



# EDR Deployment Guide

EDR 1.3.0

[www.seqrite.com](http://www.seqrite.com)

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## Overview

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The Endpoint Detection and Response (EDR) is a platform deployed on an organization's own infrastructure rather than on a cloud-based environment. It is a system designed to protect the endpoints from the network from potential cyber threats. EDR helps detect and respond to the threats that may evade the traditional antivirus and other security solutions deployed at the endpoint.

## Audience

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This guide is helpful for Seqrite Administrators and SOC Managers using EPP 8.3 with EDR edition.

## Prerequisites

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- EPP Server installed (Refer this link for more details on [Installing EPP Server](#)).
- EPP server with EDR license activated.
- Update Manager must be installed. (Refer this link for more details on [Update Manager Guide](#).)

## System requirements for EDR

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- Operating System: **Ubuntu** 24.04 LTS server edition
- VM requirements:
  - Master (1 VM) - 4 vCPU / 8GB RAM / 200GB Disk
  - Worker (1 VM) - 16 vCPU / 64 GB RAM / 500GB Disk

**NOTE:**

- 100 GB of free disk space on /var (both on Master & Worker nodes)
  - 30 GB of free disk space on /home on Master node
- As a part of best practice, all VMs must have a clean OS snapshot.
- Data Retention: 30 days
- High Availability: No

## System requirements for EDR with required Endpoints

EDR	Master node			Worker node(s)			
Operating Sys	Ubuntu 24.04 LTS			Ubuntu 24.04 LTS			
Endpoints	CPU	Memory	Disk (SSD)	Worker(s)	CPU	Memory	Disk (SSD)
< =20	4 Core 2.60GHz or above	8 GB	200 GB	Worker 1	12 Core 2.60GHz or above	42 GB	500 GB
<1000	4 Core 2.60GHz or above	8 GB	500 GB	Worker 1	40 Core 2.60GHz or above	96 GB	3.7 TB
1000 - 2000	4 Core 2.60GHz or above	8 GB	500 GB	Worker 1	40 Core 2.60GHz or above	96 GB	7 TB
2000-4000	4 Core 2.60GHz or above	8 GB	500 GB	Worker 1	48 Core 2.60GHz or above	96 GB	12 TB
4000-5000	4 Core 2.60GHz or above	8 GB	500 GB	Worker 1	48 Core 2.60GHz or above	112 GB	15 TB
5000-10000	8 Core 2.60GHz or above	16 Gb	500 GB	Worker 1	64 Core 2.60GHz or above	128 GB	30TB
50000	8 Core 2.60GHz or above	16 GB	0.5 TB	Worker 1	72 Core 2.60GHz or above	144 GB	112 TB

				Worker 2	72 Core 2.60GHz or above	144 GB	112 TB
				Worker 3	72 Core 2.60GHz or above	144 GB	112 TB
				Worker 4	72 Core 2.60GHz or above	144 GB	11 TB

## System requirements for EDR Update Manager

CPU	Memory	Disk	Supported Platforms
2 Core	4 GB	50 GB	<ul style="list-style-type: none"> <li>Linux Mint 19.2</li> <li>Linux Mint 20 64bit</li> <li>Ubuntu 22</li> <li>openSUSE 42.3 64bit</li> <li>openSUSE 15.2 64bit</li> <li>Ubuntu 20.04 64bit</li> <li>Red Hat Enterprise Linux 9.1</li> <li>BOSS 6 32bit</li> <li>BOSS 8 64bit</li> <li>Rocky Linux</li> </ul>

## Supported platforms for EDR Clients

Windows (64 bit)	Linux (64 bit)	Mac OS
Windows 10	Red Hat Enterprise Linux (RHEL) 8.1	Mac OS Monterey
Windows 8.1	Red Hat Enterprise Linux (RHEL) 9.1	macOS Catalina
Windows server 2019	Ubuntu 20.04	macOS Monterey 12.5 M2
Windows server 2016	Ubuntu 22.10	macOS 14.1.2 (Sonoma) M3
Windows server 2022	openSUSE 15.1	macOS Mojave 10.14.6
Windows Server 2012 R2 Datacenter	Linux Mint 20 Ulyana	
Windows Server 2012 Datacenter	Red Hat Enterprise Linux (RHEL) 8.2	
Windows 11	Rocky Linux	
	Ubuntu 17.04 64bit	
	Linux Mint 20 64bit	
	CentOS 8 64bit	
	CentOS 8.2 64bit	
	Fedora 32 64bit	
	BOSS 8 64bit	

