security ID: DESKTOP-TT14AQK\ignite
- Group Name: **ignite**
- Group Domain: DESKTOP-TT14AQK

Log Name: Security

Source: Microsoft Windows security

Logged: 8/27/2020 11:14:42 AM

Event ID: 4734

Task Category: Security Group Management

Level: Information

Keywords: Audit Success

User: N/A

Computer: DESKTOP-TT14AQK

OpCode: Info

More Information: [Event Log Online Help](#)

Event ID 4735

| <u>Event ID</u> | <u>Description</u> |
|---|--|
| 4735 | A security-enabled local group was changed |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none"> For every time a member is added to a local or domain security group. | |

When the security-enabled local group is changed, this event is generated and the name of the group is also displayed.

Security Number of events: 22

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|---------------------------|-----------------------|
| Event ID: 4735 (1) | | | |
| Audit Success | 4735 | Security Group Management | 8/27/2020 11:06:23 AM |

Event 4735, Microsoft Windows security auditing.

General Details

A security-enabled local group was changed.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Group:

Security ID: DESKTOP-TT14AQK\ignite
Group Name: ignite
Group Domain: DESKTOP-TT14AQK

Log Name: Security
Source: Microsoft Windows security
Event ID: 4735
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:06:23 AM
Task Category: Security Group Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Event ID 4738

| <u>Event ID</u> | <u>Description</u> |
|---|----------------------------|
| 4738 | A user account was changed |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">If there is any change in the services list on the Delegation tab, which should be checked. | |

When the user account is changed, this event is displayed.

Security Number of events: 22

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|-------------------------|-----------------------|
| Event ID: 4738 (4) | | | |
| Audit Success | 4738 | User Account Management | 8/27/2020 11:10:45 AM |
| Audit Success | 4738 | User Account Management | 8/27/2020 11:01:18 AM |
| Audit Success | 4738 | User Account Management | 8/27/2020 11:10:45 AM |
| Audit Success | 4738 | User Account Management | 8/27/2020 11:10:45 AM |

Event 4738, Microsoft Windows security auditing.

General Details

A user account was changed.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

Target Account:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

Log Name: Security
Source: Microsoft Windows security
Event ID: 4738
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:10:45 AM
Task Category: User Account Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Event ID 4798

| <u>Event ID</u> | <u>Description</u> |
|--|---|
| 4798 | A user's local group membership was enumerated. Large numbers of these events may be indicative of adversary account enumeration. |
| <u>Purpose of monitoring this Log</u> | |
| <ul style="list-style-type: none">• To check whether the Process Name is not in a standard folder• To check for every enumeration of the group or any access attempt was made | |

When a local user's group is enumerated, you see that this log is created.

Security Number of events: 22

| Keywords | Event ID | Task Category | Date and Time |
|--------------------|----------|-------------------------|-----------------------|
| Event ID: 4798 (5) | | | |
| Audit Success | 4798 | User Account Management | 8/27/2020 11:01:18 AM |
| Audit Success | 4798 | User Account Management | 8/27/2020 11:10:45 AM |
| Audit Success | 4798 | User Account Management | 8/27/2020 11:10:45 AM |
| Audit Success | 4798 | User Account Management | 8/27/2020 11:01:18 AM |

Event 4798, Microsoft Windows security auditing.

General Details

A user's local group membership was enumerated.

Subject:

Security ID: DESKTOP-TT14AQK\raj
Account Name: raj
Account Domain: DESKTOP-TT14AQK
Logon ID: 0x561CD

User:

Security ID: DESKTOP-TT14AQK\jeenali
Account Name: jeenali
Account Domain: DESKTOP-TT14AQK

Log Name: Security
Source: Microsoft Windows security
Event ID: 4798
Level: Information
User: N/A
OpCode: Info
More Information: [Event Log Online Help](#)

Logged: 8/27/2020 11:01:18 AM
Task Category: User Account Management
Keywords: Audit Success
Computer: DESKTOP-TT14AQK

Conclusion: These were the Account management events in Windows 10, to view more on Windows Server 2016, **part 2** is here.