

## Integration Guide

# Integrating Azure App Service with EventTracker

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## Abstract

This guide provides instructions to retrieve the **Azure App Service** 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, reports, dashboard, alerts, and saved searches can be configured.

## Scope

The configuration details in this guide are consistent with EventTracker version 9.3 or above and **Azure App Service**.

## Audience

The Administrators who are assigned the task to monitor the **Azure App Service** events using EventTracker.

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## 1. Overview

Azure App Service helps to create apps faster with a one-of-a-kind cloud service to create enterprise-ready web and mobile apps quickly and easily for any platform or device and deploy them on a scalable and reliable cloud infrastructure.

EventTracker helps to monitor events from the Azure App Service. Its dashboard and reports will help you track, login activities of site content in the Azure App Service, IP access restriction with web traffic allowed or denied activities, and web traffic with user agent and status code which helps to detect potential directories brute force and invalid access.

## 2. Prerequisites

- An Azure Subscription and a user who is a global administrator.
- Azure Resource group.
- EventTracker Manager public IP address.

## 3. Configuring Azure App Service to Forward Logs to EventTracker

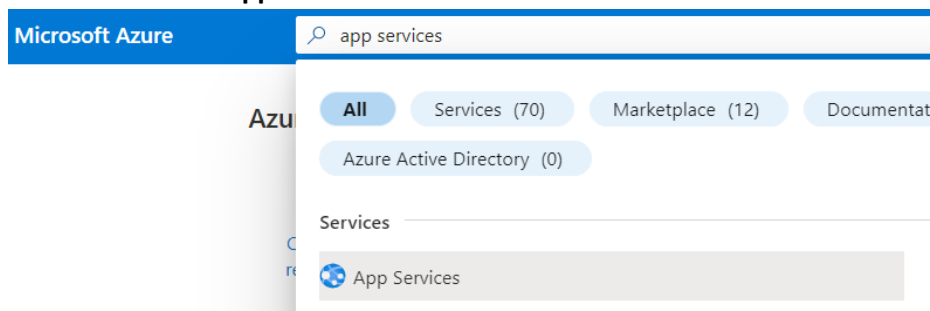
Azure App Service can be integrated with EventTracker by streaming the logs to the Azure Event Hub, and from Azure Event Hub to EventTracker.

### 3.1 Forwarding Event Hub data to EventTracker

Refer to the [Configuration of the Azure function app](#) to forward logs to EventTracker.









### 3.2 Configuring Azure App Service to stream events to Event Hub

1. Login to [portal.azure.com](https://portal.azure.com) using the Admin account and [create an event hub namespace](#), if not created.
2. Search and select **App Services** from **All services**.



3. From the left panel under **Monitoring**, select **Diagnostics settings**.

## Monitoring

-  Alerts
-  Metrics
-  Logs
-  Health check
-  Diagnostic settings
-  App Service logs
-  Log stream
-  Process explorer

4. Click on **Add diagnostics settings**.

[+ Add diagnostic setting](#)

Click 'Add Diagnostic setting' above to configure the collection of the following data:

- AppServiceHTTPLogs
- AppServiceConsoleLogs
- AppServiceAppLogs
- AppServiceAuditLogs
- AppServiceIPSecAuditLogs
- AppServicePlatformLogs
- AllMetrics

5. Provide the inputs.

**Diagnostics settings name**, such as **EventTracker\_App Service**.

Select all **log** type, i.e., AppServiceHTTPLogs

In the **Destination details** section, select **stream to an Event Hub** and then choose the following options.

- **Subscription:** Select the desired Azure subscription.
- **Event Hub namespace:** Select the Event Hub namespace.
- **Event Hub name:** Select Event Hub created under the Event Hub namespace.
- **Event Hub policy name:** Select the Event Hub policy.

6. Click **Save**.

## Diagnostic setting ...

 Save
  Discard
  Delete
  Feedback

A diagnostic setting specifies a list of categories of platform logs and/or metrics that you want to collect from a resource, and one or more destinations that you would stream them to. Normal usage charges for the destination will occur. [Learn more about the different log categories and contents of those logs](#)

Diagnostic setting name \*

EventTracker\_App Service

### Logs

#### Categories

☒ AppServiceHTTPLogs

☒ AppServiceConsoleLogs

☒ AppServiceAppLogs

☒ AppServiceAuditLogs

☒ AppServiceIPSecAuditLogs

☒ AppServicePlatformLogs

### Metrics

☐ AllMetrics

### Destination details

☐ Send to Log Analytics workspace

☐ Archive to a storage account

☒ Stream to an event hub

For potential partner integrations, [click to learn more about event hub integration](#).

Subscription

PAYG-ET-AZURE-KP-DEV

Event hub namespace \*

az-siemhub

Event hub name (optional) ⓘ

collector

Event hub policy name

RootMananaSharedAccessKey

## 4. 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 Azure App Service.

### 4.1 Alerts

- **Azure App Service: Access denied by IP access restriction:** This alert indicates that an IP address is blocked by the access restriction rule in the Azure App Service.
- **Azure App Service: Illegal web call detected:** This alert indicates that an illegal web call is detected in the Azure App Service.
- **Azure App Service: Potential directories brute force detected:** This alert indicates that a potential directories brute force is detected in the Azure App Service.

### 4.2 Categories

- **Azure App Service – App service activities:** This category of the saved search will allow the users to parse the events that are specific to the app service activities on the Azure App Service.

### 4.3 Reports

- **Azure App Service – App service activities:** This report provides a detailed summary of app service activities in the Azure App Service. It contains a source IP address, username, user agent, status code, port number, input bytes, output bytes, and more.

