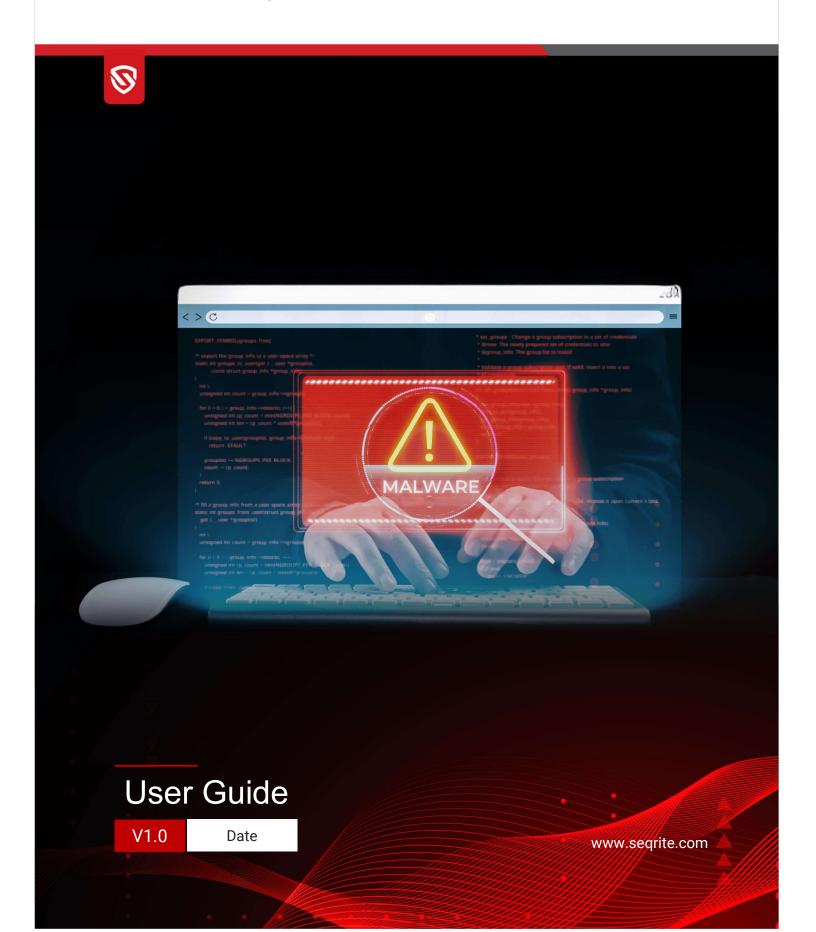
Seqrite Malware Analysis Platform





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Release Date

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1. Introduction

In today's interconnected world, devices frequently communicate over the Internet, leading to frequent data exchanges. This constant flow makes data susceptible to viruses and malware. As data travels through various host computers, it can become vulnerable to infection from malicious programs. To ensure data safety, it is crucial to check whether files are clean or infected. Malicious programs can silently spread and compromise data and legitimate program files without immediate detection.

The Seqrite Malware Analysis Platform is designed to help users submit and analyze suspicious files for potential threats.

How does SEQRITE Malware Analysis Platform Work?

The Seqrite Malware Analysis Platform is an automated system that can be deployed either on customer premises or in the cloud. It allows users to upload suspicious files for scanning and analysis to detect malware and viruses. Users can search for previously analyzed files using checksums like MD5, SHA1, or SHA256, or through various search parameters and keywords. Additionally, users can review the category of URLs before visiting them.

The platform operates with multiple microservices that perform static, dynamic, and manual analyses of the uploaded files. Users can view a consolidated analysis summary to determine whether a file is clean or malicious. After analysis, reports are available in both PDF and JSON formats.

2. Getting Started

To access Segrite Malware Analysis Platform, you require the following:

- Supported versions of browsers
 - o Google Chrome Version 134.0.6998.89
 - o Mozilla Firefox Version 136.0.1
- Users need to have an account on Seqrite Malware Analysis Platform to upload and search file.
- The submitted file size should be less than 128 MB.

