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Endpoint Threat Detection and Response (EDR)

The SanerNow EDR tool helps detect current and on-going attacks and includes commands to respond to threats.

SanerNow supports STIX/TAXII, OpenIOC and Yara feeds and can use threat Intelligence from other sources to detect Indicators of Compromise (IoC). You can execute queries based on attack symptoms to investigate abnormal behavior or detect an on-going attack on the network.

If an attack is in progress, you can take various mitigation actions, including blocking the execution of an application or executable, killing a process, cleaning registry entries, terminating a network connection, quarantining files, cleaning up startup folders and temp folders. Vulnerabilities can be easily linked to an exploit or an attack to apply a more permanent remediation strategy of rolling out security patches.

SanerNow allows you to add and manage threat feeds. By default, SanerNow has a default threat feed supplied by SecPod. Threat feeds must be in the JSON format. Registry and file checks, and md5sum checks are performed for threat feeds.

To access the EDR tool:

1. Logon to SanerNow using your SanerNow credentials.
2. Select an account to manage by clicking the icon at the upper left corner of the window. A dashboard with the summary view of the account is displayed.
3. Click the SanerNow icon on the header. Click the EDR icon. The EDR dashboard is displayed.

Indicators of Attacks

This pane shows any ongoing malware attacks in progress. Click the expand button to run a query or to find out details about the attack.
Indicators of Compromise

This pane shows potential threats that can evolve into an attack if left unchecked. By default, the SecPod Threat feed is included with the EDR Tool. Click the Expand icon to enable the threat feed and to evaluate or edit it.

To add a threat feed

If you have purchased a threat feed and would like to add the feed source in SanerNow, contact SecPod.

To discover and evaluate threats
By default, threat evaluation is done during every scan. However, you can choose to manually evaluate the threats.

1. Make sure the Enable Feed toggle is in the On position with the Feed Source you want to use.  
2. Click Evaluate under the Evaluate Threat column. The threats are displayed below in the Evaluated Threats table, along with the name and family of the threat, the risk rating of the threat, time and date of evaluation, and the number of hosts that are affected by the threat. 
3. Click Info to view details about the threat. 
   - Click More to drill down into the details such as the system details, and the probe details such as the file path, file name, hive, program name, etc. Click the back arrow to return to the details page. 
   - Click the value under Hosts to see the names of the affected devices. Click the name of a host to view the vulnerability, compliance, and hardware and software details of that particular device in a new page. 
   - Click Submit to submit the details to the Saner agents. 
   - Click Edit to modify the query you want to submit to the agents.

Build your own Detection and Response

SanerNow helps you write custom detection scripts or scripts to respond to threats through its query module.  

A query is a request for information from a database or live data from endpoints where the SanerNow agent is installed. SanerNow supports natural language-based queries, related to processes, services, users, registry, network, and device configurations on the endpoint. The SanerNow platform’s metadata model makes it easy to search using unstructured natural language-based queries. SanerNow is fully compliant with well-established standards, such as SCAP, STIX/TAXII,

Query results are fetched in microseconds to help make quick decisions around endpoint activities. Complex queries can be created, or multiple queries can be cascaded with AND and OR combinations. The scalable architecture of SanerNow allows responses to IoCs in seconds without impacting the network or systems.

Queries are categorized into two types:
1. Default Queries - The SanerNow solution provides default queries that can fetch information such as anti-virus information, hosts that have disabled the firewall, hosts that have disabled Bit locker protection, etc.
2. Custom Queries - Users can create custom queries.

To create a custom query, click the Detection or Response button. A query contains two options:
- Add Rule, to select supported probes. Multiple rules can be selected with AND or OR operations.
- Add Group, to join rules based on conditions. Multiple rules can be joined into one group.

The Run option displays the query results fetched from the database. The Edit and Delete buttons allow you to edit or delete the queries.
To create a custom query for threat detection

1. Click Detection in the Build your own detection and response pane. The query building page is displayed, with a drag and drop library of probes.
2. Filter the probes according to the operating system for which you want to write a query.
3. For example, to check for Locky using multiple rules, drag and drop Registry Key Effective Rights probes into the Action Box pane as shown in the example below. Drag and drop Hive and Key as the parameters. Add a file and the file path.