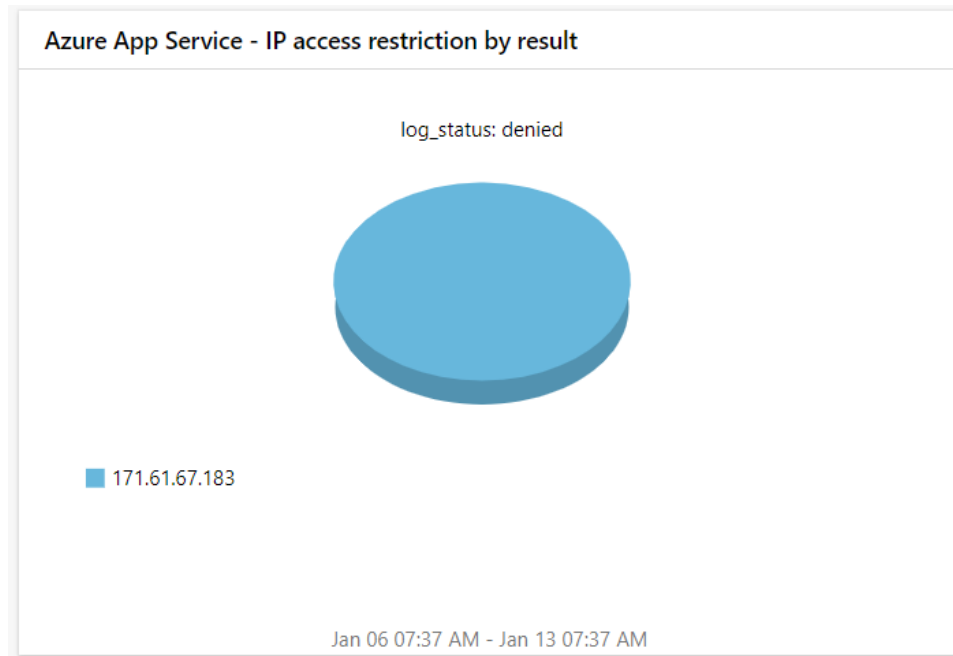
LogTime	Computer	Log Category	Source IP Address	User Name	Details	Result	Operation Name	Host URI	Http Method	Host Name	Input bytes	Computer Name	Referer	Resource ID	Output bytes	Http Code	Port Number	User ID	User Agent
01-27-2022 05:33:25 AM	APPSERVICE	AppServiceLogs	10.61.67.183		Denied by 10.61.64.0/16 rule.	Denied	Authorization			nameapp.azurewebsites.net				/SUBSCRIPTIONS/SAB4A53E-DFF9-40AC-B1CC-E6A67F26E177/RESOURCERGROUPS/AZ_CON_GP_01/PROVIDERS/MICROSOFT.WEB/SITES/NAMEAPP					
01-27-2022 05:33:23 AM	APPSERVICE	AppServiceHTTPLogs	10.61.67.183			Success		/dev/api/events/wwwroot/longpoll	POST	nameapp.azurewebsites.net	2161	WEBWK000001	https://nameapp.scm.azurewebsites.net/dev/wwwroot/wwwroot	FRSITES/NAMEAPP	629	400	443		Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/97.0.4692.71 Safari/537.36
01-27-2022 05:33:23 AM	APPSERVICE	AppServiceAuditLogs	172.45.85.64	John@contoso.com			Authorization							/SUBSCRIPTIONS/SAB4A53E-DFF9-40AC-B1CC-E6A67F26E177/RESOURCERGROUPS/AZ_CON_GP_01/PROVIDERS/MICROSOFT.WEB/SITES/NAMEAPP				100320012A289DD4	

## 4.4 Dashboards

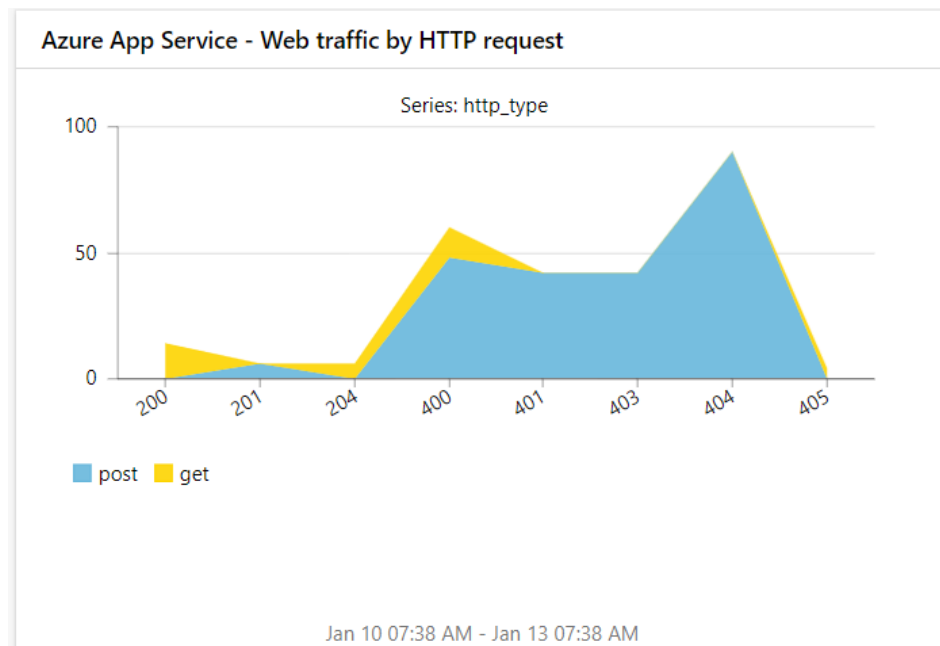
- Azure App Service - Login activities by geo location



