



# Time Series Insights Hands on lab



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# Goals

Estimated time to complete lab is 60 minutes.

## Goals

1. Learn to
  - a. Provision TSI environment
  - b. Create Event Source
  - c. Visualize Data

## Requirements

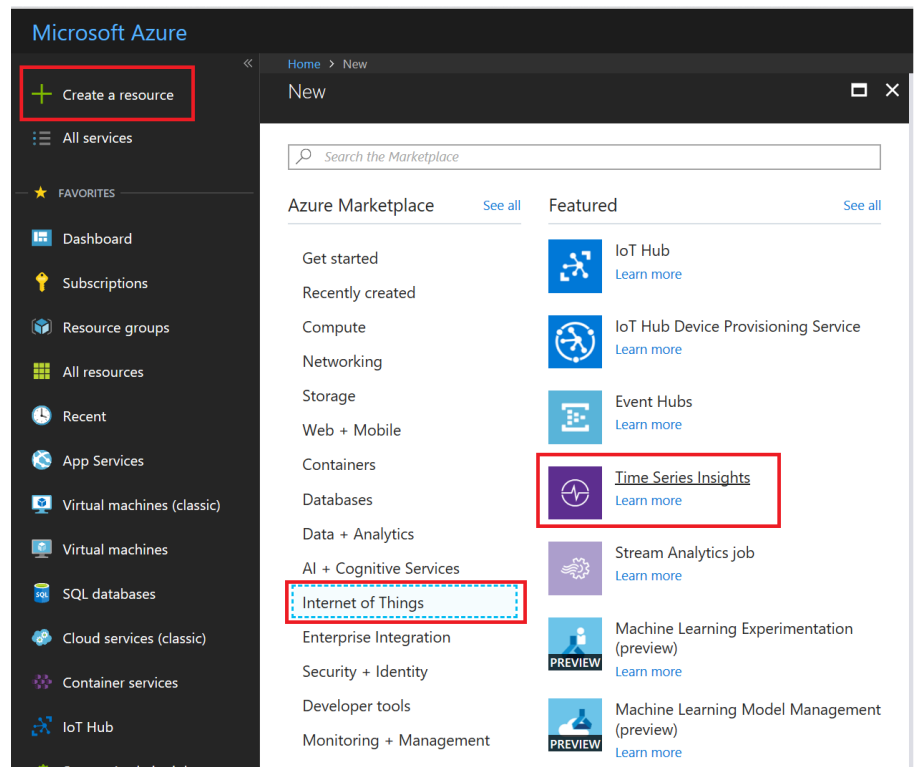
1. Already provisioned IoT Hub.

# Lab Details

## Learn to Use Time Series Insights

1. Create Time Series Insights Environment using Azure Web Portal

Create a resource -> Internet of Things -> Time Series Insights



## 2. Enter properties to create TSI

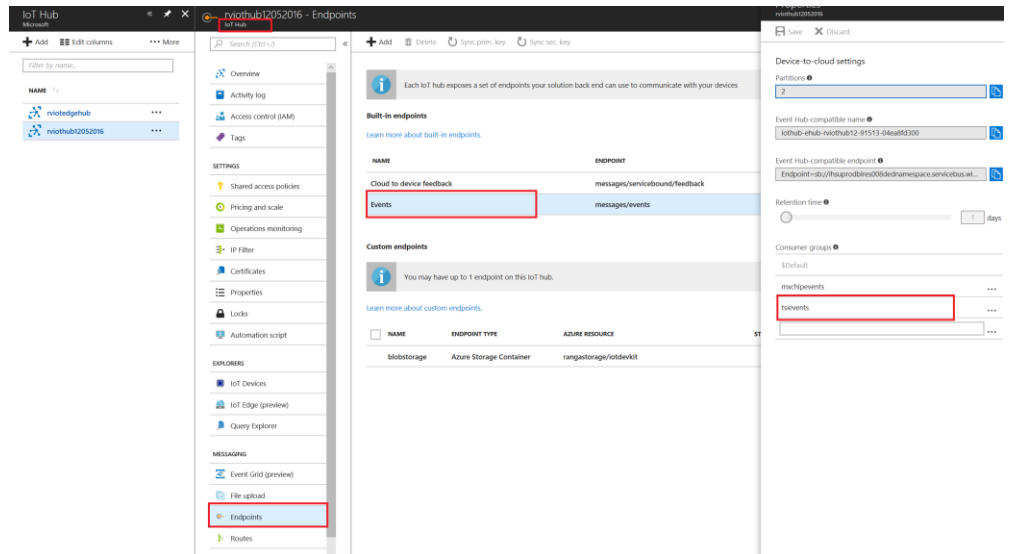
Click Add -> Enter name, resource group etc. -> Click Save