3. Accessing SEQRITE Malware Analysis Platform

If you are an existing user, follow the sign in process. If you are a new subscriber, follow the sign-up process.

Signing In

- 1. Enter the URL https://smap.seqrite.com/ in the browser. The Login page is displayed.
- 2. Enter Username and Password. Select the Captcha mark to confirm that you are not a robot.
- 3. Click Sign In.
- 4. The user lands on the Home page, that is Dashboard.

User Roles

In Seqrite Malware Analysis Platform, the user roles assigned to the users can be of the following:

- 1. Organization Analyst
- 2. Organization Admin
- 3. Organization Executive
- 4. Threat Researcher

The following table displays the features available for the users as per the assigned role.

Feature	Org Analyst	Org Admin	Org Executive	Threat Researcher
Dashboard	Yes	Yes	Yes	Yes
File Upload (Single File or Zip)	Yes	Yes	No	No
URL Reputation Lookup	Yes	Yes	Yes	Yes
Advanced Free Text Search	Yes	Yes	Yes	Yes
Download Report	Yes	Yes	Yes	Yes
Add Tags	Yes	Yes	No	Yes
Notifications	Yes	Yes	Yes	Yes
User Management	No	Yes	No	No
Manual Analysis	No	No	No	Yes

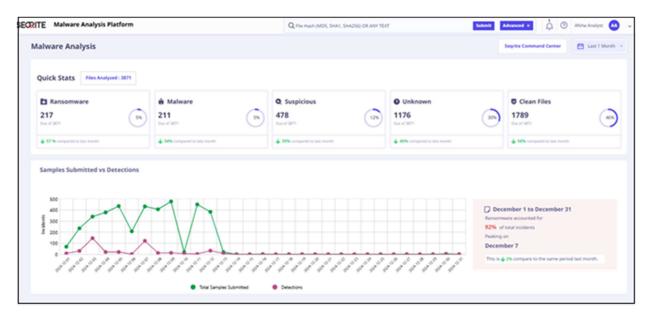
5. Dashboard

Post login, the dashboard is the default landing page for all the users. On the dashboard the following default metrics are provided:

- A. Segrite Malware Analysis Platform (SMAP) Metrics
- B. Command Center

A. Seqrite Malware Analysis Platform (SMAP) Metrics

Seqrite Malware Analysis Platform metrics are used to evaluate and classify malicious samples. They help to understand malware behavior, detect threats, and improve security.



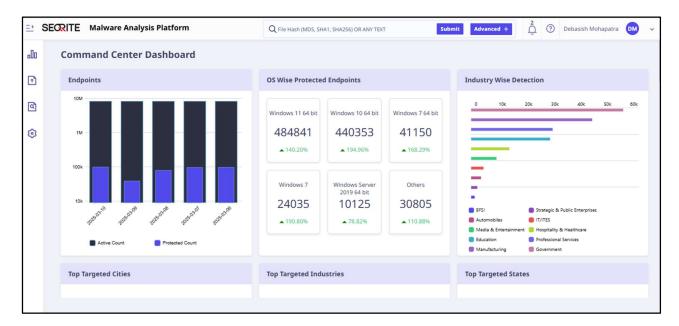
The dashboard shows the following SMAP metrics:

Metrics	Description
Quick statistics of analyzed file	It shows the bifurcation of analyzed files.
Samples Submitted us Detection	It shows the total number of files submitted and
Samples Submitted vs Detection	detection.
Top malware categories	It shows the top malware categories along with
Top maiware categories	their respective count.
	It shows the top malicious files, sample submitted
Top Malicious File Types	to analyze, number of detections, and detection
	percentage.
Submission Methods and Top	It shows the number of manual and auto
sources contributing to detection	submission of files, and top sources contributing
sources contributing to detection	to detection.

Metrics	Description
	It shows the top malware families along with their
Top Malware Families Detected	name, category, detection rate and detection
	date.
Trending Tags in Malware Analysis	It shows the top trending tags.

B. Command Center

Command Center projects insights from Seqrite's telemetry, which is gathered from our 10 million endpoints.