- **Azure App Service - IP access restriction by result**

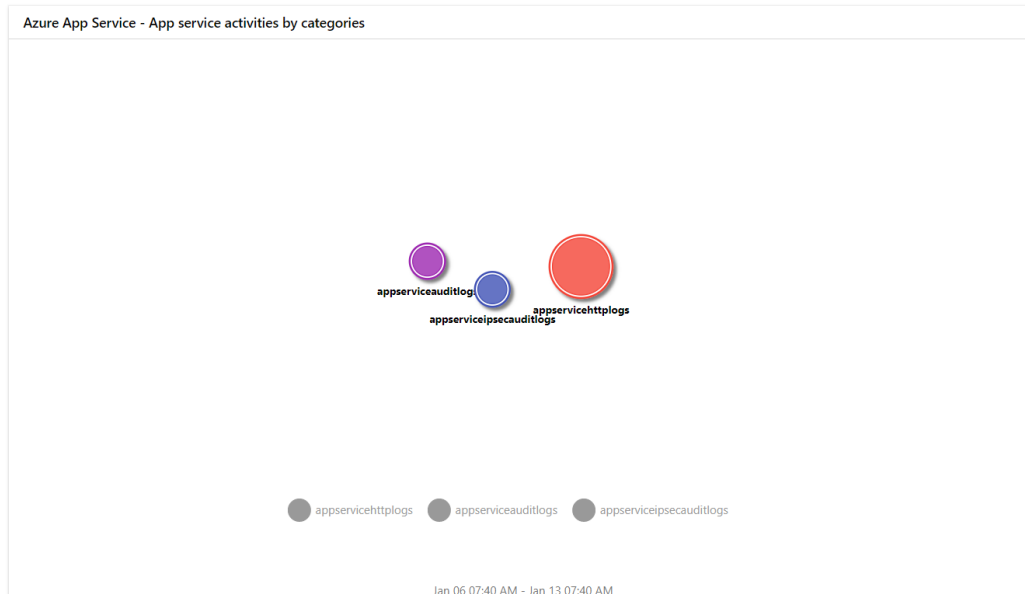


- **Azure App Service - Web traffic by HTTP request**

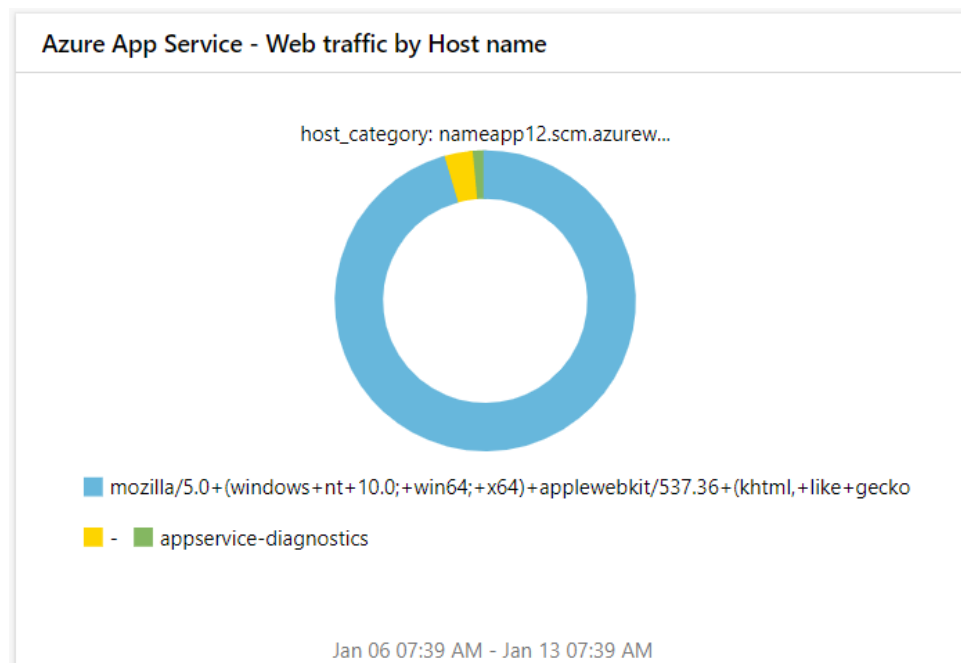




- **Azure App Service - App service activities by categories**



- **Azure App Service - Web traffic by Host name**

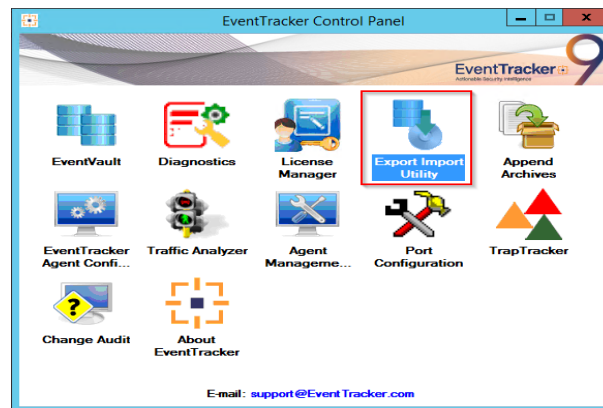


## 5. Importing Azure App Service Knowledge Packs into EventTracker

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

- Categories
- Alerts
- Knowledge Objects
- Reports
- Dashboards

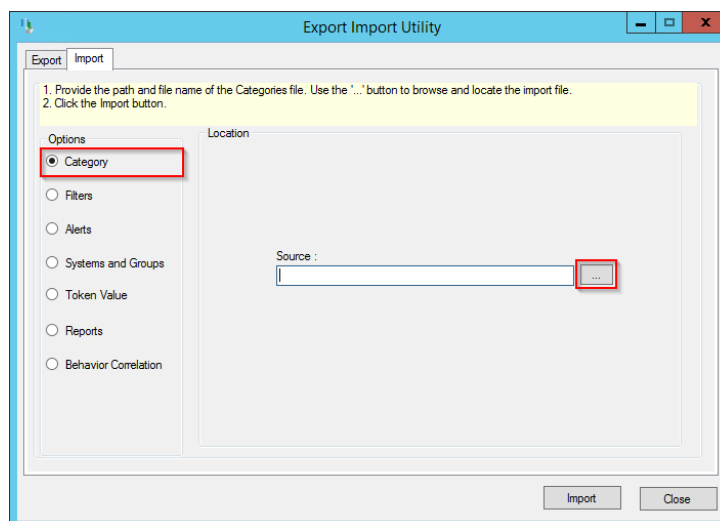
1. Launch the **EventTracker Control Panel**.
2. Double click the **Export-Import Utility**.



