

Integration Guide

Integrating Microsoft Defender with EventTracker

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Abstract

This guide provides instructions to retrieve the **Microsoft Defender** events via the Azure Event Hub and then configure the **Azure function app** to forward the logs to EventTracker. After EventTracker receives the logs from the Event Hub, the reports, dashboard, alerts, and saved searches can be configured.

Scope

The configuration details in this guide are consistent with EventTracker version 9.3 and later and Microsoft Defender for Endpoint.

Audience

The Administrators who are assigned the task to monitor the **Microsoft Defender** events using EventTracker.



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1. Overview

Microsoft 365 Defender is a unified pre- and post-breach enterprise defense suite that natively coordinates detection, prevention, investigation, and response across endpoints, identities, email, and applications to provide integrated protection against sophisticated attacks.

EventTracker helps to monitor events from the Microsoft Defender for Endpoint. Its dashboard and reports will help you track, alert information, and alert evidence which in turn help to detect file-less attacks, backdoor drops, and virus/malware.

2. Prerequisites

- An Azure Subscription and a user who is a global administrator.
- Azure Resource group.
- EventTracker Manager public IP address.
- Download Azure integration package from <u>ETS_Microsoft_Defender_Forwarder.zip</u>

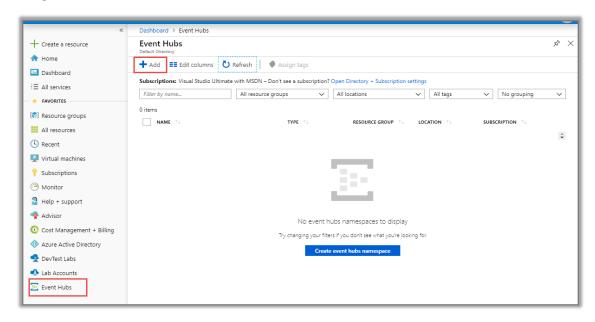
3. Configuring Event hub to Forward Logs to EventTracker

Microsoft Defender can be integrated with EventTracker by streaming the logs to the Azure Event Hub, and from Azure Event Hub to EventTracker.

3.1 Creating an Event Hubs namespace and an Event Hub

The Event Hubs namespace contains one or more Event Hubs. The configured Azure services create Event Hub in these namespaces to store activities and diagnostics logs.

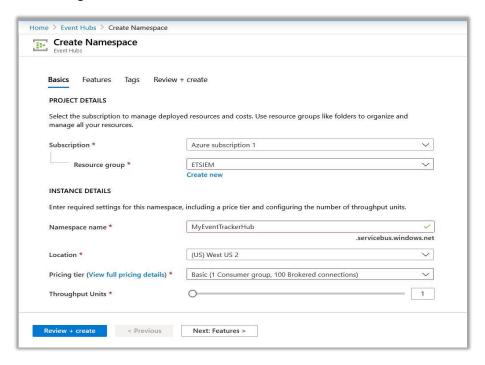
- 1. Login to portal.azure.com
- 2. Navigate to All services > Event Hubs > Add.



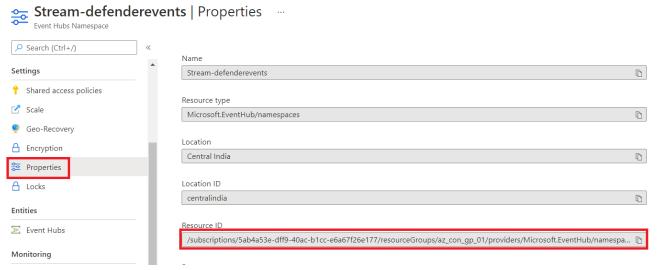


3. Create a namespace. Provide a **Namespace Name**, e.g. **MyEventTrackerHub**, Resource group, and any other settings -> **Review + Create**.

Recommendation: Create and choose Resource group Name with "EventTracker". It would give a better picture of the billing for the services.

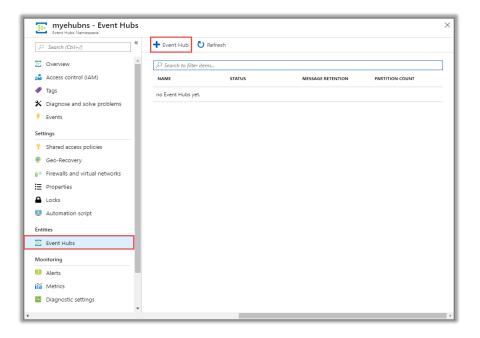


4. On the Event Hubs namespace page, Click **Properties** under **Settings** on the left panel and copy the **Resource ID** value, Which will be used in <u>further</u> steps (4.1step 3)

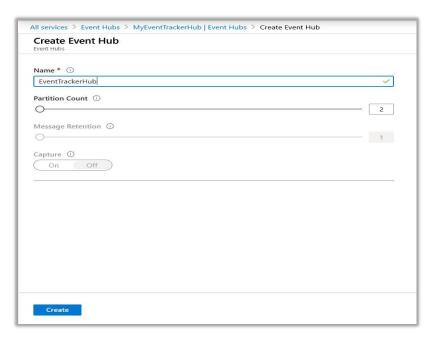


On the Event Hubs namespace page, select Event Hubs on the left menu. At the top of the window, click + Event Hub.





