

In Azure search bar, search for **Event Hubs**

Select **Event Hubs**

The screenshot shows the Microsoft Azure portal interface. In the top navigation bar, the search bar contains the text "Event hubs". Below the search bar, the "Services" section is highlighted, showing various Azure services like SQL servers, Event Hubs, and Event Grid. The "Event Hubs" service is specifically highlighted with a red box. On the left sidebar, under "Resources", there is a list of recent resources, including "NetworkWatcher\_eastus". Under "Tools", there is a link to "Microsoft Learn" for "Event Hubs". The main content area displays documentation and quickstarts related to Event Hubs.

Select **Create**

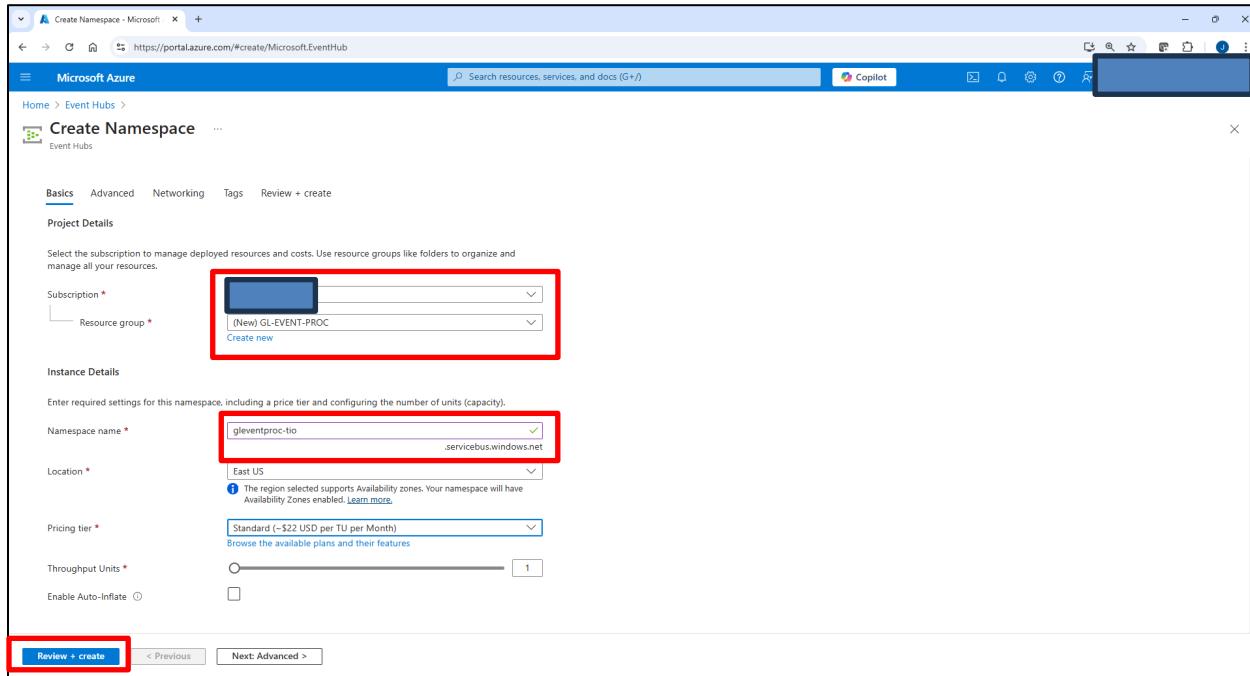
The screenshot shows the "Event Hubs" creation page in the Microsoft Azure portal. At the top, there is a "Create" button highlighted with a red box. Below the header, there are filter options for "Subscription equals all", "Resource group equals all", and "Location equals all". The main content area displays a message: "No event hubs namespaces to display" with a subtext explaining what an Event Hubs namespace is. At the bottom, there is a "Create event hubs namespace" button and a "Learn more about Event Hubs" link.

Select **Free Trial Subscription** (**Azure Subscription 1** is my only subscription)