3. Click the **Import** tab.

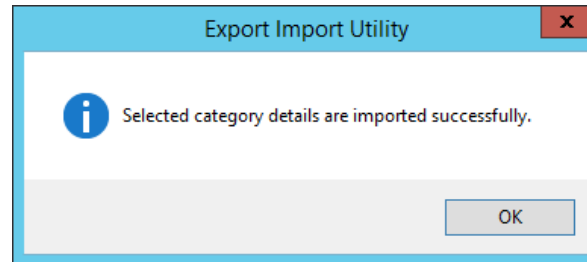
### 5.1 Categories

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




2. Locate the **Categories\_Azure App Service.iscat** file, and then click the **Open** button.
3. To import the categories, click the **Import** button.

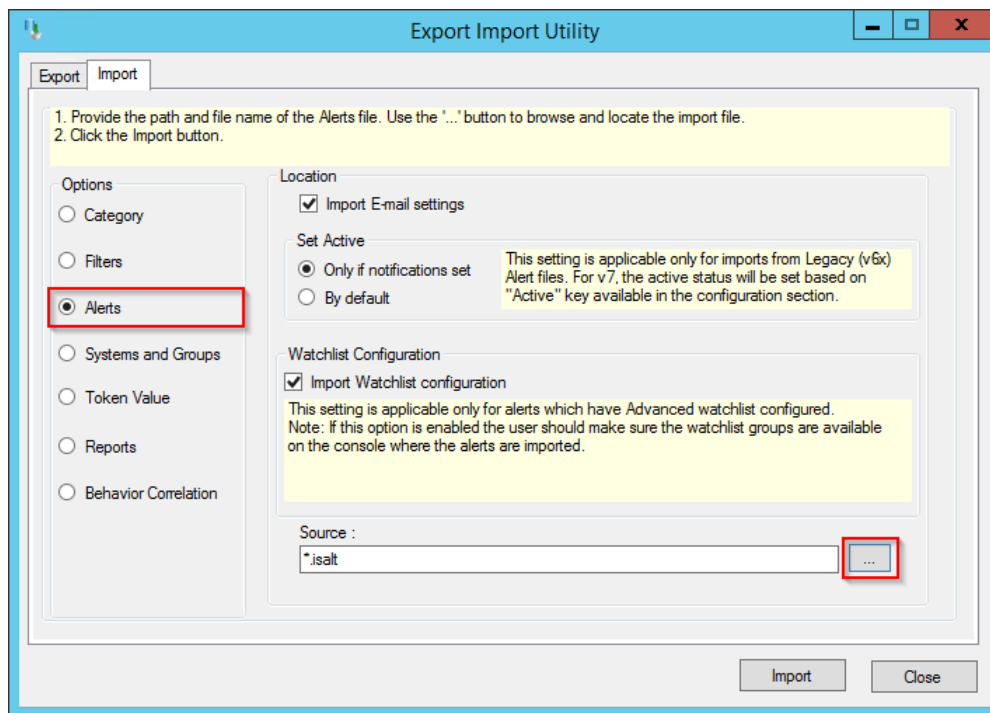
EventTracker displays a success message.



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

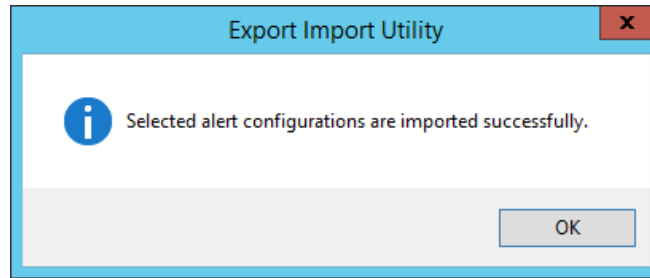
## 5.2 Alerts

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



2. Locate the **Alerts\_Azure App Service.isalt** file, and then click the **Open** button.
3. To import the alerts, click the **Import** button.

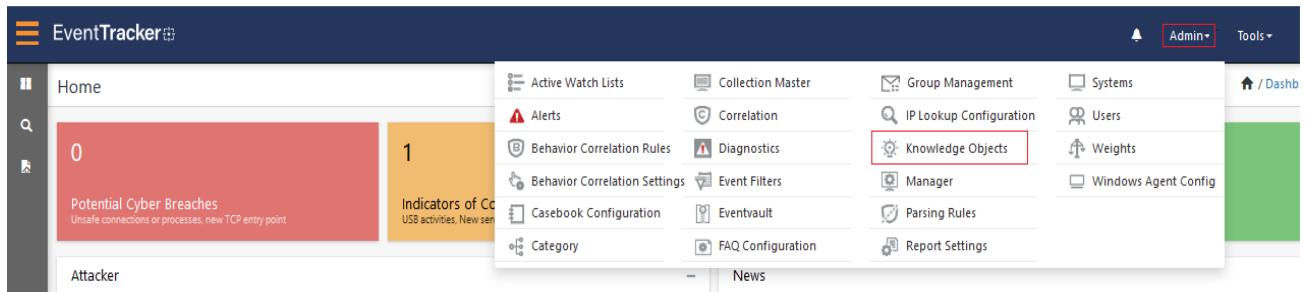
EventTracker displays a success message.



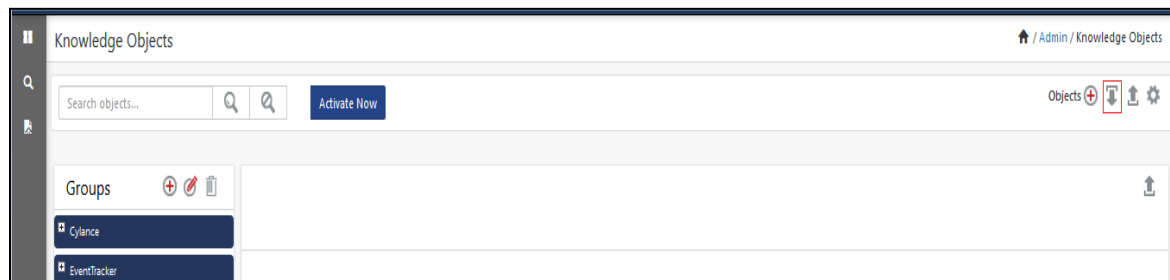
- Click **OK**, and then click **Close**.