# Getting Started

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## Prerequisites

- Supported operating system: Ubuntu 24.04 LTS (Server Edition)
- User privileges: Sudo access is required
- Network connectivity: Internet or intranet connectivity must be established between the EPP, master, and worker nodes
- Minimum hardware requirements: Ensure that all systems meet the defined minimum hardware specifications
- Kernel version consistency: The kernel version must be identical on both the master and worker systems

**Note:** The recommended screen resolution to view Seqrite EDR Portal is below 1440 X 900.

## Deployment Overview

The deployment process is designed to be simple and guided. It includes the following steps:

1. Download the installation package.
2. Run the installation shell script.
3. Provide required inputs through the CLI prompt (for example, master node IP, worker node details, passwords).
4. The installer will automatically configure and deploy all necessary components based on the provided.

**Note:** The installation script may take approximately one hour to complete execution, depending on system performance and network conditions.



## Installation Steps

The following steps will guide you through the installation process to set up the Seqrite EDR platform on your environment.

1. Log in or switch to a user account that has sudo privileges.
2. Run the following command to download the installation **.sh** file provided by Seqrite:  
`wget https://dlupdate.quickheal.com/builds/seqrite/83/ope/en/build/Seqrite\_EDR\_Installer\_1\_3\_0.sh`
3. Run the following command to make the script executable:  
`chmod +x ./Seqrite_EDR_Installer_1_3_0.sh`
4. Run the following command to execute the installer script.  
`sudo ./Seqrite_EDR_Installer_1_3_0.sh -c`
5. When prompted, enter the necessary configuration details. These may include:
  - EPP FQDN or IP address
  - EPP License Key
  - EDR Master node FQDN or IP, Username, Password

For example:

**IP ADDRESS:** 192.168.x.x,

**FQDN:** master.ope.com

- EDR Worker node FQDN or IP, Username, Password

For example:

**IP ADDRESS:** 192.168.x.x,

**FQDN:** master.ope.com

6. In case of FQDN, provide the path as input on CLI, where the **.key** and **.crt** files are present.

```
qhuser@XDRAPTPLV067T:~$ sudo ./Seqrite_EDR_Installer_1_3_0.sh -c
Unpacking JRE ...
Starting Installer ...
Seqrite EDR On-Premise: Server Details

EPP FQDN or IP address []: epp.abc.com
License Key []: 12345678901234567890

EDR Master Node FQDN or IP address []: edr.abc.com
EDR Master Node username (with sudo privileges) []: master
EDR Master Node Password:

EDR Worker Node FQDN or IP address []: edrw.abc.com
EDR Worker Node username (with sudo privileges) []: worker
EDR Worker Node Password:

Seqrite EDR On-Premise: Certificate Details

Provide the path to key file (*.key): /home/qhuser/certs/ope.key
Provide the path to certificate file (*.pem, *.crt): /home/qhuser/certs/ope.crt

Installation in progress ...
Extracting files ...
```

7. In case of IP address, refer this image:

```
qhuser@XDRDBTPLV001T:~$ sudo ./Seqrite_EDR_Installer_1_3_0.sh -c
[sudo] password for qhuser:
Sorry, try again.
[sudo] password for qhuser:
Unpacking JRE ...
Starting Installer ...
Seqrite EDR On-Premise: Server Details

EPP FQDN or IP address []: 172.28.99.207
License Key []: 00000000000000000000000000000000

EDR Master Node FQDN or IP address []: 172.28.99.207
EDR Master Node username (with sudo privileges) []: qhuser
EDR Master Node Password:

EDR Worker Node FQDN or IP address []: 172.28.99.208
EDR Worker Node username (with sudo privileges) []: qhuser
EDR Worker Node Password:

Installation in progress ...
Extracting files ...
```

This message confirms that the script has run successfully, and all components have been installed.

```
Seqrite EDR On-Premise
Setup has finished installing Seqrite EDR On-Premise on your computer.
Finishing installation ...
master@OPEAPTPLV0105T:~$ _
```