Create new Resource Group: **GL-EVENT-PROC**

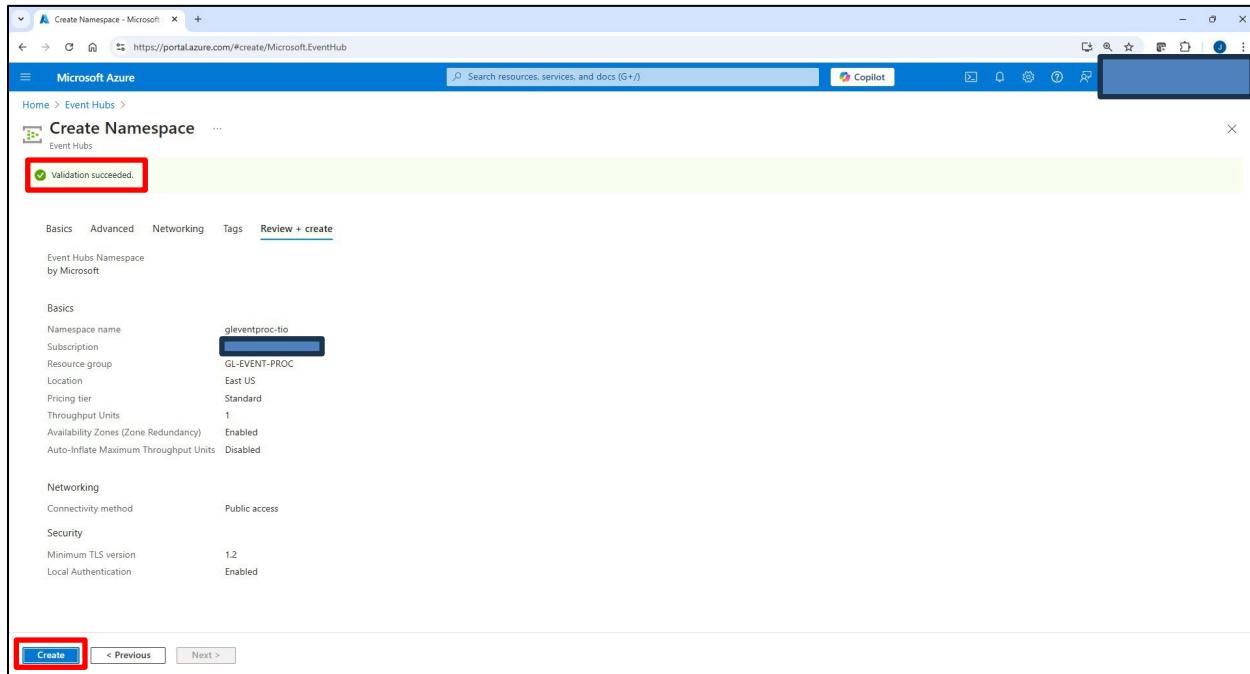
Namespace name: **gleventproc-tio** (**gleventproc** was not available)

Select **Review + Create**



Validation succeeded.

Select **Create**



Deployment is complete

In Azure search bar, enter **gleventproc-tio** (**gleventproc** was not available)

gleventproc-tio - Microsoft Azure

gleventproc-tio | Overview

Your deployment is complete

Deployment name : gleventproc-tio

Subscription : **gleventproc-tio**

Resource group : GL-EVENT-PROC

Deployment details

Next steps

Go to resource

Cost management

Microsoft Defender for Cloud

Free Microsoft tutorials

Work with an expert

https://portal.azure.com/#@joshphill@hotmail.onmicrosoft.com/resource/subscriptions/8d3e1cd2-8996-4289-91db-4960cbdf5066/resourceGroups/GL-EVENT-PROC/providers/Microsoft.EventHub/namespaces/gleventproc-tio

Select +Event Hub

gleventproc-tio

+ Event Hub

You can start generating test data or inspect data that has already been sent with the new Azure Event Hubs Data Explorer. Click on this message to try the feature!

Resource group (move) : GL-EVENT-PROC

Status : Active

Location : East US

Subscription (move)

Host name : gleventproc-tio.servicebus.windows.net

Tags (edit) : Add tags

NAMESPACE CONTENTS

0 EVENT HUBS

KAFKA SURFACE : ENABLED

ZONE REDUNDANCY : ENABLED

Show data for the last: 1 hour 6 hours 12 hours 1 day 7 days 30 days

Requests	Messages	Throughput
100	100	100
90	90	90
80	80	80
70	70	70
60	60	60
50	50	50
40	40	40
30	30	30
20	20	20
10	10	10
0	0	0

Name: **telecomeventhub**

Partition count: **2**

Message Retention: **1**

Microsoft Azure

Create Event Hub

Event Hubs

Basics Capture Review + create

**Event Hub Details**

Enter required settings for this event hub. [Learn more](#)

Name \*  ✓

Partition count

**Retention**

Configure retention settings for this Event Hub. [Learn more](#)

Cleanup policy

Retention time (hrs) \*  min. 1 hour, max. 168 hours (7days)

**Review + create** < Previous Next: Capture >

Capture: **Off**

Select **Review + Create**

Microsoft Azure

Create Event Hub

Event Hubs

**Capture** Review + create

**Capture Details**

Azure Event Hubs Capture enables you to automatically deliver the streaming data in Event Hubs to an Azure Blob storage or Azure Data Lake Store account of your choice, with the added flexibility of specifying a time or size interval. Setting up Capture is fast, there are no administrative costs to run it, and it scales automatically with Event Hubs throughput units. Event Hubs Capture is the easiest way to load streaming data into Azure, and enables you to focus on data processing rather than on data capture. [Learn more about capture.](#)

Capture   Off

**Review + create** < Previous Next: Review + create >

Validation succeeded.

Select Create

The screenshot shows the 'Create Event Hub' blade in the Microsoft Azure portal. At the top, there is a green banner with the text 'Validation succeeded.' followed by a checkmark icon. Below this, there are three tabs: 'Basics', 'Capture', and 'Review + create'. The 'Review + create' tab is selected. Under the 'Basics' section, the name 'telecomeventhub' is specified, along with a partition count of 2. In the 'Retention' section, the cleanup policy is set to 'Delete' and the retention time is 1 hour. Under the 'Capture' section, the capture status is 'Off'. At the bottom of the blade, there are three buttons: 'Create' (highlighted with a red box), '< Previous', and 'Next >'.