## 5.3 Knowledge Objects (KO)

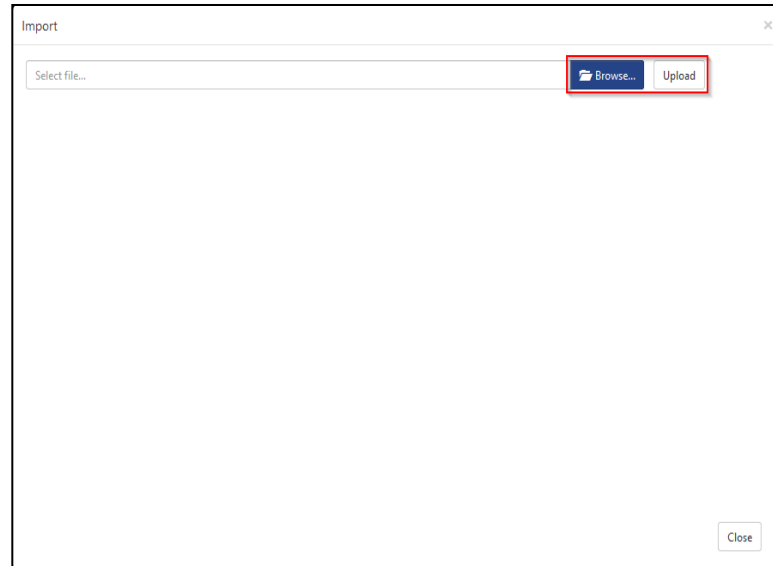
- Click **Knowledge Objects** under the **Admin** option on the EventTracker Manager page.




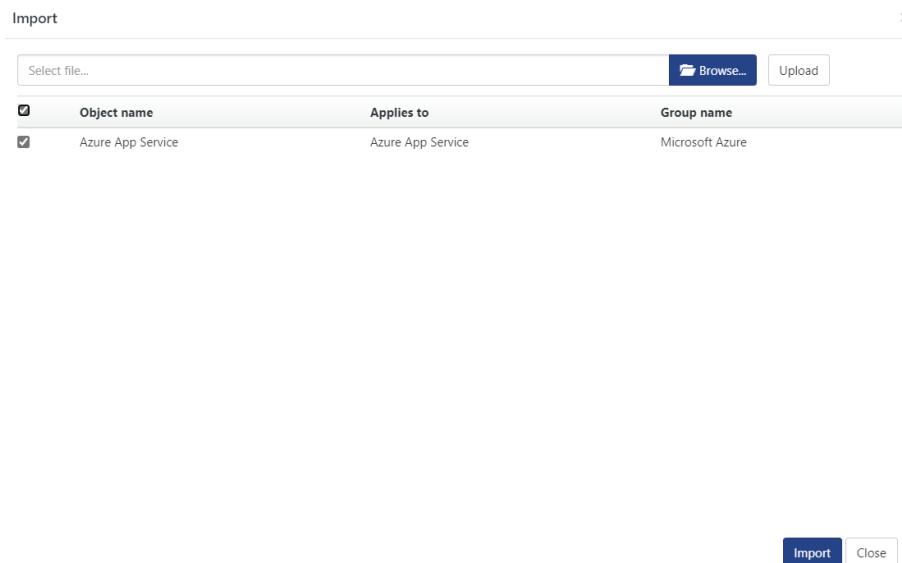
- Click the **Import** button as highlighted in the below image.



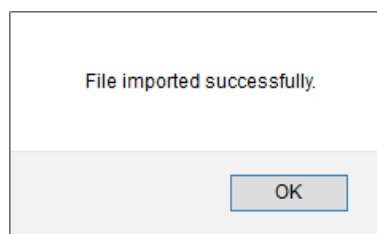
- Click **Browse**.