6. Type a name for your Event Hub and provide the EventHub name, partition count based on your environment, **Copy** the Event Hub name which will be used in <u>further</u> steps (4.1 Step 3), and then click **Create**.

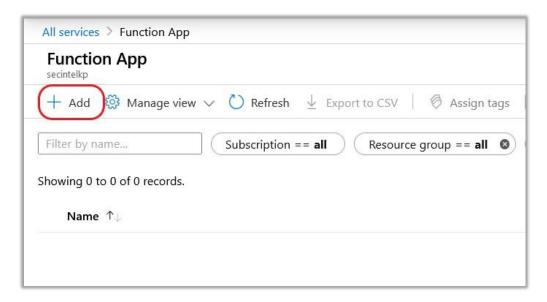


3.2 Configuring Azure Function app to forward data to EventTracker

Azure Functions is a solution for easily running small pieces of code, or **functions**, in the cloud. For more details on the function app overview and cost, refer to the link.

1. Navigate to **All Services > Function App** and click the **+ Add** button.





- 2. In the configure function app window,
 - In **Project Details**, select the desired subscription and **Resource Group**.
 - In Instance Details:
 - o Provide a function app name, like FunctionEventTracker.
 - o Select Code in Publish option.
 - o In Runtime stack, select PowerShell Core.
 - Select the appropriate region.

Recommendation: Create and choose Resource group Name with "EventTracker". It would give a better picture of the billing for the services.

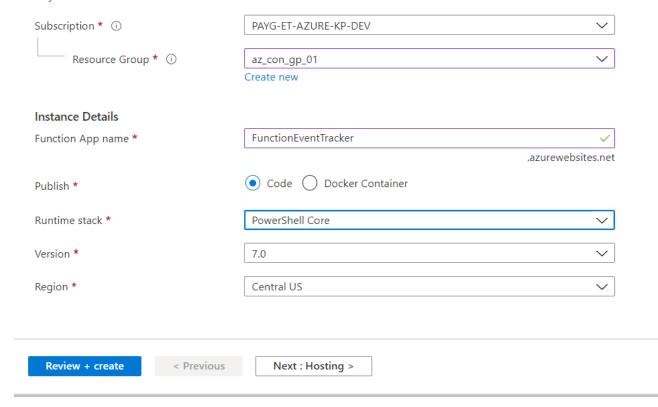


Create Function App

Create a function app, which lets you group functions as a logical unit for easier management, deployment and sharing of resources. Functions lets you execute your code in a serverless environment without having to first create a VM or publish a web application.

Project Details

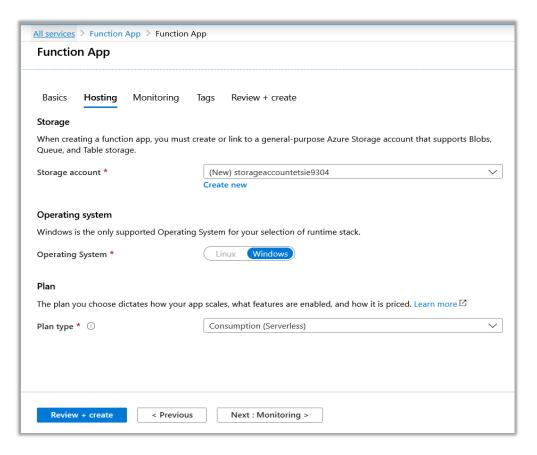
Select a subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.



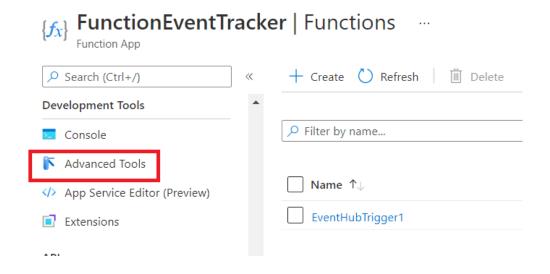
3. Click Next: Hosting.

- Under Storage Section, select your storage account.
- Under the Operating system, select Windows.
- Under Plan, choose a plan of your choice.



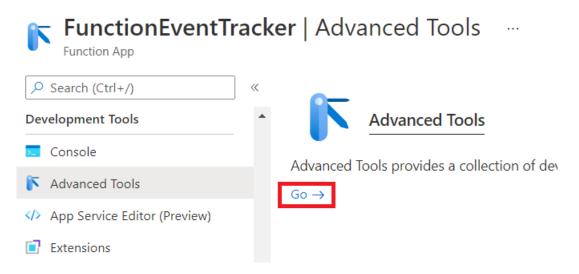


- 4. Click Review + Create.
- 5. After the **Function** app is created, navigate to All services > Function App > FunctionEventTracker to do further configuration and click on Advanced **tools** under **Development** Tools.