4. Select the devices and groups you want to query. Click Deploy. The Deploy Package dialog is displayed.

- Specify a package name, the number of times you want to run the query, and the intervals at which you want to run it.
- Specify when you want to run the query – immediately, daily, weekly, monthly or a specific date. Specify the time, and the corresponding days of the week, days of the month or a date.
- Assign a severity of low, medium, high or critical to the query. Click Create.

The figure displays a query with multiple rules to check for Locky malware. Once the query is created or updated it
displays the result in real-time.

After the task is created, SanerNow searches in the local database of system reports. To retrieve the report click Submit. Clicking Submit sends the queries to the Saner Agent to fetch the current data.

**Detection Summary**

This pane shows a list of the query, the affected hosts, and the risk severity.

- Click the value under Hosts to see the names of the affected devices. Click the name of a host to view the hardware and software details of that particular device, and the vulnerability, compliance, patch, endpoint details in a new page. Go to the Endpoint Threat Detection tab to view all the EDR details related to the host.
- Click the **Query name** to drill down into the details such as the system details, and the probe details such as the file path, file name, hive, program name, etc. Click the back arrow to return to the details page.
  - Click Submit to submit the query to the Saner agents.
  - Click Edit to modify the query you want to submit to the agents.
- Click the Expand icon to modify the query, run it, or delete the scheduled detection job.
Response Summary

This pane shows a list of all the response scripts written to prevent, stop, or cleanup malware, the date on which it was run, the description or purpose for which it was created, and the status of the job. Click the Expand icon to delete the scheduled response job, to edit the description or view the code.

Setting Alerts for Endpoint Detection and Response

To act proactively when there is an indication of threat, or to act quickly to minimize the spread of an attack in progress, you can set alerts.

To Set Alerts for Endpoint Detection and Response
1. Click Alerts > Endpoint Detection and Response.
2. Set the subscription status to On.
3. Specify an email address to which you want the alerts sent.
4. Specify when you want the alerts sent:
   - Threats (Indicators of Compromise) - You can choose to receive alerts for all threats levels, critical threats, high and critical threats, and medium, high and critical threats.
   - IoA (Indicators of Attacks) – You can choose to receive alerts for all indicators of attack, critical attacks, high and critical attacks, or medium, high and critical attacks.
   - Query – You can choose to receive alerts for all queries that are executed on the endpoints, or for custom queries. If you select custom, you must specify the custom values for which you wish to receive alerts.
   - Response fields – You can choose to receive alerts when actions on the endpoints pass, fail, or for a custom condition or for all responses.
5. Click Update to complete.

Endpoint Detection and Response Reports

Endpoint Detection and Response Reports provide a bird’s eye-view of the overall threats and the monitored hosts, the specific indicators of attack and compromise, and a summary of the detection and response queries.

To Generate the Endpoint Detection and Response Report

- Click Reports > Endpoint Detection and Response Report.
To export the report to a PDF
Click Export > PDF

To export the report and send it via email:
1. Click Export > Email.
2. Specify the email addresses.

To Back Up Reports

The backup settings under Reports allow IT administrators to obtain a backup report showing the history of threats. The backup time should be scheduled. The backup report can be scheduled to run automatically daily or weekly.

To configure backup settings for reports:
1. Click Backup.
2. Specify the frequency of backup in the **How Often** drop-down. You can back up reports daily, or weekly. If you choose weekly, you can specify the days.
3. Specify the number of days that a backup should be maintained in the **Keep Only the Latest** box. Files older than the specified value will be deleted. You can maintain backups for a maximum of 30 days.
4. Specify the **Backup Time**, that is, the time when SanerNow will create an archive of the report. Specify **Email** addresses.
5. Click **Save**.
About Us

SecPod Technologies creates cutting edge products to ensure endpoint security. Founded in 2008 and headquartered in Bangalore with operations in USA, the company provides computer security software for proactively managing risks and threats to endpoint computers.

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