In Azure search bar, enter **Storage Accounts**

Select **Storage Accounts**

The screenshot shows the 'gleventproc-tio' Event Hubs Namespace overview page in the Microsoft Azure portal. On the left, there is a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Data Explorer, Events, Settings, Entities, Monitoring, Automation, and Help. The 'Overview' tab is selected. In the main content area, there is a summary card for the 'Event Hub' resource, showing 1 event hub, 1 Kafka surface, and 1 zone redundancy. Below this, there is a chart titled 'Requests' showing data for the last 1 hour, 6 hours, and 12 hours. At the top right, there is a search bar with the text 'storage accounts' entered. Below the search bar, there is a 'Services' section with a 'Storage accounts' link highlighted with a red box. To the right, there is a detailed view of a storage account configuration, including throughput settings ranging from 0 to 1000.

## Select Create

The screenshot shows the Microsoft Azure Storage accounts page. At the top left, there is a red box highlighting the '+ Create' button. The page title is 'Storage accounts'. Below the title, there are several filter options: 'Subscription equals all', 'Resource group equals all', 'Location equals all', and 'Add filter'. A message at the bottom says 'No storage accounts to display'.

Resource Group: **GL-EVENT-PROC**

Storage account name: **gleventtio**

Region: **Default**

Performance: **Standard**

Redundancy: **Locally-redundant storage (LRS)**

Select **Review + Create**

The screenshot shows the 'Create a storage account' form. The 'Basics' tab is selected. In the 'Project details' section, the 'Subscription' dropdown is set to 'GL-EVENT-PROC' and the 'Resource group' dropdown is set to 'GL-EVENT-PROC'. In the 'Instance details' section, the 'Storage account name' is 'gleventtio', 'Region' is '(US) East US', 'Primary service' is 'Select a primary service', 'Performance' is 'Standard: Recommended for most scenarios (general-purpose v2 account)' (which is checked), and 'Redundancy' is 'Locally-redundant storage (LRS)'. At the bottom, the 'Review + create' button is highlighted with a red box.

## Select Create

The screenshot shows the 'Create a storage account' wizard in the Microsoft Azure portal. The 'Review + create' tab is active. The configuration details are as follows:

Category	Setting
Subscription	Subscription
	Resource group
	Location
	Storage account name
Primary service	Performance
	Replication
	Locally-redundant storage (LRS)
Advanced	Enable hierarchical namespace
	Enable SFTP
	Enable network file system v3
	Allow cross-tenant replication
	Access tier
	Enable large file shares
Security	Secure transfer
	Blob anonymous access
	Allow storage account key access

At the bottom of the page, there are three buttons: 'Previous', 'Next', and a prominent blue 'Create' button, which is highlighted with a red box.

## Select Go to resource

The screenshot shows the deployment overview for 'gleventtio\_1735576975081'. The deployment status is 'complete'. The deployment details are:

- Deployment name: gleventtio\_1735576975081
- Subscription: Azure subscription 1
- Resource group: GL-EVENT-PROC

The 'Next steps' section contains a single item:

- Go to resource

A red box highlights the 'Go to resource' button. To the right of the main content area, there are several promotional cards:

- Cost Management**: Get notified to stay within your budget and prevent unexpected charges on your bill. [Set up cost alerts >](#)
- Microsoft Defender for Cloud**: Secure your apps and infrastructure. [Go to Microsoft Defender for Cloud >](#)
- Free Microsoft tutorials**: Start learning today. [Start learning today >](#)
- Work with an expert**: Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. [Find an Azure expert >](#)

## Expand Data Storage

### Select Containers

The screenshot shows the Microsoft Azure Storage Account Overview page for the 'gleventtio' storage account. The left sidebar navigation menu is visible, with the 'Containers' option under the 'Data storage' section highlighted by a red box. The main content area displays the 'Essentials' and 'Properties' tabs. The 'Essentials' tab provides summary information about the storage account, including its resource group (GL-EVENT-PROC), location (eastus), subscription ID, disk state, and tags. The 'Properties' tab shows detailed configuration settings for the Blob service, such as hierarchical namespace, default access tier (Hot), blob anonymous access, blob soft delete, container soft delete, versioning, change feed, NFS v3, and allow cross-tenant replication. It also includes sections for Security, Networking, and File service.

### Select +Container

The screenshot shows the Microsoft Azure Storage Account Containers page for the 'gleventtio' storage account. The left sidebar navigation menu is visible, with the 'Containers' option under the 'Data storage' section highlighted by a red box. The top navigation bar includes a search bar, a '+ Container' button, and other navigation links like 'Change access level', 'Restore containers', 'Refresh', 'Delete', and 'Give feedback'. A search bar at the top allows searching for containers by prefix. Below the search bar is a table listing existing containers. The table columns include Name, Last modified, Anonymous access level, and Lease state. A single container named 'Slogs' is listed, with its details: Last modified 12/30/2024, 10:43:59 AM, Anonymous access level Private, and Lease state Available. There is also a 'Show deleted containers' link.

Name: **telecomoutputstorage**

Select Create

The screenshot shows the Microsoft Azure portal interface. On the left, there's a navigation sidebar with various options like Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser, Storage Mover, Partner solutions, and Data storage. Under Data storage, the 'Containers' option is selected. The main area shows a list of existing containers: 'Slogs' (Last modified: 12/30/2024, 10:43:59 AM, Private). To the right, a 'New container' blade is open. It has a 'Name' field containing 'telecomoutputstorage' (highlighted with a red box). Below it is an 'Anonymous access level' dropdown set to 'Private (no anonymous access)'. A note says 'The access level is set to private because anonymous access is disabled on this storage account.' At the bottom of the blade is a large blue 'Create' button (also highlighted with a red box).