6. Click **Go** and provide Azure credentials.

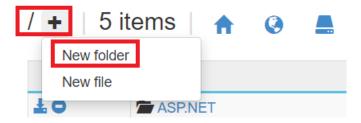




7. A new browser window opens. Select **PowerShell** from **Debug console** menu.



8. Click on + and click on **New folder** provide a folder name such as **ETS_Microsoft_Defender_FunctionApp**.



9. Click on folder which was created on last step



10. Copy the Base path as shown below, which will be used in the future step (step 21)

(Example path: - C:\home\ETS_Microsoft_Defender_FunctionApp)



```
... / ETS_Microsoft_Defender_FunctionApp +
```

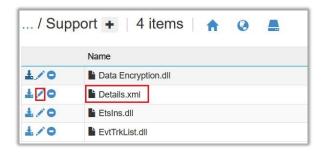
```
Kudu Remote Execution Console
Type 'exit' then hit 'enter' to get a new powershell process.
Type 'cls' to clear the console

PS C:\home>
cd "C:\home\ETS_Microsoft_Defender_FunctionApp"
PS C:\home\ETS_Microsoft_Defender_FunctionApp>
```

11. Drag and drop the **Support** folder (as received in the integration package) to create a folder. A new **Support** folder is added.



12. Navigate to the **Support/** folder and click on the **Edit** button for the **Details.xml** file.



- 13. Here,
 - In line number 9, mgr_name, provide the EventTracker Manager hostname.
 - In line no. 10, mgr_port, enter the EventTracker Manager port number, e.g., 14505.
 - In line number 11, mgr_ip, provide the EventTracker Manager public IP address.
 - In line number 13, **org_name**, provide your organization name and org_name can only contain A-Z, a-z, 0-9, and Under score(_).

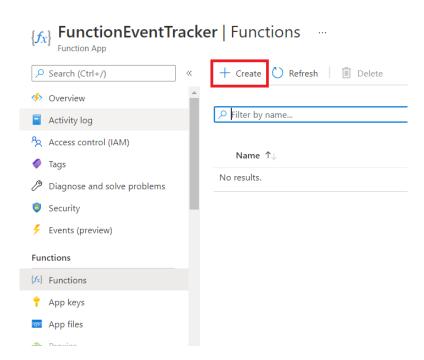


```
<Objs version="1.1.0.1"
         xmlns="http://schemas.microsoft.com/powershell/2004/04">
         <Obj Refid="0">
             <TN RefId="0">
                 \verb| <T> System.Management.Automation.PSCustomObject </T>| \\
                 <T>System.Object</T>
             </TN>
             <MS>
                 <<s N="mgr_name">ET.CONTOSO.LOCAL</>> <!-- Replace with EventTracker manager name. e.g., ET.CONTOSO.LOCAL -->
                 <S N="mgr port">14505</s> <!-- Replace with EventTracker manager port. e.g., 14505 -->
                 << N="mgr IP">198.17.23.198</>
< !-- Replace with EventTracker manager public IP address. e.g., 198.17.23.198 -->
                 <S N="sys_ip">127.0.0.1
                 << N="org_name">EventTracker</s> <!-- Replace with Organization Name. e.g., EventTracker -->
14
             </MS>
         </0bi>
     </0bjs>
```

- 14. Click Save.
- 15. Come back to the Function APP tab (navigate to All services > Function App > FunctionEventTracker) to do further configuration and click **Functions** under Functions.