4. Locate the file named **KO\_Azure App Service.etko**.
5. Select the check box and then click the  **Import** option.

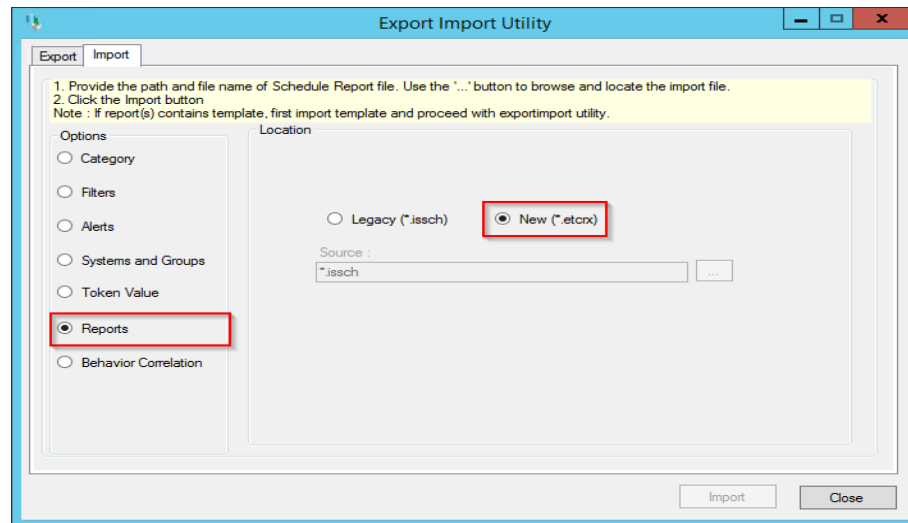


6. The Knowledge Objects (KO) are now imported successfully.

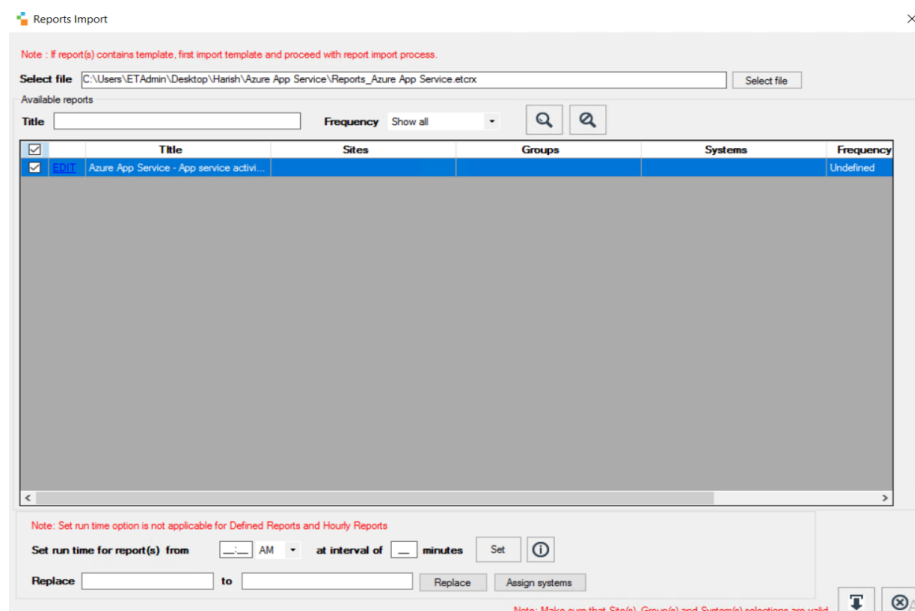


## 5.4 Reports

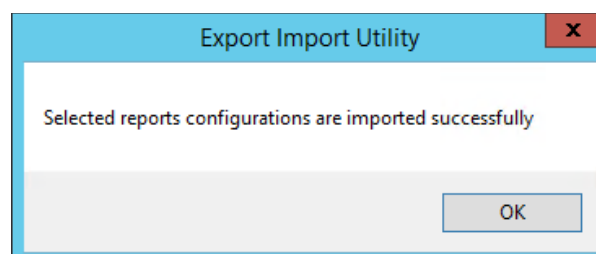
1. Click the **Reports** option and select the **New (\*.etcrx)** option.



2. Locate the file named **Reports\_Azure App Service.etcrx** and select all the check boxes.



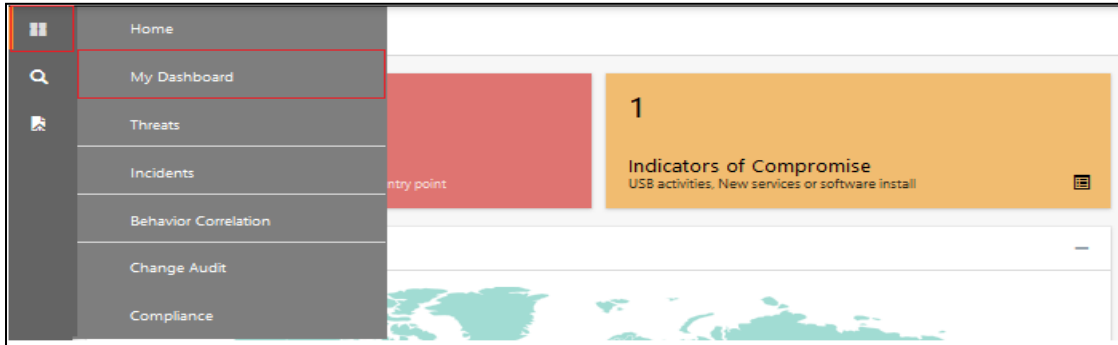
3. Click the **Import** button to import the report. EventTracker displays a success message.



## 5.5 Dashboards

NOTE: Below steps given are specific to EventTracker9 and later.

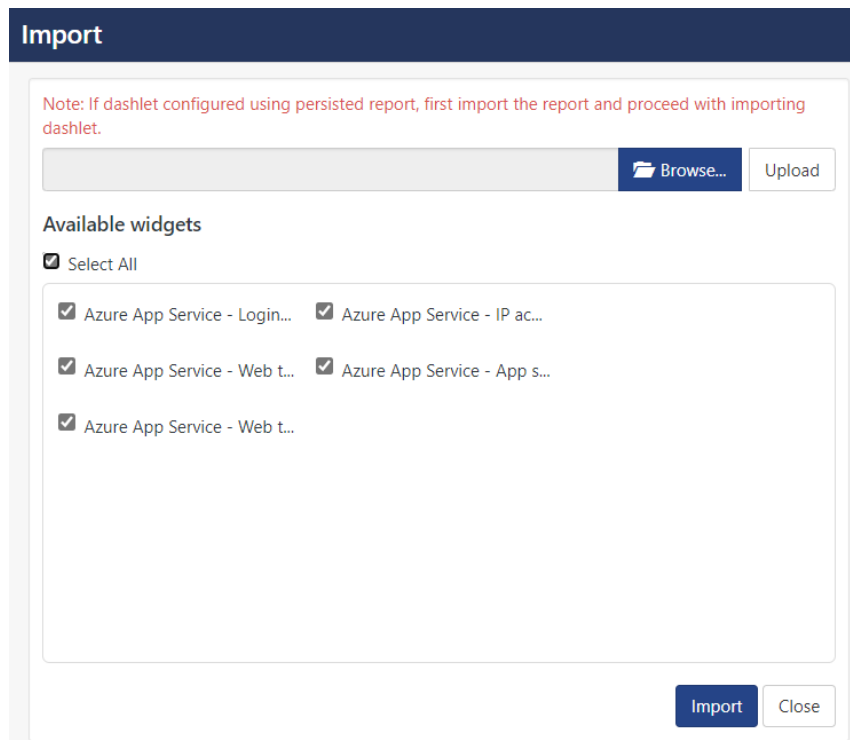
1. Open **EventTracker** in a browser and log on.