In Azure search bar, enter **Stream Analytics Jobs**

Select **Stream Analytics jobs**

The screenshot shows the Microsoft Azure portal interface. The search bar at the top contains the text 'stream analytics jobs' (highlighted with a red box). Below the search bar, the results are displayed under the 'Services' tab. The first result is 'Stream Analytics jobs' (highlighted with a red box). Other results include 'Stream Analytics clusters', 'Analysis Services', 'Change Analysis', and 'Marketplace'. The left sidebar is identical to the previous screenshot, showing the 'Containers' section under 'Data storage'. The main content area shows the same list of containers ('Slogs', 'telecomoutputstorage') as the previous screenshot.

## Select +Create

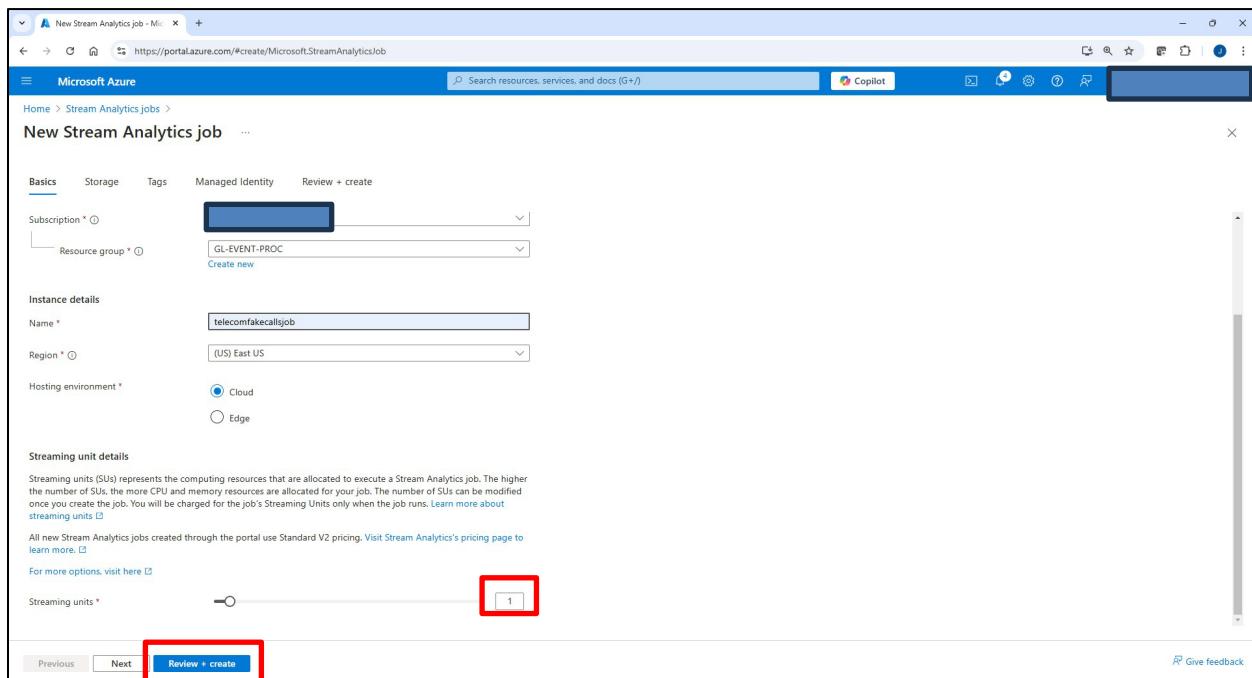
The screenshot shows the Microsoft Azure Stream Analytics jobs page. At the top left, there is a red box highlighting the '+ Create' button. The page displays a message: 'No stream analytics jobs to display'. Below this, there is a brief description: 'Process and analyze real-time data streams from multiple sources with a scalable and fully managed serverless analytics service on Azure.' A blue 'Create stream analytics job' button is centered below the description. The page includes a 'Learn more' link and a 'Give feedback' link at the bottom right.

Subscription: [REDACTED]  
Resource Group: **GL-EVENT-PROC**  
Job name: **telecomfakecallsjob**  
Hosting environment: **Cloud**

The screenshot shows the 'New Stream Analytics job' creation wizard. The 'Basics' tab is selected. In the 'Project details' section, the 'Subscription' dropdown is set to [REDACTED] and the 'Resource group' dropdown is set to GL-EVENT-PROC. Both of these fields are highlighted with a red box. In the 'Instance details' section, the 'Name' field contains 'telecomfakecallsjob', the 'Region' dropdown is set to '(US) East US', and the 'Hosting environment' radio button is selected for 'Cloud'. The 'Streaming unit details' section is visible at the bottom. Navigation buttons 'Previous', 'Next', and 'Review + create' are at the bottom left, and a 'Give feedback' link is at the bottom right.