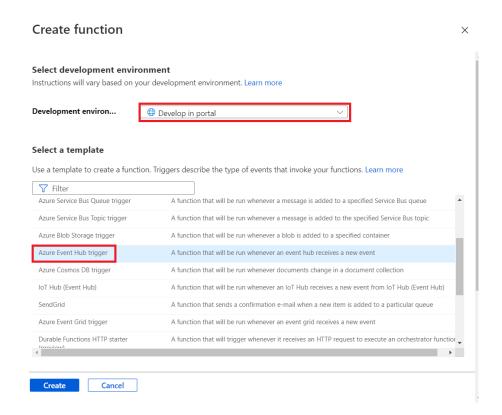


16. Click Create.

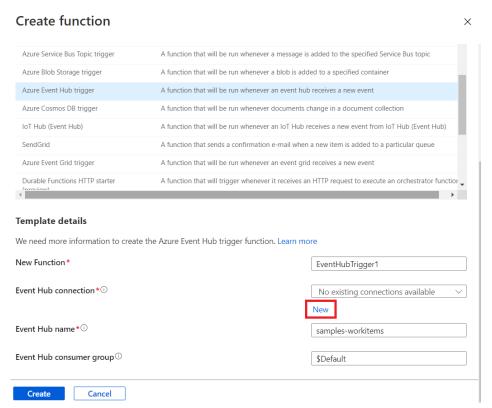


17. Select the **Develop in portal** option and click the **Azure Event Hub trigger.**



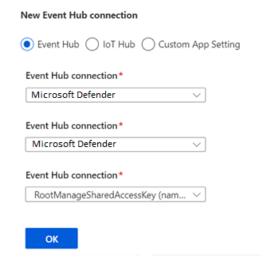


18. In the Event Hub connection, click New.

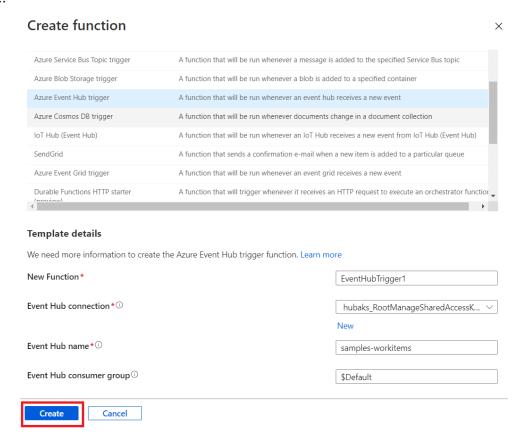




19. Let Azure populate the available Event Hub namespace and Event Hub. Select the desired ones and click **Ok.**

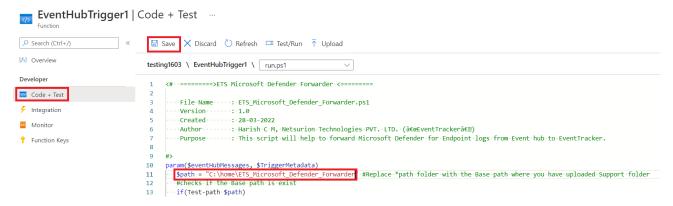


20. Click Create.



21. Click **Code+Test** and copy the contents of **ETS_Microsoft_Defender_forwarder.ps1** (as received in the integration package) and paste it into the given **run.ps1** window in the Azure function app portal and replace the path which was copied on **step 10** (Example path: - C:\home\ETS_Azure_FunctionApp) and click **Save.**



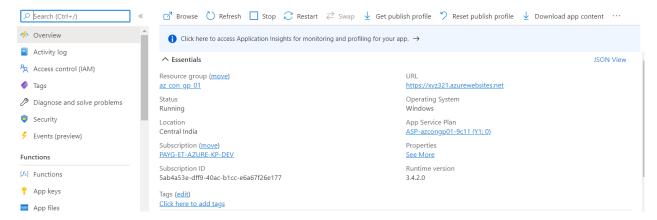


3.3 Cost Management

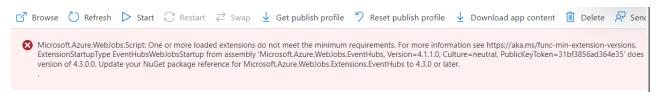
- The below-mentioned services are charged by Microsoft based on usage.
 - Function App
 Click here Function-App-price-tier to know more on pricing details.
 - Event Hub
 Click here Event-Hub-price-tier to know more on pricing details.

3.4 Verifying Function App

- Once the Function App is deployed, follow the below-mentioned steps to verify the deployment.
 - 1. Login to https://portal.azure.com/
 - 2. Search for Function App service.
 - 3. Click on created Function App.
 - 4. On successful deployment the screen would look as shown below.



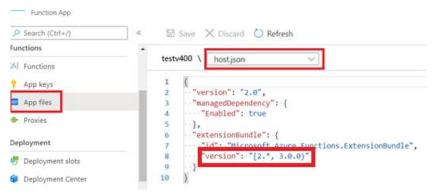
• Sometimes due to the mismatch of the extension package one could see below-mentioned error. Below are the steps provided to remediate the issue.



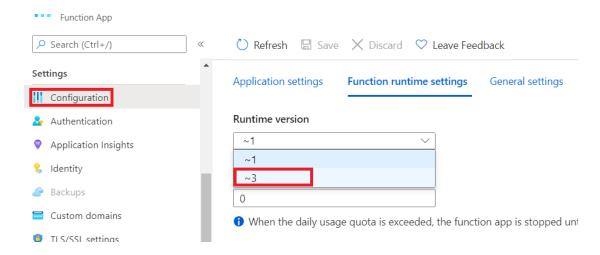
o To check the extension bundle.



- 1. Click on **App files** under the Function section in the left pane of the function App home page
- 2. Choose **host.json** from the dropdown
- 3. Modify the version details in the JSON file to "version": "[2.*, 3.0.0)"
- 4. Click Save.