Accessing Command Center

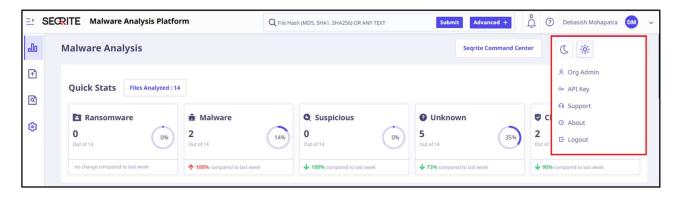
To access and view the command center, click the **Seqrite Command Center** on top right of the dashboard. The following are the key metrics on the command center:

Metrics	Description
Endpoints (Total active and	It shows the number of devices where Quick Heal antivirus
Protected endpoints)	is installed and among them how many endpoints were
Frotected enapoints)	recently protected from Threats.
OS wise protected end points	It shows operating system wise protected end points
Os wise protected end points	numbers.
Top targeted states/cities	It shows the top 10 targeted cities and states by the
Top targeted states/cities	number of detections.
Top targeted industries	It shows the top 10 target industries by number of
Top targeted industries	detections.

Metrics	Description
Top Attacking Remote IPs	It shows the number of malicious active remote lps.
Top Ransomware families	It shows the top 10 active ransomware families.
Top Vulnerabilities	It shows the top 10 detected vulnerabilities.
Threat Map	It is a visual representation of cyber threats across India.

User Profile

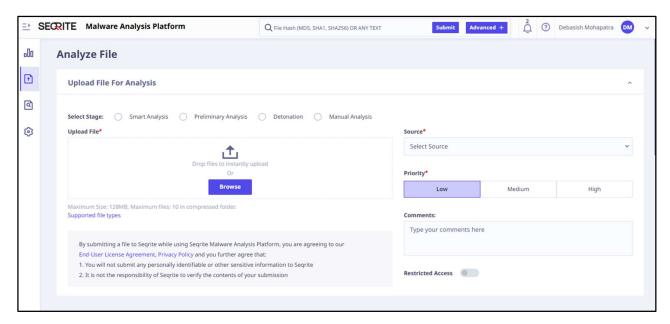
The User Profile section on the upper-right corner of the dashboard shows the name of the registered user. When you click the logged-in username, the options displayed are, screen appearance that is Dark Theme and Light Theme, Role, API Key, Support, list of the open-source tools/library and licenses under About, and Logout.



6. Analyze File

For analyzing files, click Analyze File on the left pane. This page displays the following options:

- Upload file for analysis.
- File analysis report that is historical uploads in tabular format with sorting options. Ability to search through the upload history using filters such as days, status, and source of submission.
- Advanced Global Search using free text search and predefined filters.



Upload File for Analysis

You can upload a single file or ZIP file, which needs to be scanned by Seqrite Malware Analysis Platform and then view the generated analysis report. The file size must be less than 128 MB. Threats if any, are detected by various scanners and highlighted in the generated consolidated report.

File Types Supported: Windows executables, Microsoft office documents, DLL files, PDF documents, HTML files, PHP scripts, CPL files, Visual Basic Scripts, ZIP files, JAVA RAR, Python Files etc.

Note: Files (including zip files) with password will not be analyzed.

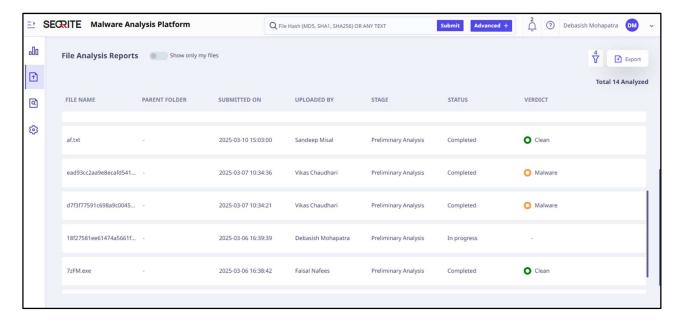
To upload and submit the file for analysis, follow these steps:

- 1. Log in to the Seqrite Malware Analysis Platform and click the **Analyze File** on left pane.
- 2. On the Analyze File page, navigate to Upload File for Analysis and click Browse.
- 3. Select the file that you want to submit for analysis.