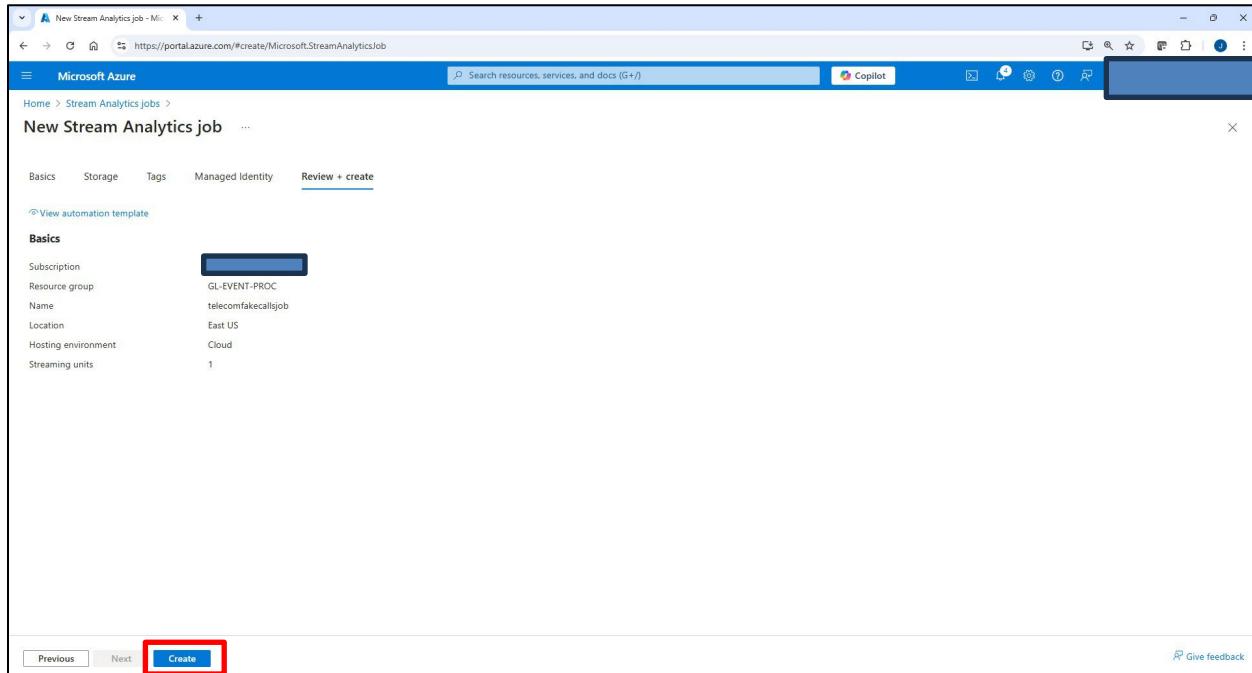
Streaming units: 1

### Select Review + Create



The screenshot shows the 'New Stream Analytics job' creation page in the Microsoft Azure portal. The 'Review + create' tab is selected. The 'Streaming units' input field, which contains the value '1', is highlighted with a red box. Other fields visible include 'Subscription' (selected), 'Resource group' ('GL-EVENT-PROC'), 'Name' ('telecomfakecalljob'), 'Region' ('(US) East US'), 'Hosting environment' ('Cloud'), and a note about streaming units.

### Select Create



The screenshot shows the 'New Stream Analytics job' creation page in the Microsoft Azure portal. The 'Review + create' tab is selected. The 'Create' button at the bottom of the page is highlighted with a red box. The page displays the summary of the job configuration, including the subscription, resource group, name, location, hosting environment, and streaming units.

## Select Go to resource

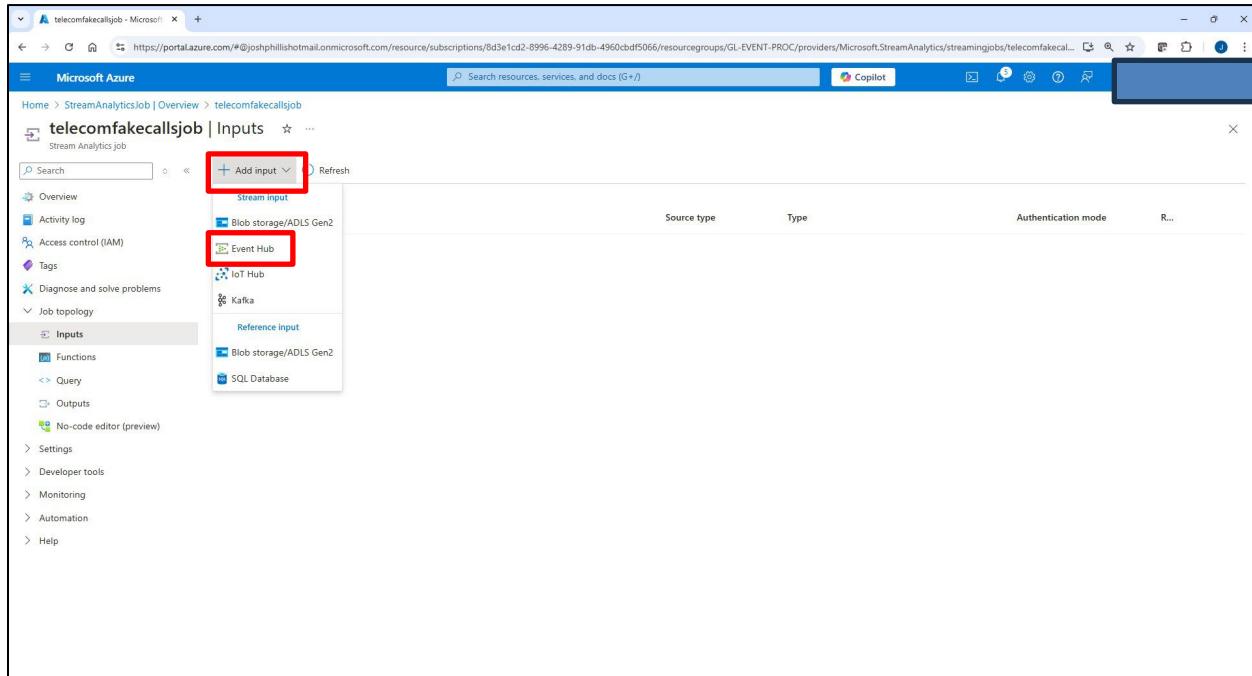
The screenshot shows the Microsoft Azure StreamAnalyticsJob Overview page. At the top, it says "Your deployment is complete". Below that, it lists the deployment name as "StreamAnalyticsJob", subscription as "StreamAnalyticsJob", and resource group as "GL-EVENT-PROC". To the right, there's a "Cost management" section with a green dollar sign icon, a "Microsoft Defender for Cloud" section with a shield icon, and a "Free Microsoft tutorials" section. A large blue "Go to resource" button is highlighted with a red box.