The screenshot shows the Azure portal interface for creating a Time Series Insights environment. On the left, a sidebar contains a '+ Add' button (highlighted with a red box) and a list of existing environments. The main area displays the configuration form for a new environment, titled 'Time Series Insights environment'. The form includes the following fields:

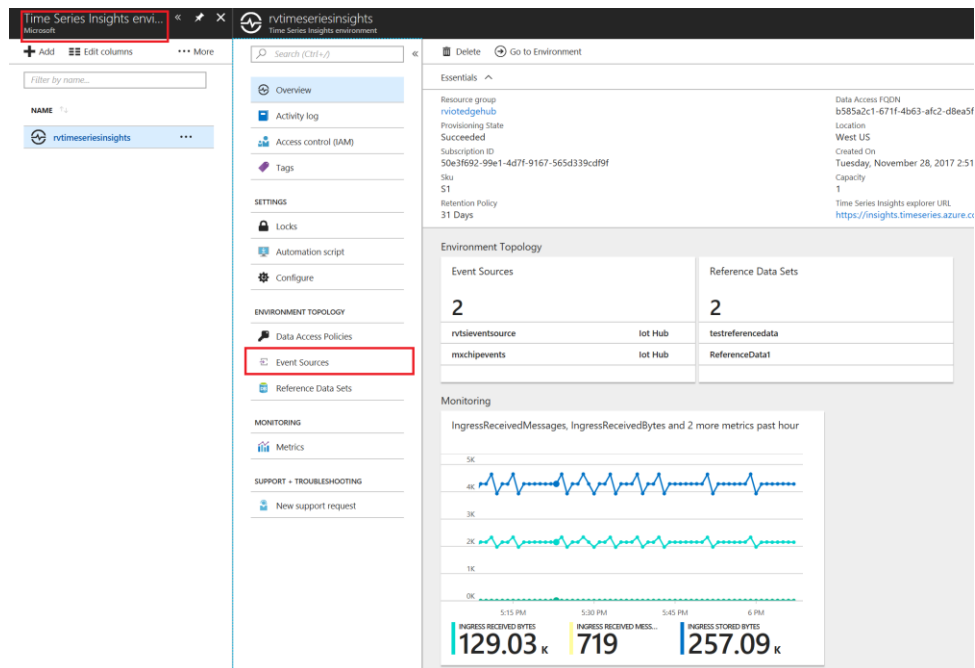
- Environment name:** A text input field containing 'rntimeseriesinsights'.
- Subscription:** A dropdown menu showing 'Ranga Vadlamudi Internal Consumption'.
- Resource group:** Radio buttons for 'Create new' and 'Use existing' (selected), with a dropdown showing 'cloud-shell-storage-westus'.
- Location:** A dropdown menu showing 'West US'.
- Sku:** A dropdown menu showing 'S1 (1 M events / day, 30 M total events)'.
- Capacity:** A slider control set to '1'.
- Summary:** A box showing 'Ingress rate: 1 M events per day', 'Storage capacity: 30 M events', and 'Estimated cost: USD 150 / month'.
- Buttons:** A 'Pin to dashboard' checkbox and a 'Create' button (highlighted with a red box).

## 3. Create Consumer Group for Time Series Insights. Its very important for TSI to have its own Consumer Group

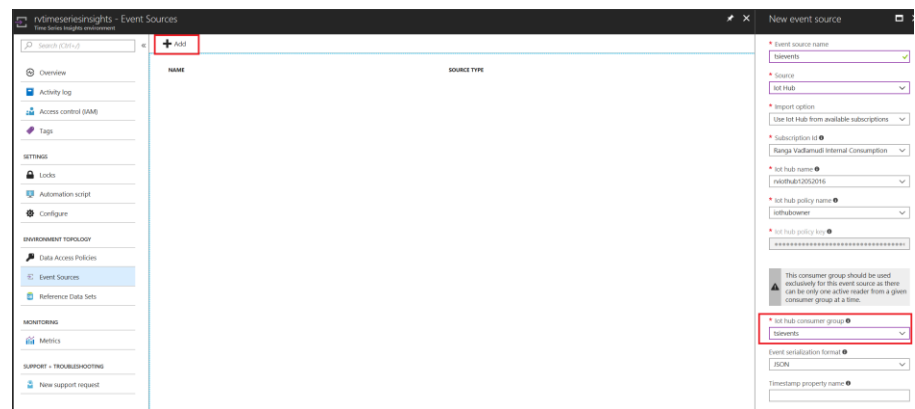
Go to IoT Hub -> Endpoints -> Events -> Create new Consumer Group by entering CG name and clicking save (in the below screen "tsievents" was created and saved)