- 4. Select **Stage** that is Preliminary Analysis, Detonation or Manual Analysis.
- 5. Select any predefined source from the **Source** list or select **Others**.
- 6. Select **Restricted Access**. You can restrict file access to users other than admin, if the file is of a sensitive nature.
- 7. Select Priority that is High, Medium or Low depending upon how fast you want to analyze the file.
- 8. Add **Comments** for reference and click **Analyze**. Once the file is submitted for analysis, the progress and status will be displayed in the list along with the submitted time stamp.
- 9. Click **View** to view the analysis of the submitted file. See Analysis Report for more information.

File Analysis Report (Upload History)

Seqrite Malware Analysis Platform displays the upload history for submitted Files. It gives detailed information about uploaded files and helps to determine if it is malicious. You can filter the details by the Stage, Status, Verdict, Upload Period.



Stage

You can filter the history table by stage that is, Preliminary Analysis, Detonation, or Manual Analysis.

Status

You can filter the history table by Status. The Status Information for the uploaded files can be one of the following:

Sr. No.	Status	Description	
1.	All	To view all the uploaded files.	
2.	In queue	Waiting to be processed.	
3.	Failed	Analysis has failed.	
4.	In Progress	File analysis in progress.	
5.	Completed	Analysis is completed on time.	

The history table displays the status of the files being analyzed along with the following details:

- File Name
- Parent File Name
- Submitted On
- Uploaded By
- Stage
- Status: In Progress, In Queue, Completed
- Verdict

You can view the report for the uploaded file by clicking View.

Verdict

You can filter the history table by Verdict such as Clean, Malware, Ransomware, Suspicious.

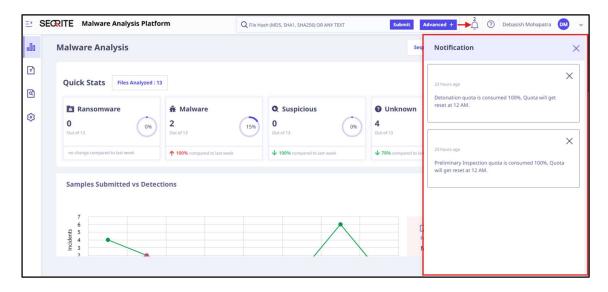
Upload Period

The details of the uploaded files can be viewed for the following intervals:

- 1 Day
- 7 Days
- 1 Month
- 3 Months

7. Notifications

Notifications generated by Seqrite Malware Analysis Platform are displayed by clicking the Notification icon (bell icon) on the top right.



Notifications inform you about all the actions taken on the Seqrite Malware Analysis Platform. The number on the notification icon shows the count of newly received notifications.

On clicking the notification icon, a notification box appears. The notification dialog box shows a few of the newly received notifications with the description and time when the notification was received.

Viewing Notifications

To view a notification, follow these steps:

• Log in to the Seqrite Malware Analysis Platform and click the notification icon (bell icon) on the top right.

A list of notifications appears.

Types of Notifications

I. Analysis notification

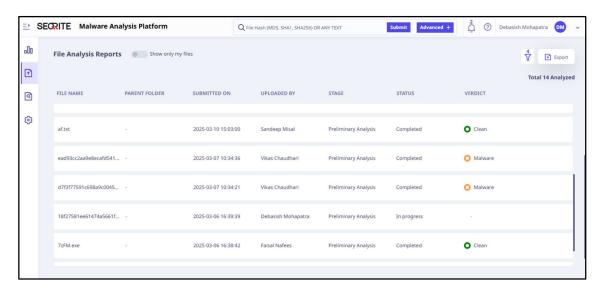
After the user uploads a file for analysis, they will receive this notification updating them about the status of the uploaded file.

II. Quota usage notification

The admin will receive this notification informing them about their file upload quota usage. It provides details about their current consumption.

8. Analysis Report

After you upload a file for analysis through the Search tab on the left pane, an analysis report is generated for the uploaded file and searches hashes that are already present in the database. Various tabs in the report display the corresponding analysis data.