## Expand Job topology

### Select Inputs

The screenshot shows the Microsoft Azure StreamAnalyticsJob Overview page for the "telecomfakecallsjob". In the left sidebar, under "Job topology", the "Inputs" section is highlighted with a red box. The main pane displays job details like Resource group (GL-EVENT-PROC), Location (East US), Status (Created), and Pricing plan (StandardV2). Below the job details, there are sections for "Query editor" and "No-code editor (preview)". A "Get started" button is visible at the bottom of the main pane.

## Expand +Add input Select Event Hub



The screenshot shows the Microsoft Azure Stream Analytics job overview page for 'telecomfakecallsjob'. In the 'Inputs' section, the '+ Add input' button is highlighted with a red box. Below it, the 'Event Hub' option under the 'Stream input' category is also highlighted with a red box.

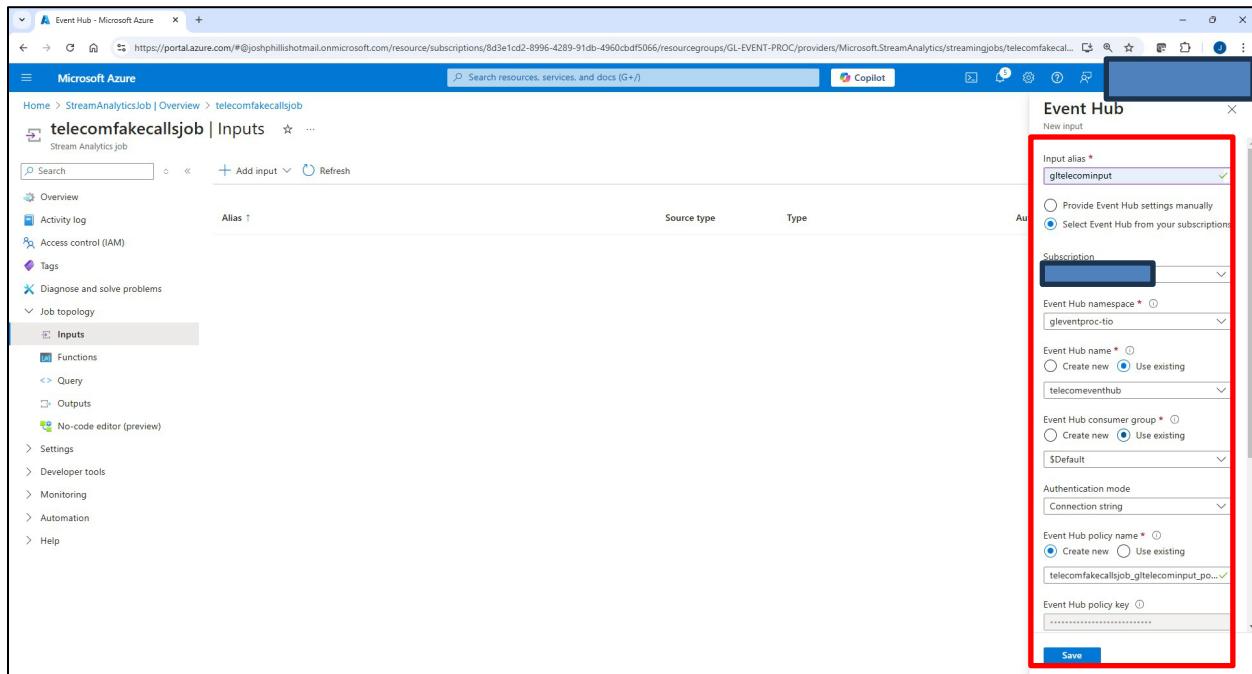
Input alias: **gltelecominput**

Event hub namespace: **gleventproc-tio**

Event hub name: **telecomeventhub**

Event Hub consumer group, select **Use Existing, \$Default** displays

Select **Save**



The screenshot shows the Microsoft Azure Stream Analytics job overview page for 'telecomfakecallsjob'. On the right side, an 'Event Hub' configuration dialog is open, which is highlighted with a large red box. The dialog allows setting up a new input with fields for 'Input alias' (gltelecominput), 'Event Hub namespace' (gleventproc-tio), 'Event Hub name' (telecomeventhub), 'Event Hub consumer group' (\$Default), 'Authentication mode' (Connection string), and 'Event Hub policy name' (telecomfakecallsjob\_gltelecominput\_p...). The 'Use existing' radio button is selected for the event hub name and consumer group.