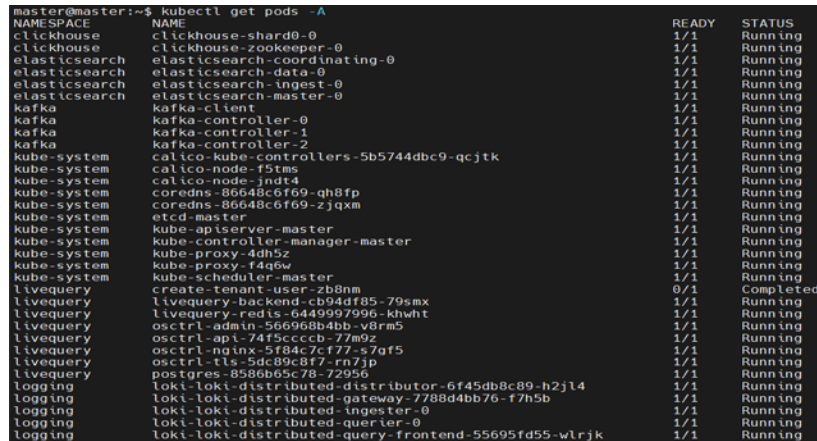
## Installation Verification

After the installation is completed, verify that the deployment was successful by performing the following steps:

1. Run the following command to ensure all pods are in a running state:

```
`kubectl get pods -A` -
```

This command displays the status of all pods.



NAME	READY	STATUS
clickhouse-clickhouse-shard0-0	1/1	Running
clickhouse-clickhouse-zookeeper-0	1/1	Running
elasticsearch-elasticsearch-coordinating-0	1/1	Running
elasticsearch-elasticsearch-data-0	1/1	Running
elasticsearch-elasticsearch-ingest-0	1/1	Running
elasticsearch-elasticsearch-master-0	1/1	Running
kafka-kafka-client	1/1	Running
kafka-kafka-controller-0	1/1	Running
kafka-kafka-controller-1	1/1	Running
kafka-kafka-controller-2	1/1	Running
kube-system-calico-kube-controllers-5b5744dbc9-qcjtK	1/1	Running
kube-system-calico-node-f5tms	1/1	Running
kube-system-calico-node-jndt4	1/1	Running
kube-system-coredns-86648c6f69-qh8fp	1/1	Running
kube-system-coredns-86648c6f69-zjqxm	1/1	Running
kube-system-etcD-master	1/1	Running
kube-system-kube-apiserver-master	1/1	Running
kube-system-kube-controller-manager-master	1/1	Running
kube-system-kube-proxy-4dh5z	1/1	Running
kube-system-kube-proxy-f466v	1/1	Running
kube-system-kube-scheduler-master	1/1	Running
livequery-create-tenant-user-zb8nm	0/1	Completed
livequery-livequery-backend-cb94df85-79smx	1/1	Running
livequery-livequery-redis-644997996-khwht	1/1	Running
livequery-osctrl-admin-566968b4bb-v8rm5	1/1	Running
livequery-osctrl-api-74f5cccb-77m9z	1/1	Running
livequery-osctrl-nginx-5f84c7cf77-s7qf5	1/1	Running
livequery-osctrl-tls-5d689c8f7-rn7jp	1/1	Running
livequery-postgres-8586b65c78-72956	1/1	Running
logging-loki-loki-distributed-distributor-6f45db8c89-h2jl4	1/1	Running
logging-loki-loki-distributed-gateway-7788d4bb76-f7h5b	1/1	Running
logging-loki-loki-distributed-ingester-0	1/1	Running
logging-loki-loki-distributed-querier-0	1/1	Running
logging-loki-loki-distributed-query-frontend-55695fd55-wlrjk	1/1	Running

[Screenshot: Successful pod status]

For example: `kubectl logs ope-misp-engine-7dc49b6f6c-jns8k -n service`

This command retrieves the logs of the ope-misp-engine pod within the service namespace. Use it to troubleshoot or confirm that services are running as expected.