The following table provides the file details displayed on the analysis report page.

Item	Description
File Name	Displays the submitted file name.
Hash Displays the submitted file hash.	
File Type	Displays the file type.
Verdict	Displays analysis verdict such as Clean, Malware, Ransomware, Suspicious
Malware Category Displays the malware category.	
Malware Family Displays the malware family.	
Submission Time	Displays the time stamp when the file was submitted for analysis.
File Size Displays the uploaded file size.	
Restrict Access	Public or Private
Tags	Displays the system tags.

Add Tags

Detonation layer may automatically assign Tags during analysis. Threat Researchers has the provision to add Tags while conducting Manual Analysis. Additionally, Analyst or Threat researchers can add the following categories during any stage of analysis:

Affected OS/Platforms

- Attack Type
- Attack Vector
- Indicators of compromise
- Targeted Attacks
- TTPs

Analyst or threat researchers can add tags under these categories by clicking the **Manage** Tags >Select Category>Enter tag name> +Add Tag>Save.

Note: It is mandatory to select the category while adding a tag name.

The added tags are visible under **Added Tags**. These tags help future researchers identify the file by these tagged attributes. Tags can also be removed just by click cross **X** sign next to the tag name and such removed tags are visible under **Removed Tags**.

Analysis Tabs

The visibility of some tabs is based on the availability of the data. The ability to add comments depends on your access permissions. You can view the following analysis tabs.

Summary

The submitted file or hash is scanned, and the summary is displayed. The displayed details may vary depending on the submitted file type. The Summery shows the following details:

- Submitted By
- First submission date
- Last submission dates
- Modified date
- Verified
- Verified date
- Machine type

Static Attribute

Malware analysis is incomplete without the analysis of files attributes. Threat researchers use various tools to collect attributes of submitted files. Seqrite Malware Analysis Platform collects and processes the data from these tools and generates the analysis report for the submitted sample.

The static attributes show the following details for the file:

Basic Properties

- MD5, SHA-1 values
- Type of files and file properties.
- Section information (e.g., Entropy value) of the file
- File version number, timestamp information, and digital signature details including certificate chains
- File content in string format
- File content in Hex format

Detonation Detail

Detonation detail will be available when the user has an option for Detonation analysis.

The following table shows the sections and detonation details displayed on the page.

Sections	Description	
Verdict	The final assessment of the sample, typically classified as Clean, Unknown, suspicious, Malware or Ransomware based on the combined results of the analysis.	
Sample Overview	A high-level summary of the sample, including its file type, size, hash values (MD5, SHA-1, SHA-256), submission date, and any initial observations.	
Verdicts from Various Subsystems of Detonation Layer	Individual verdicts from different analysis engines or layers within the sandbox, such as static analysis, behavioral analysis, and network analysis.	
Behavior Activities	Detailed description of the sample's behavior during execution, including actions like file manipulation, process creation, network activity, etc.	
Process Tree	A hierarchical representation of all processes created or modified by the sample, showing parent-child relationships and the flow of execution.	
Process Created	List of processes that were initiated by the sample during execution, along with their associated metadata (e.g., process ID, command line arguments).	
Files Created	Information on any files that the sample created or modified, including file paths, names, and types, along with their hash values.	
Registry Created	Details of any Windows registry entries created or modified by the sample, including paths and associated values.	
Registry Keys Sets	A list of specific registry keys that were modified or set by the sample, potentially indicating persistence mechanisms or configuration changes.	
DNS Requests	A record of all DNS queries made by the sample, including domain names, query types, and resolved IP addresses.	

Sections	Description
IP Connections	Information on outbound or inbound network connections initiated by the sample, including IP addresses, ports, and protocols.
Screenshots	Captured screenshots of the virtual environment during the sample's execution, providing visual evidence of the sample's activity.

Manual Analysis

Manual Analysis detail will be available when the file is uploaded for Manual analysis.

Additional options

The following table describes the options that are available on the analysis report page.