## Select Outputs

The screenshot shows the Azure Stream Analytics job 'telecomfakecallsjob' in the Azure portal. The 'Inputs' section is currently selected. A red box highlights the 'Outputs' link in the left sidebar. At the top right, there is a message: 'Successful connection test' with the subtext 'Connection to input "gitelecominput" succeeded.'

## Expand +Add output

Select Blob storage/ADLS Gen2

The screenshot shows the 'Outputs' section of the Azure Stream Analytics job 'telecomfakecallsjob'. The '+ Add output' button and the 'Outputs' link in the left sidebar are highlighted with red boxes. A dropdown menu is open, showing various output options, with 'Blob storage/ADLS Gen2' highlighted.

Output alias: **gltelecomoutput**

Subscription: [REDACTED]

Storage account: **gleventtio**

Container: **Use existing, select telecomoutputstorage**

Authentication mode: **Connection string**

Select Save

The screenshot shows the Microsoft Azure Stream Analytics job 'telecomfakecallsjob' Outputs page. On the left, there's a sidebar with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Job topology (Inputs, Functions, Query, Outputs), Settings, Developer tools, Monitoring, Automation, and Help. The main area shows a table with one row for the 'gltelecomoutput' alias. The 'Outputs' section is expanded, showing a configuration pane with the following fields:

- Output alias: **gltelecomoutput**
- Type: Blob storage/ADLS Gen2
- Subscription: [REDACTED] (selected)
- Storage account: **gleventtio**
- Container: **Use existing, select telecomoutputstorage**
- Authentication mode: **Connection string**
- Storage account key: [REDACTED]
- Event serialization format: **JSON**
- Format: **Line separated**
- Encoding: **UTF-8**

A blue 'Save' button is at the bottom of the configuration pane.

## Select Query

The screenshot shows the Microsoft Azure Stream Analytics job 'telecomfakecallsjob' Outputs page. The sidebar on the left is identical to the previous screenshot. The main area shows the same table with the 'gltelecomoutput' alias. The 'Outputs' section is expanded, and the 'Query' link in the sidebar is highlighted with a red box. The table row for 'gltelecomoutput' includes columns for Alias, Type, Authentication mode, and Resource, with the Resource column showing the 'gleventtio' storage account icon.

Enter query as pictured below

Select Save Query

Select Overview

The screenshot shows the Microsoft Azure Stream Analytics job overview page for 'telecomfakecallsjob'. The left sidebar has 'Overview' selected. The main area shows the query editor with a red box highlighting the query text:

```
1 SELECT System.Timestamp AS WindowEnd, COUNT(*) AS FraudulentCalls
2 INTO "gitelecomoutput"
3 FROM "gitelecominput" CS1 TIMESTAMP BY CallRectime
4 JOIN "gitelecominput" CS2 TIMESTAMP BY CallRectime
5 ON CS1.CallingIMSI = CS2.CallingIMSI
6 AND DATEDIFF(ss, CS1, CS2) BETWEEN 1 AND 5
7 WHERE CS1.SwitchNum != CS2.SwitchNum
8 GROUP BY TumblingWindow(Duration(second, 1))
```

Below the query editor, there are tabs for 'Input preview', 'Test results', and 'Job simulation (preview)'. A note says 'While sampling data, no data was received from '2' partitions.'

Select Start job

The screenshot shows the Microsoft Azure Stream Analytics job overview page for 'telecomfakecallsjob'. The left sidebar has 'Overview' selected. The top navigation bar has 'Start job' highlighted with a red box.