2. Open a web browser and navigate to the Seqrite EDR interface using the configured IP address or hostname (FQDN).

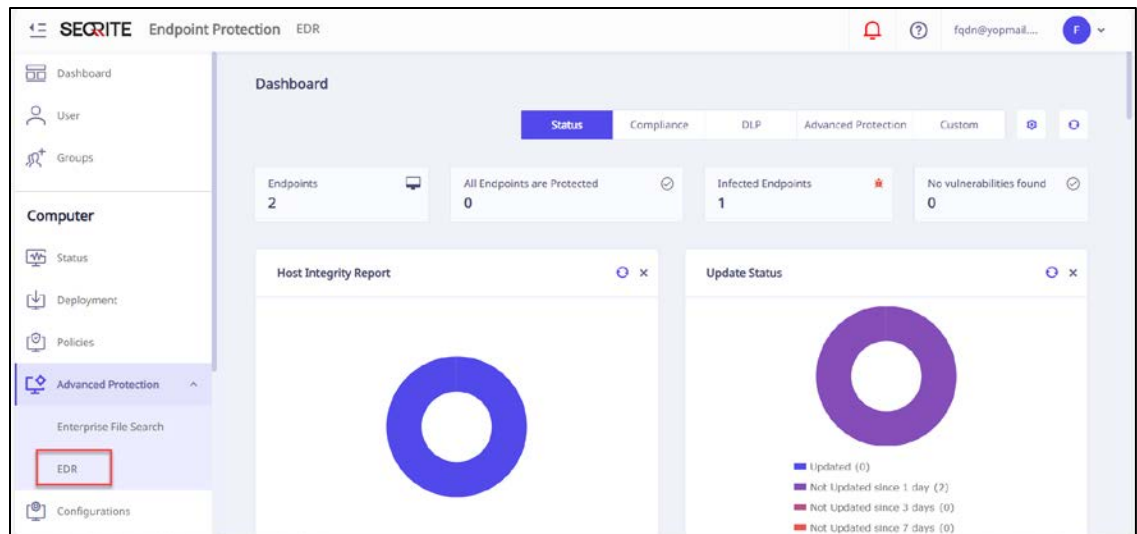
Syntax: `https://<IP_or_FQDN>/eps/login`

For example:

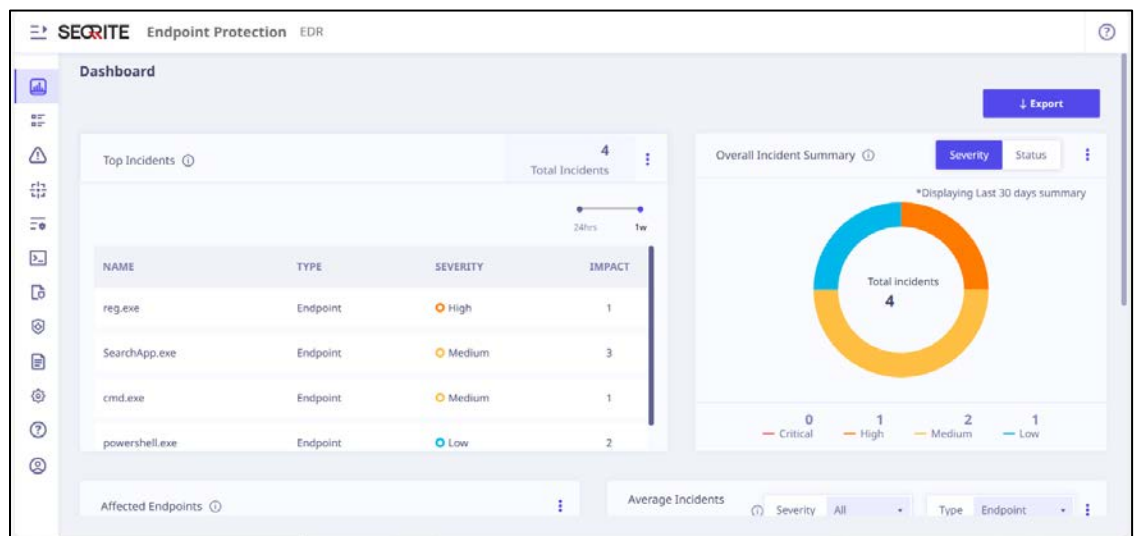
- <https://192.168.x.x/eps/login>,
- <https://epp.abc.com/eps/login>

3. Log in to the platform:

- a. First, log in to the **EPP**.



- b. After successful authentication, click **Advanced Protection** > **EDR** from the left panel to be automatically redirected to the **EDR** dashboard.



[Screenshot: Seqrite EDR login page]

## Troubleshooting

If you encounter issues during installation, follow these steps:

1. **Verify the operating system version**

Ensure that the system is running **Ubuntu 24.04 LTS**. Other versions are not supported.

2. **Validate system resources**

Make sure that there is adequate **disk space** and **available memory** to support the installation process.