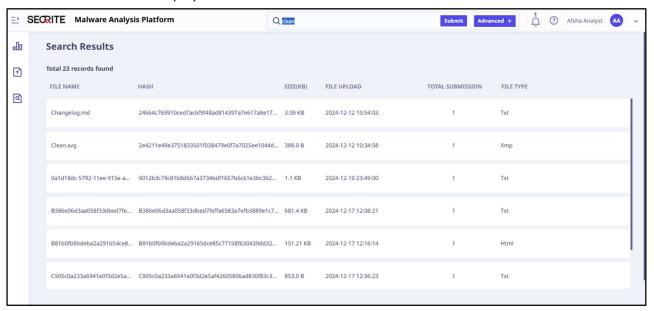
Sr. No.	Icon Name	Description	Images
1	Download	You can download reports in PDF, and JSON as required.	\perp
2	Send to Detonation	You can send samples to the detonation stage for detailed analysis if sample was previously submitted only for Preliminary Analysis.	Send to Detonation
3	Send to Manual Analysis	You can send samples for manual analysis if not satisfied with the detailed Detonation analysis report.	Send to Manual Analysis

Note: Large reports may take time to download.

9. Free Text and Advanced Search

You can search using any report content of a file. All the reports pertaining to this search will be fetched and displayed on the table.

If a file hash submitted does not exist in the Seqrite Malware Analysis Platform, then **No Record available** will be displayed.



Advanced Search

Additionally, you can further refine your search by adding more search criteria, by selecting one or more filter options to search for the file or hash in the Seqrite Malware Analysis Platform database. The following table gives detail about the filters:

Features	Description
All	Use the following filters as required:
	Total Submission
	• File Size
	• Tag
	• Others
	• File Type
File Type	Search the file for 32-bit or 64-bit machine type.
	 File type includes Executable, Excel, Word, Power point, PDF, Image, and Compressed.
	 Machine types include Executable, Excel, Word, Power point, PDF, Image, and Compressed.
File Size (Bytes)	File Size equal to
	File Size Greater than
	File Size Less than

Features	Description
Submission Date & Time	You can search for the file in the database, by specifying the date range (From & To).
Tag	System Tags: System-generated tags.
	User Tags: User generated customized tags.
Verdict	You can search the analyzed files by their respective verdicts, that are, • Clean • Unknown • Suspicious • Malware • Ransomware
Malware Family	You can search by Malware families.
Malware Category	You can search by Malware Categories.
Severity	You can search by Analyzed file's severity that is, No Threat Low Medium High Critical

Applying Filters

To apply filters, follow these steps:

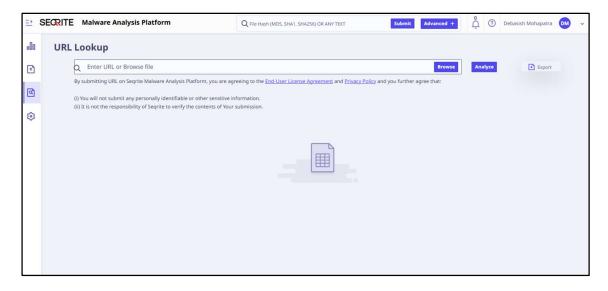
- 1. Click Advanced+.
- 2. On the Advanced Filter dialog box, select one or more filters as required, enter the required value in the text box and click **Apply**.

For example:

- i. If you click File Size, further conditions are displayed as follows: File Size equal to, File Size Greater than, File Size Less than.
- ii. Select the required condition and enter the corresponding value in the text box.
- iii. Click Add+.
- 3. The selected filter with value is displayed in the SELECTED FILTERS section. For example: File Size is 10 MB, File Type is Word.
- 4. Select further filters with the conditions. Refer to the table below for available filters.
- Click Apply.
 The report is displayed with related parameters that are, file name, hash, size, file upload, total submission and file type.
- 6. Click the view > icon to view the analysis report.

10. URL Lookup

URL Lookup is a process of examining a URL to determine its safety by scanning for threats like malware, phishing, or suspicious activity. It helps to identify and block harmful URLs.