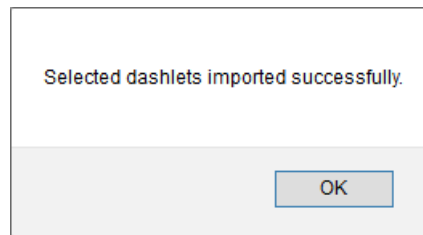
2. Navigate to the **My Dashboard** option.
3. Click the **Import** button as shown below.




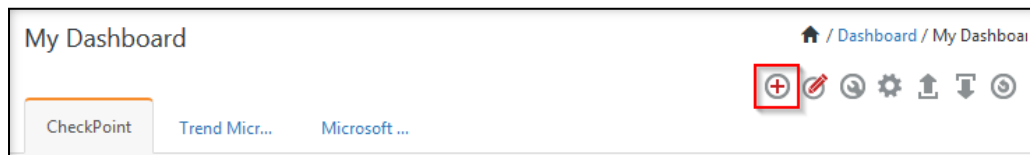
4. Import the dashboard file **Dashboards\_ Azure App Service.etwd** and select the **Select All** checkbox.
5. Click **Import** as shown below.



6. Import is now completed successfully.



7. In the **My Dashboard** page select  to add dashboard.




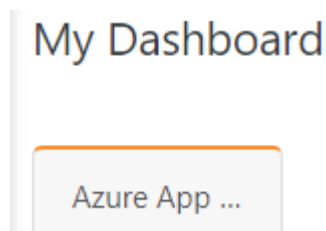
8. Choose the appropriate name for the **Title** and **Description**. Click **Save**.

### Add Dashboard

Title

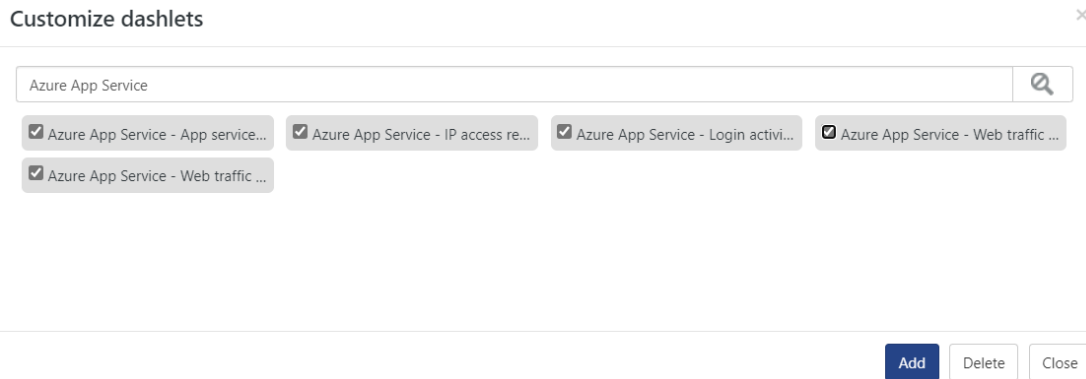
Description

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



10. Select the imported dashlets and click **Add**.

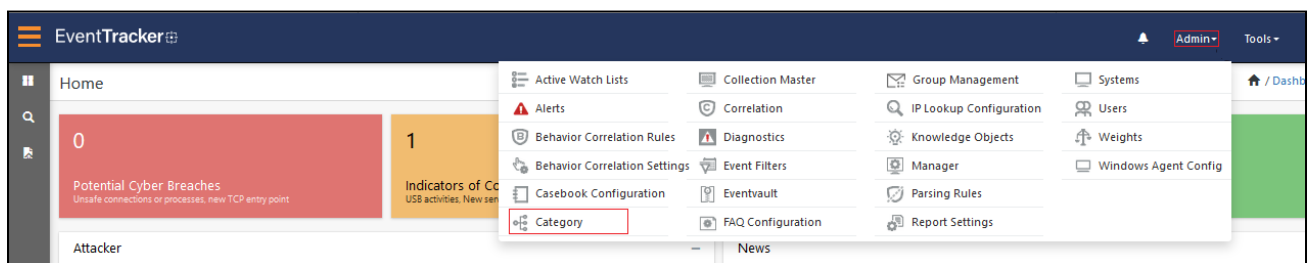




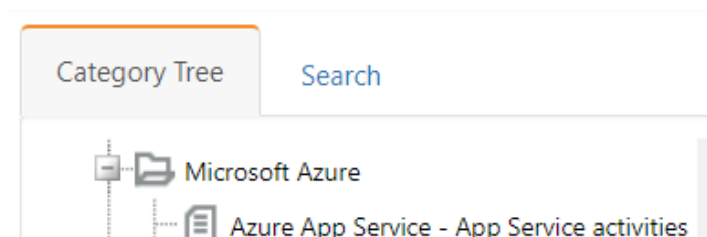
## 6. Verifying Azure App Service Knowledge Packs in EventTracker