3. **Review installation logs**

If the installation fails,

- a. check the log file at **/var/qh/ope-data-fresh/app.log** for detailed error messages.
- b. Open a separate terminal window and run the following command:

`tail -f /var/qh/ope-data-fresh/app.log`

```
master@master:~$ tail -1000f /var/qh/ope-data-fresh/app.log
2025-09-02 12:17:59 - INFO - OPE Deployment: START
2025-09-02 12:17:59 - INFO - Interactive mode: False, Post Docker Setup Mode: False
2025-09-02 12:17:59 - INFO - OPE Deployment: Initial Setup: START
2025-09-02 12:17:59 - INFO - Logging all environment variables: START
2025-09-02 12:17:59 - INFO - SHELL: /bin/bash
2025-09-02 12:17:59 - INFO - SUDO_GID: 1001
2025-09-02 12:17:59 - INFO - EPS_PRODUCT_ID: 
2025-09-02 12:17:59 - INFO - TF_CLI_CONFIG_FILE: /var/qh/ope-data-fresh/components/tf_cache/.terraformrc
2025-09-02 12:17:59 - INFO - SUDO_COMMAND: ./ope_linux-amd64_1_3_0.sh -c
2025-09-02 12:17:59 - INFO - SUDO_USER: master
2025-09-02 12:17:59 - INFO - MASTER_NODE_IP: master.ope.com
2025-09-02 12:17:59 - INFO - PWD: /var/qh/ope-data-fresh
2025-09-02 12:17:59 - INFO - LOGNAME: root
2025-09-02 12:17:59 - INFO - MASTER_NODE_USER: master
2025-09-02 12:17:59 - INFO - TF_PLUGIN_CACHE_DIR: /var/qh/ope-data-fresh/components/tf_cache_dev/
2025-09-02 12:17:59 - INFO - HOME: /root
2025-09-02 12:17:59 - INFO - SHLIB_PATH: /home/master/ope_linux-amd64_1_3_0.sh.2028.dir/user:
2025-09-02 12:17:59 - INFO - KEY_FILEPATH: /home/master/certs/ope.key
2025-09-02 12:17:59 - INFO - LANG: en_US.UTF-8
2025-09-02 12:17:59 - INFO - DYLD_LIBRARY_PATH: /home/master/ope_linux-amd64_1_3_0.sh.2028.dir/user:
2025-09-02 12:17:59 - INFO - LS_COLORS: rs=0:di=01;34:ln=01;36:mh=00:pi=40;33:so=01;35:do=01;35:bd=40;33;01:cd=40;33;01:
```

## Post installation update set-up

Users can configure OPE updates post-installation and access the EDR updates file/folders from the specified locations.

- EDR files/folders restored at the predefined location.
- Update Manager:  
<https://dlupdate.quickheal.com/builds/seqrite/cai/suum/installer/eng/SUUMunix64.zip>

## Configuring updates through predefined location

Users will automatically get the updated EDR files/folders from the predefined location. To automatically fetch updates, user needs to modify the following path:

- `/var/qh/ope-data-fresh/deploy/data/updater/updater.ini`

Let's assume the files at the predefined location: `/home/qhuser/seqrite-update-manager-download`

- Modify: `/var/qh/ope-data-fresh/deploy/data/updater/updater.ini` the file using the above-mentioned path.
- In the below [checksum] section, the LocalPath and LocalChecksumJson should not be modified.
- UseNewCopy = true (suggests that the EDR should regularly check the folder at NewCopyPath for new-or-updated files)

**Note:** Please do not modify any other entries on the updater.ini file.

- If Update-Manager is installed on the same machine where EDR is also installed, then only modify the **NewCopyPath** and **NewCopyChecksumJson** in the **updater.ini** located at the following path:
  - `/var/qh/ope-data-fresh/deploy/data/updater/updater.ini`