To analyze the URL, follow these steps:

- 1. On the left pane, select **URL Lookup**.
- 2. Enter the URL and click **Analyze**.

The submitted URL is checked against the Seqrite's database, and the corresponding categories are displayed. If the URL is safe, the verdict **Clean** is displayed else, it is marked as **Malicious** or **Unknown**.

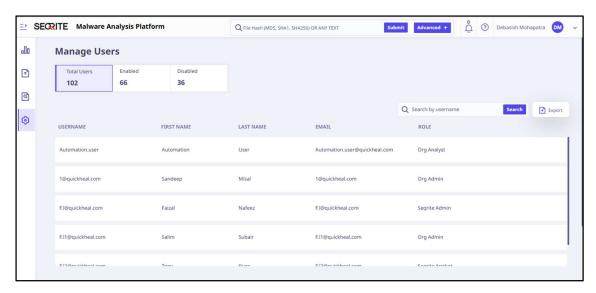
Note: This is an Add-on service.

11. Settings

The settings allow admin users to manage, view the usage quota of users and activity log of all users conducted on Seqrite Malware Analysis Platform.

Users

Admin can view user details, enable or disable the user, change user role, search user and can download the users list as a CSV file.



User Details

You can view user details such as personal details and login information. Along with this, you can enable or disable the user and change the user role.

Enable/Disable the User

To enable/disable the user, follow these steps:

- 1. Select the user and click >(View).
- 2. In the **ACTION** section switch the key to enable or disable the user.

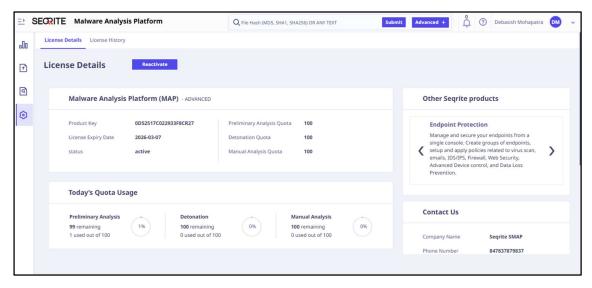
Change the User Role

To change the user role, follow these steps:

- 1. Select the user and click >(View).
- 2. In the **ACTION** section, select the role from the list and then click **Save**.

License

This page is visible only to the admin user. On this page, admin can check the status of Seqrite Malware Analysis license. The license details page gives details such as, license type, quota usage, past quota usage, and company details.



License Details

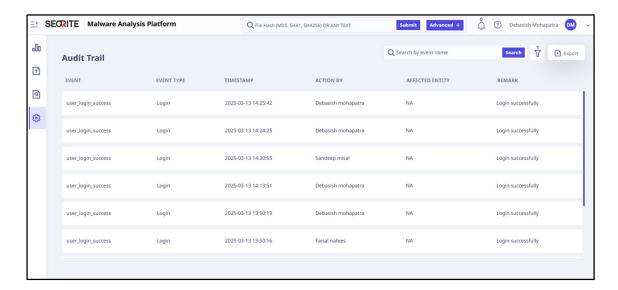
The license information includes the following details:

Title	Description
License Expiry Date	Displays the license expiry date of Seqrite Malware Analysis
	Platform.
Status	Displays the status of the license that is, Active or Inactive.
Preliminary Analysis	Displays the allocated quota for the Preliminary Analysis stage.
Quota	
Detonation Quota	Displays the allocated quota for the Detonation stage.
Manual Analysis	Displays the allocated quota for the Manual Analysis stage.
Quota	
Today's Quota Usage	Displays the quota consumption for Preliminary Analysis,
	Detonation, and Manual Analysis for the day.
Past Quota Usage	Displays the details of quota usage that are, quota type, total
	allocation, quota used, quota remaining, and quota usage in
	percentage.

Audit Trail

This page gives the activity log of all the user activities that are conducted on the Seqrite Malware Analysis Platform such as User Log in / Log out, User Addition / Deletion, Role

assignment or other operation activities such as file upload for analysis. You can download these logs into a CSV file and can filter and export the activity log with the help of a time filter.



12. Support

Head Office Contact Details

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