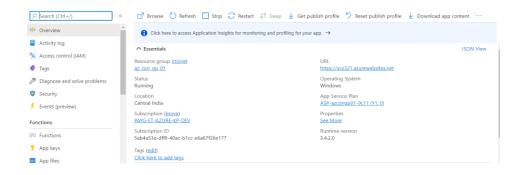
- o To check the Function App run time version.
 - 1. Click on **Configuration** under Settings in the left pane of the function App home page.
 - 2. Click on Function runtime settings.
 - 3. Choose Runtime version to ~3 from the dropdown.
 - 4. Click Save.



O Click on the **Overview** in the left pane to go to the **Function App** home page.

Now the home page should not be showing the earlier error message as shown below.





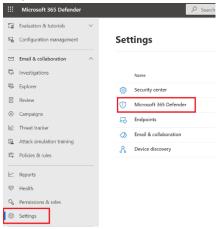
4. Configuring Microsoft Defender to Forward Logs to Event hub

Microsoft Defender for Endpoint can be integrated with EventTracker by streaming the logs to the Azure Event Hub, and from Azure Event Hub to EventTracker.

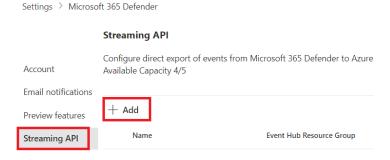
4.1 Configuring Microsoft Defender to stream events to Event Hub

Login to <u>security.microsoft.com</u> using the admin account and <u>create an event hub namespace</u>, if not created.

1. Click on **Settings** on the left panel and click **Microsoft 365 Defender.**



Click Streaming API and Click on +Add.

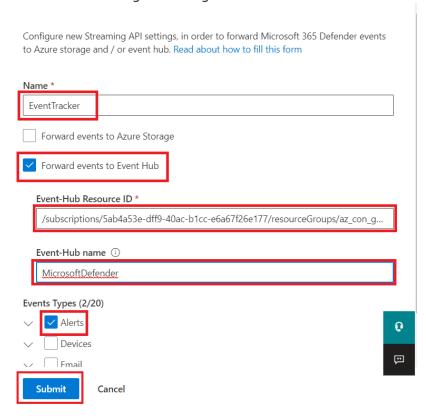


3. Configure Stream API.



- Fill Name like EventTracker.
- Check the box Forward event to Azure Storage.
- Paste Event-Hub Resource ID (Copied on 3.1 step 4).
- Paste Event-Hub name (Copied on 3.1 step 6).
- Check the box Alerts under Events Types.
- Click Submit.

Add new Streaming API settings



4. After successful configuration the following screen display.

Settings > Microsoft 365 Defender

Streaming API Configure direct export of events from Microsoft 365 Defender to Azure Available Capacity 3/5 Email notifications Preview features Streaming API Name Event Hub Resource Group EventTracker az_con_gp_01



5. EventTracker Knowledge Packs

After the logs are received by the EventTracker Manager, then the Knowledge Packs can be configured into EventTracker.

The following Knowledge Packs (KPs) are available in EventTracker to support the Microsoft Defender.

5.1 Alerts

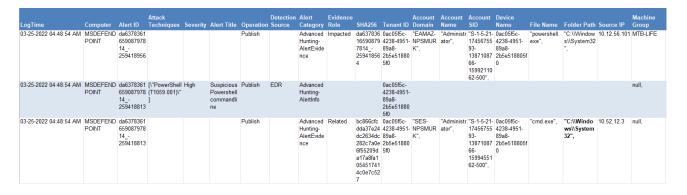
 Microsoft Defender for Endpoint: Critical threat detected: This alert indicates a critical threat is detected in Microsoft Defender for Endpoint.

5.2 Categories

Microsoft Defender for Endpoint – Alerts: This category of the saved search will allow users to parse events specific to the alert info on the Microsoft Defender for Endpoint.

5.3 **Reports**

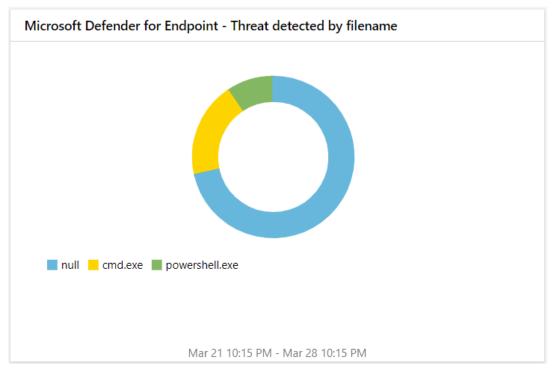
Microsoft Defender for Endpoint - Alerts detail: This report provides a detailed summary of defender alerts in Microsoft Defender for Endpoint. It contains a source IP address, remote IP address, alert ID, detection source, attack technique, severity, device name, remote URL, threat family, and more.