### 6.1 Categories

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

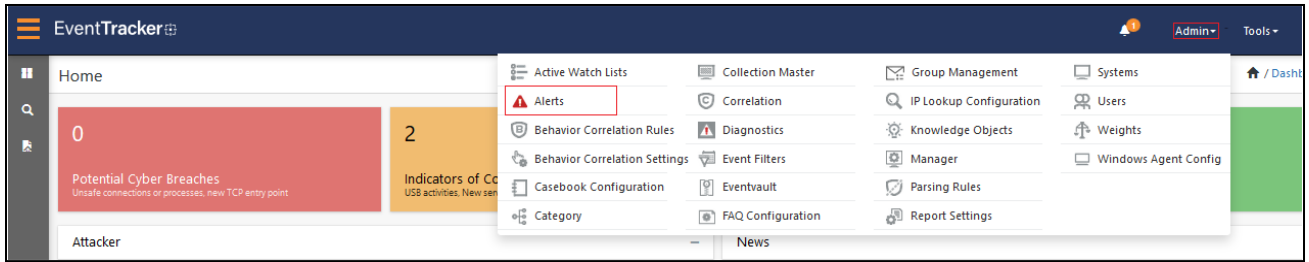


3. In the **Category Tree**, scroll down and expand the **Microsoft Azure** group folder to view the imported category.

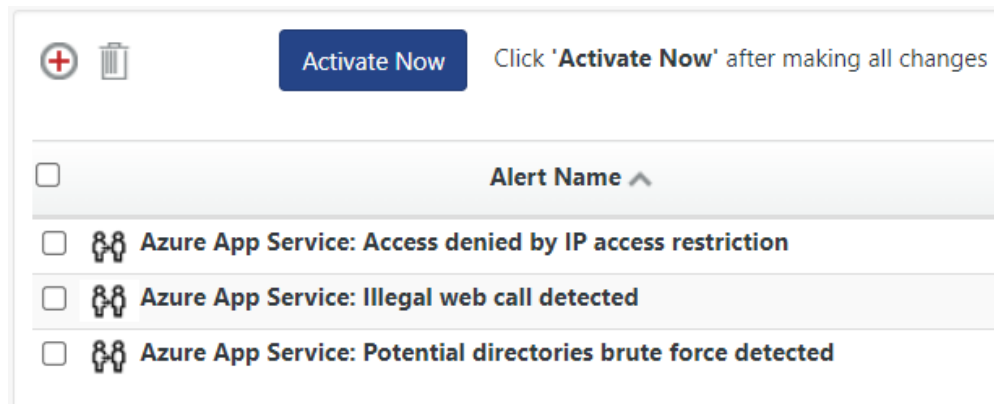


### 6.2 Alerts

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



3. In the **Search** box, type **Azure App Service**, 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.

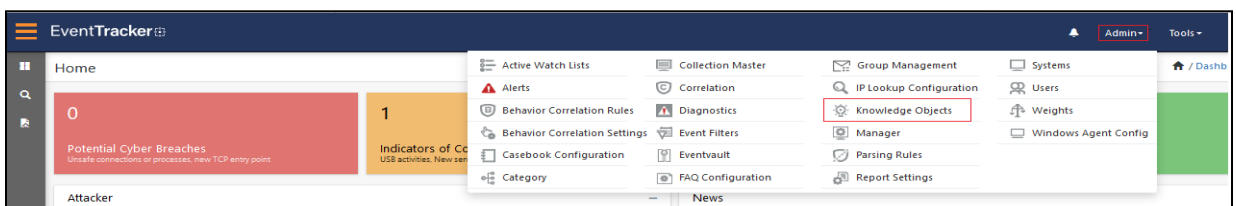


5. Click **OK**, and then click the **Activate Now** button.

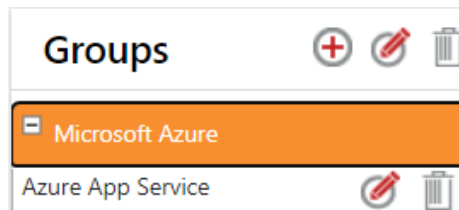
**NOTE:** Specify the appropriate **system** in **alert configuration** for better performance.

## 6.3 Knowledge Objects

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



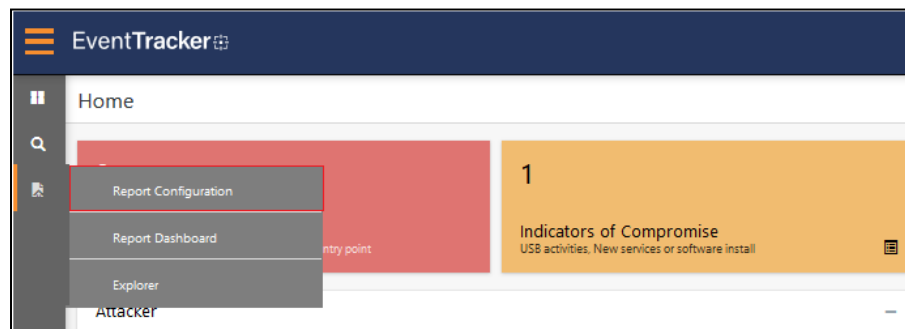
2. In the Knowledge Object tree, expand the **Microsoft Azure group** folder to view the imported Knowledge Objects.



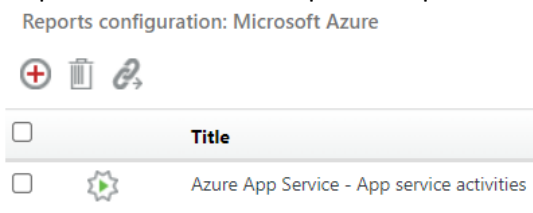
3. Click **Activate Now** to apply the imported Knowledge Objects.

## 6.4 Reports

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

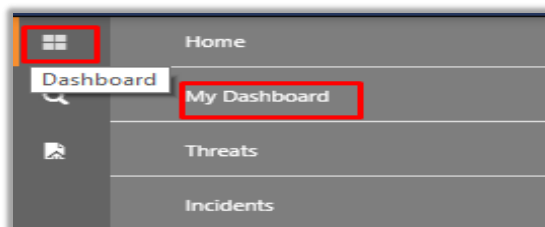


2. In the **Reports Configuration** pane, select the **Defined** option.
3. Click the **Microsoft Azure** group folder to view the imported reports.



## 6.5 Dashboards

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



- Click **Search**  for the **Azure App Service**. You will see the following screen.

Customize dashlets
×

☒ Azure App Service - App service...

☒ Azure App Service - IP access re...

☒ Azure App Service - Login activi...

☒ Azure App Service - Web traffic ...

☒ Azure App Service - Web traffic ...

## 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](https://www.netsurion.com) or follow us on [Twitter](#) or [LinkedIn](#).

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EventTracker Essentials SOC: 877-333-1433 (Option 4)  
EventTracker Software Support: 877-333-1433 (Option 5)  
<https://www.netsurion.com/eventtracker-support>