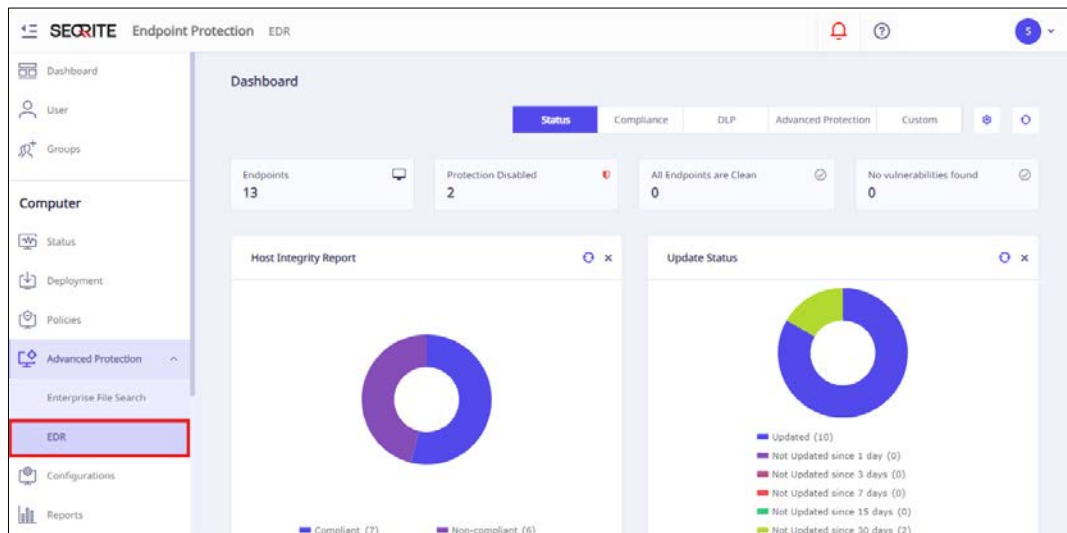
```
[checksum]
NewCopyPath = <http://<ip-of-update-manager>:8080/edr
NewCopyChecksumJson = http://<ip-of-update-manager>:8080/file-server
```

## Steps to access EDR

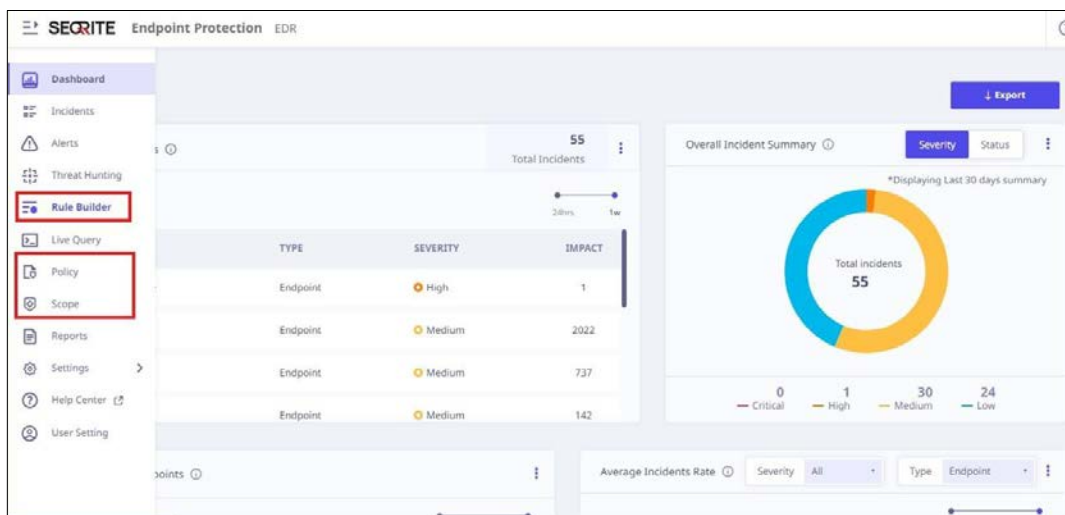
After the OPE set up, users can now access EDR by login to EPP. To begin follow these steps,

1. Login to EPP console page.
2. Create one user with SOC Manager role in EPP.
3. Logout.

4. Login again to EPP with the newly created user.
5. Access EDR Edition located under “Advanced Protection” tab on the EPP console page. The following screen appears.



6. EDR User Interface opens in a new tab verify “Rule Builder”, “Policy”, and “Scope” sections those created EPP are synced with the EDR Edition.



## Uninstalling EDR

To uninstall the EDR server, use the command below and provide the appropriate inputs when prompted.

```
sudo /var/qh/uninstall -c -Dinstall4j.log=/tmp/ope-uninstall.log
```

**Note:** Execute the above command from any location except /var/qh.

```
master@master:~$ sudo /var/qh/uninstall -c -Dinstall4j.log=/tmp/ope-uninstall.log
[sudo] password for master:
Are you sure you want to completely remove Seqrite EDR On-Premise and all of its components?
Yes [y, Enter], No [n]
y
```