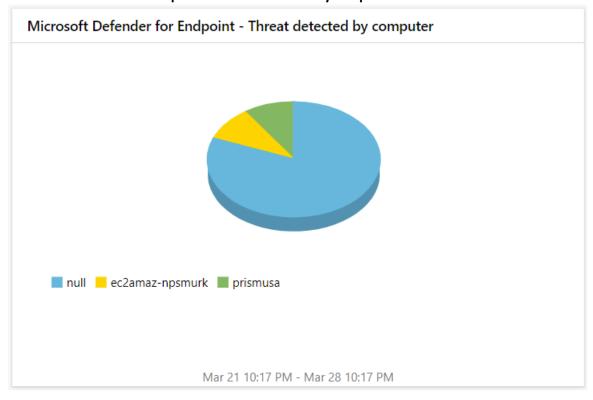


5.4 **Dashboards**

Microsoft Defender for Endpoint - Threat detected by filename

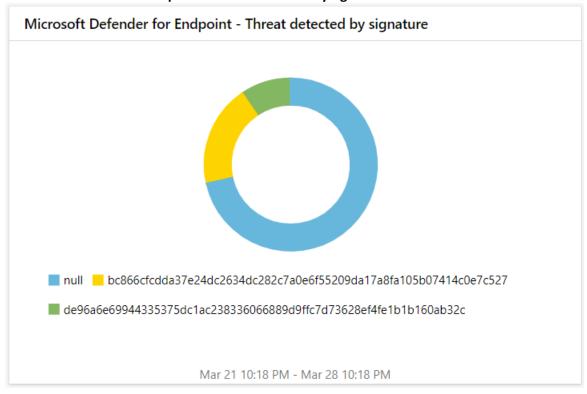


Microsoft Defender for Endpoint - Threat detected by computer

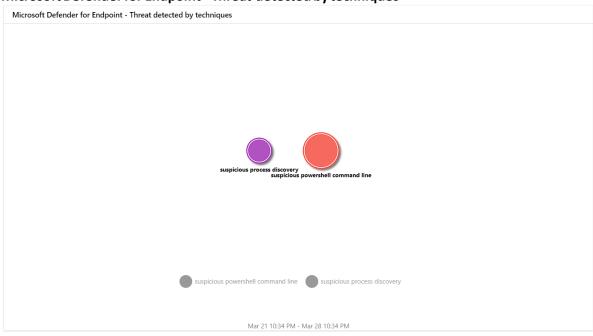




Microsoft Defender for Endpoint - Threat detected by signature



Microsoft Defender for Endpoint - Threat detected by techniques

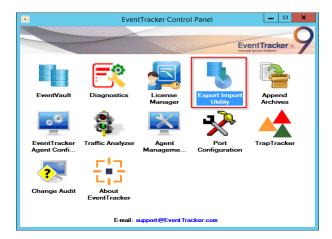




6. Importing Microsoft Defender Knowledge Packs into EventTracker

NOTE: Import the Knowledge Pack items in the following sequence:

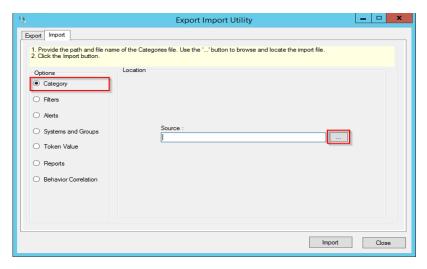
- Categories
- Alerts
- Knowledge Objects
- Reports
- Dashboards
- 1. Launch the EventTracker Control Panel.
- 2. Double click the **Export-Import Utility**.



3. Click the Import tab.

6.1 Categories

1. Click the **Category** option, and then click the **Browse** button.





- 2. Locate the Categories_ Microsoft Defender for Endpoint.iscat file, and then click the Open button.
- 3. To import the categories, click the **Import** button.

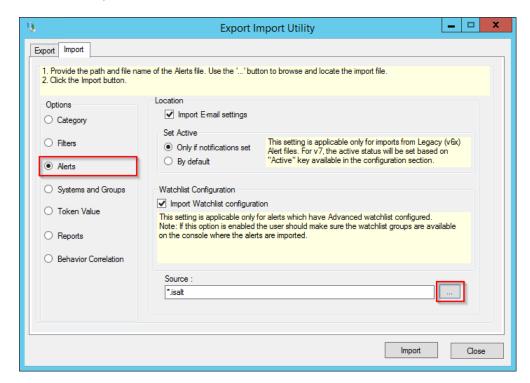
EventTracker displays a success message.



4. Click **OK**, and then click the **Close** button.

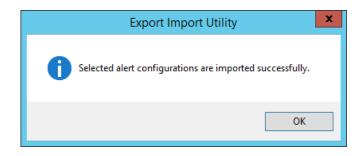
6.2 Alerts

1. Click the **Alerts** option, and then click the **Browse** button.



- 2. Locate the Alerts_ Microsoft Defender for Endpoint.isalt file, and then click the Open button.
- 3. To import the alerts, click the **Import** button. EventTracker displays a success message.