#### 4. Create Consumer Group for Time Series Insights. It's very important for TSI to have its own Consumer Group

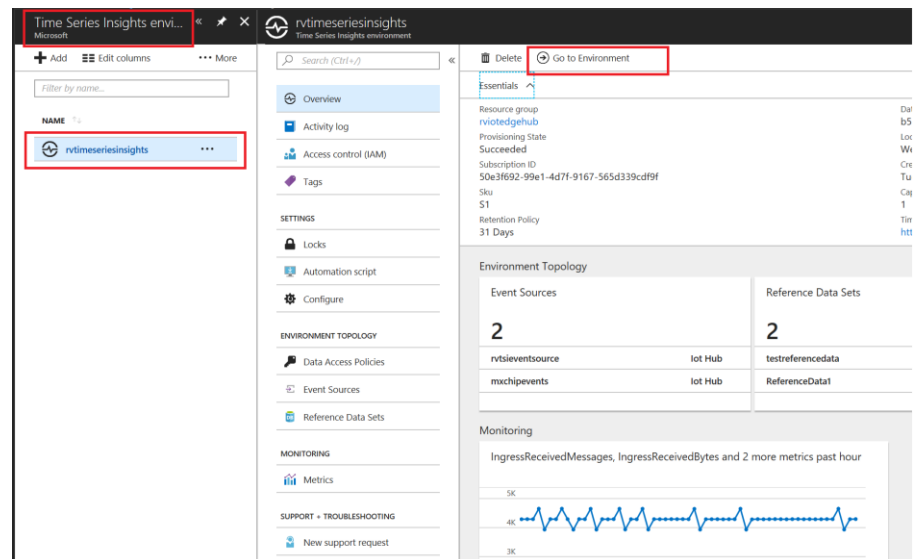


5. Create Event Source for Time Series Insights. Make sure appropriate consumer group is selected

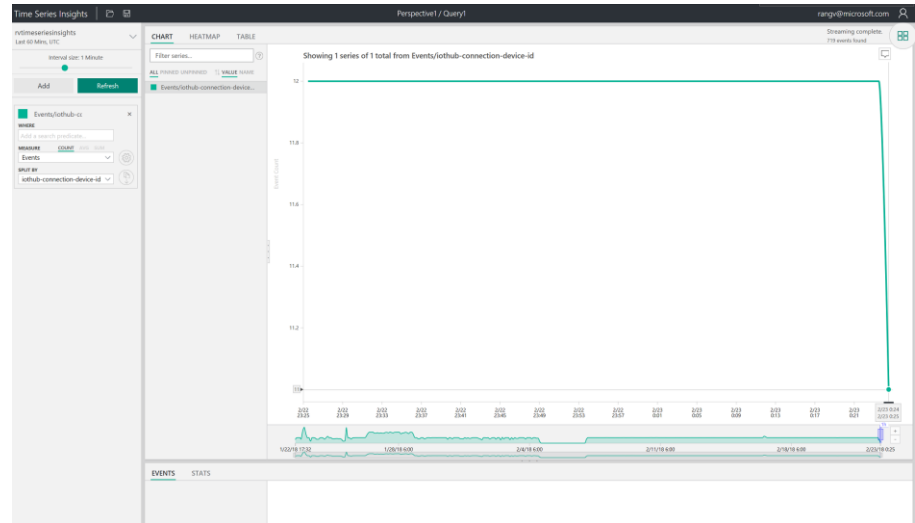


6. Go to TSI environment

Select TSI environment -> Overview -> click on Go to Environment



## 7. Visualize Time Series Data



## 8. Follow this blog to test out features of TSI with your data

<https://docs.microsoft.com/en-us/azure/time-series-insights/time-series-insights-explorer>

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