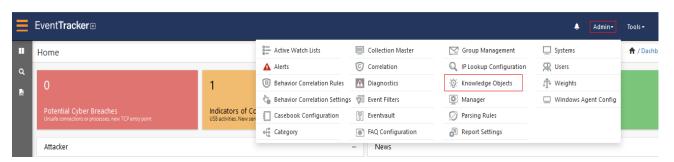




4. Click **OK**, and then click **Close**.

6.3 Knowledge Objects (KO)

1. Click Knowledge Objects under the Admin option on the EventTracker Manager page.

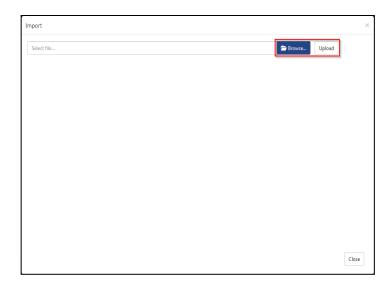


2. Click the **Import** \blacksquare button as highlighted in the below image:

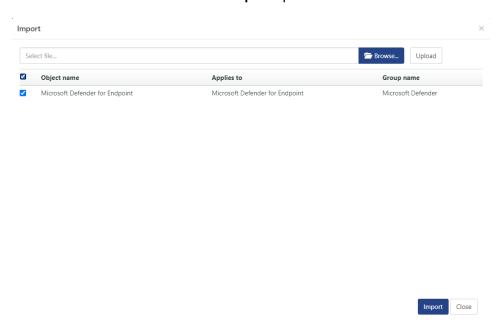


3. Click Browse.

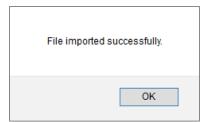




- 4. Locate the file named **KO_Microsoft Defender for Endpoint.etko**.
- 5. Select the check box and then click the **Import** option.



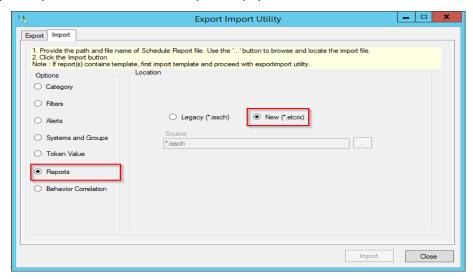
6. The Knowledge Objects (KO) are now imported successfully.



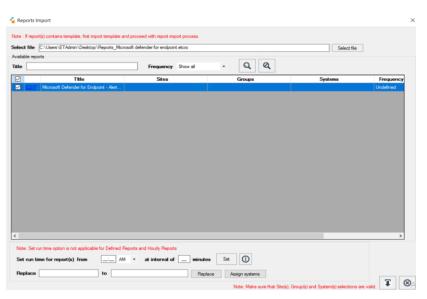


6.4 Reports

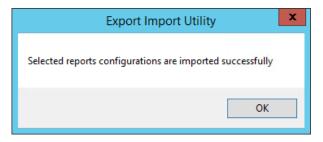
1. Click the **Reports** option and select the **New (*.etcrx)** option.



2. Locate the file named Reports_Microsoft Defender for Endpoint.etcrx and select all the check boxes.



3. Click the **Import** button to import the report. EventTracker displays a success message.

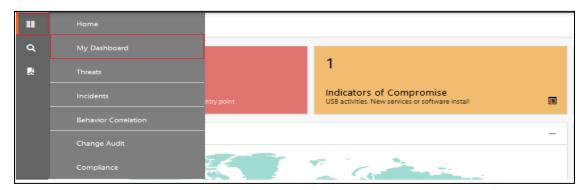




6.5 **Dashboards**

NOTE: Below steps given are specific to EventTracker 9 and later.

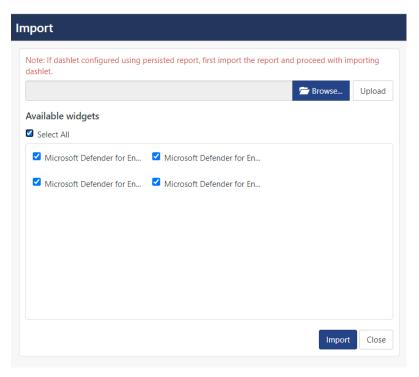
1. Open **EventTracker** in a browser and log on.



- 2. Navigate to the My Dashboard option.
- 3. Click the **Import** button as shown below.



- 4. Import the dashboard file **Dashboards_ Microsoft Defender for Endpoint.etwd** and select the **Select All** checkbox.
- 5. Click **Import** as shown below.





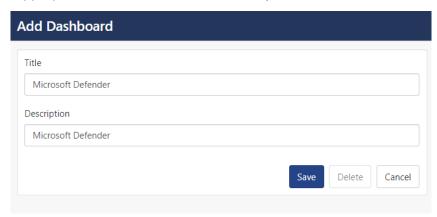
6. Import is now completed successfully.



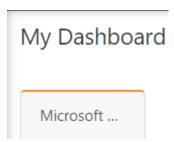
7. In the My Dashboard page select \oplus to add dashboard.



8. Choose the appropriate name for the **Title** and **Description**. Click **Save**.

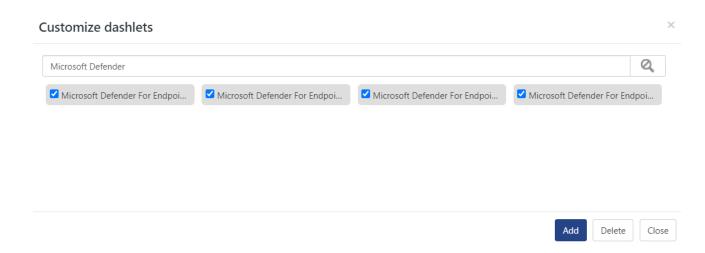


9. On the **My Dashboard** page select to add dashlets.



10. Select the imported dashlets and click Add.





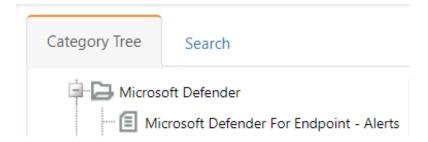
7. Verifying Microsoft Defender Knowledge Packs in EventTracker

7.1 Categories

- 1. Logon to EventTracker.
- 2. Click the Admin dropdown, and then click Category.



3. In the **Category Tree**, scroll down and expand the **Microsoft Defender** group folder to view the imported category.



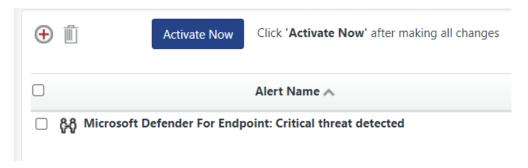
7.2 Alerts

- 1. Logon to EventTracker.
- 2. Click the Admin menu, and then click Alerts.



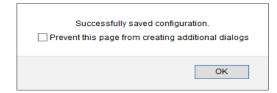


3. In the **Search** box, type **Microsoft Defender**, and then click the **Go** button. The Alert Management page will display the imported alert.



4. To activate the imported alert, toggle the **Active** switch.

EventTracker displays a message box.



5. Click **OK**, and then click the **Activate Now** button.

NOTE: Specify the appropriate **system** in **alert configuration** for better performance.

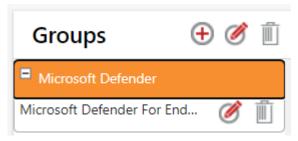
7.3 Knowledge Objects

1. In the EventTracker web interface, click the Admin dropdown, and then select Knowledge Objects.





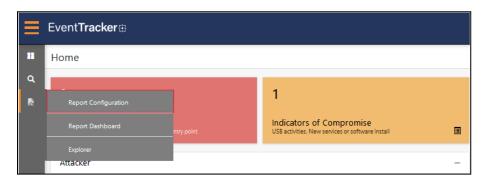
2. In the Knowledge Object tree, expand the **Microsoft Defender** group folder to view the imported Knowledge Objects.



3. Click **Activate Now** to apply the imported Knowledge Objects.

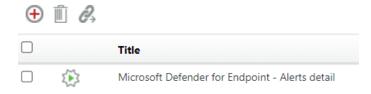
7.4 Reports

1. In the **EventTracker** web interface, click the **Reports** menu, and then select **Report Configuration**.



- 2. In the **Reports Configuration** pane, select the **Defined** option.
- 3. Click the Microsoft Defender group folder to view the imported reports.

Reports configuration: Microsoft Defender



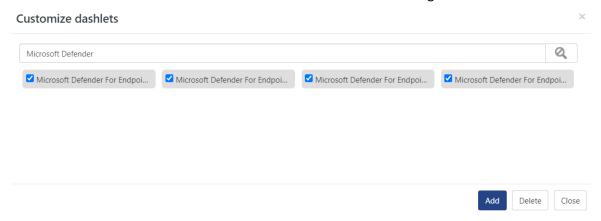
7.5 **Dashboards**

1. In the EventTracker web interface, click the **Home** Button and select **My Dashboard**.





2. Click **Search** for the **Microsoft Defender.** You will see the following screen.





About Netsurion

Flexibility and security within the IT environment are two of the most important factors driving business today. Netsurion's managed cybersecurity platforms enable companies to deliver on both.

Netsurion Managed Threat Protection combines our ISO-certified security operations center (SOC) with our own award-winning cybersecurity platform to better predict, prevent, detect, and respond to threats against your business. Netsurion Secure Edge Networking delivers our purpose-built edge networking platform with flexible managed services to multi-location businesses that need optimized network security, agility, resilience, and compliance for all branch locations. Whether you need technology with a guiding hand or a complete outsourcing solution, Netsurion has the model to help drive your business forward. To learn more visit netsurion.com or follow us on Twitter or LinkedIn.

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https://www.netsurion.com/eventtracker-support