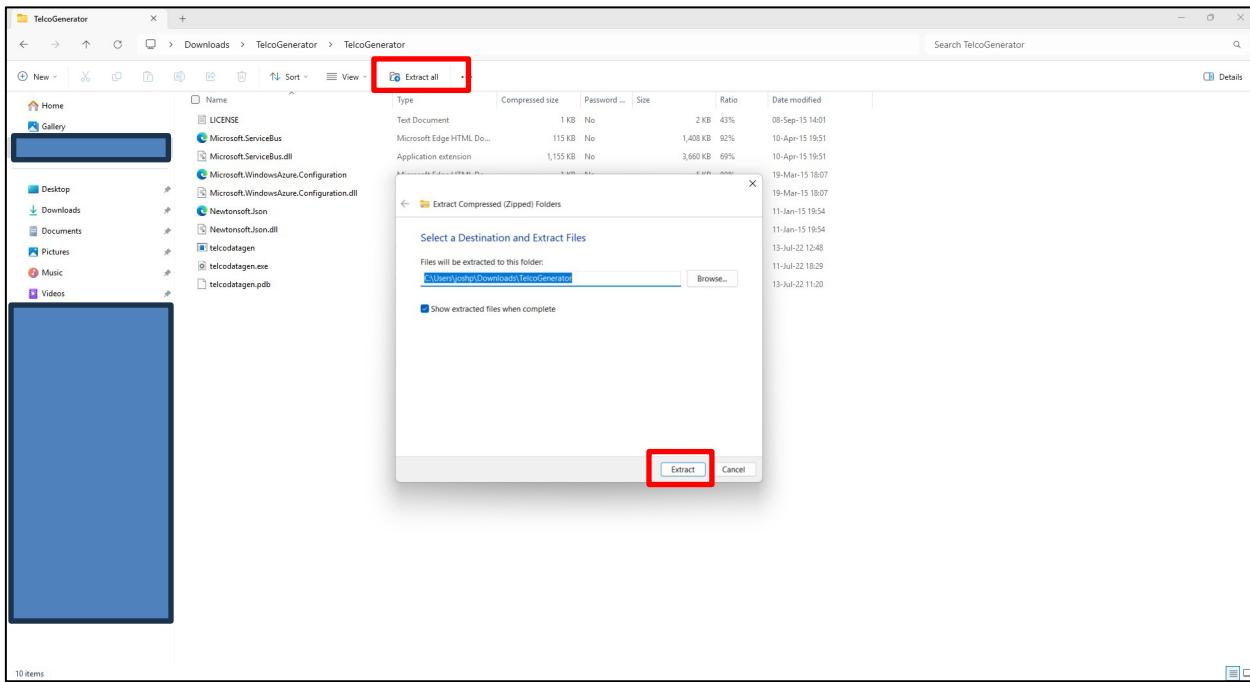
## Select Start

The screenshot shows the Microsoft Azure Stream Analytics job overview page for a job named 'telecomfakecallsjob'. The left sidebar contains navigation links like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Job topology, Inputs, Functions, Query, Outputs, No-code editor (preview), Settings, Developer tools, Monitoring, Automation, and Help. The main content area displays job details such as Resource group (GL-EVENT-PROC), Location (East US), Status (Created), Subscription (gitelecominput), Subscription ID, Pricing plan (StandardV2 (manage)), and Tags (Add tags). Below these details are sections for Inputs (1), Query, Outputs (1), and Functions (0). On the right, a 'Start job' panel is open, showing a message: 'You have not configured the diagnostic settings for this job yet. Add diagnostic settings in the diagnostic settings pane.' It includes fields for Streaming units (1), Environment (Standard), Job output start time (Now), and a 'Start' button which is highlighted with a red box.

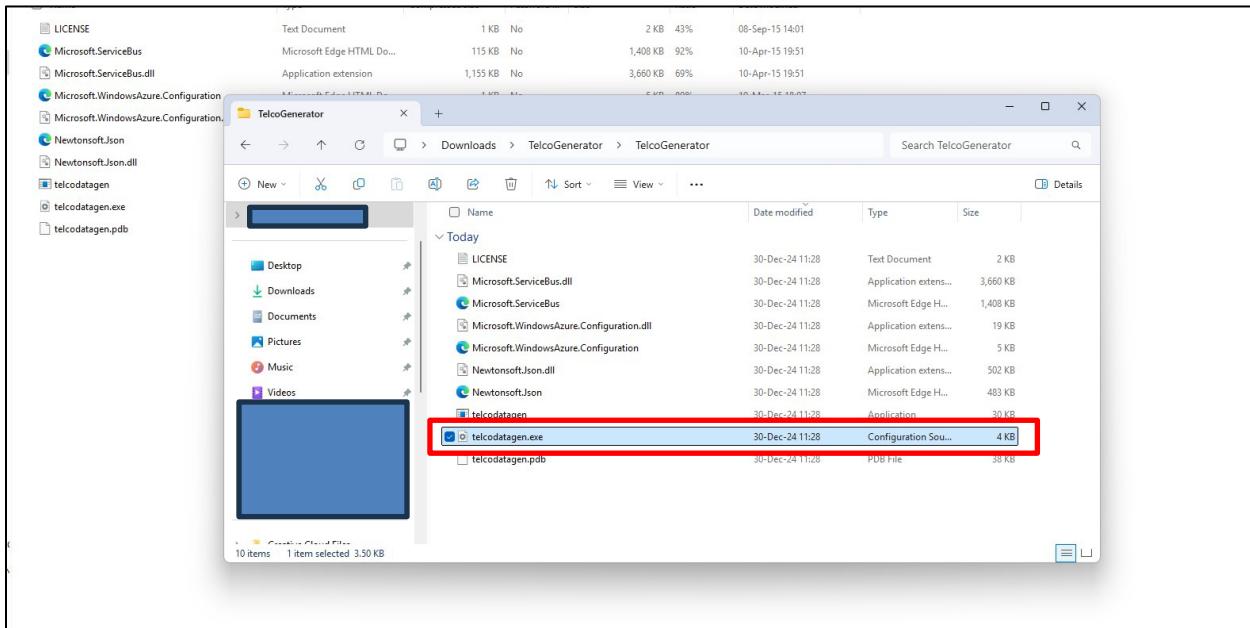
Download sample application from: <https://aka.ms/asatelcodatagen>

The screenshot shows a Windows File Explorer window with a search bar at the top containing 'Search TelcoGenerator'. The ribbon menu has tabs for Home, New, Open, Save, Copy, Paste, Sort, View, Extract all, and Details. The left sidebar shows a navigation tree with Home and Gallery selected. The main content area shows a file list for a folder named 'TelcoGenerator'. The 'Details' tab is selected in the ribbon. A red box highlights the 'Start' button in the ribbon menu.

## Extract all from the file



## Double click on telcodatagen.exe file



Replace \*\*\*ENTER YOUR EVENT HUB NAME\*\*\* with telecomeventhub

'."/>

```

<configuration>
  <appSettings>
    <add key="EventHubName" value="***ENTER YOUR EVENT HUB NAME***"/>
    <add key="Microsoft.ServiceBus.ConnectionString" value="enter your KEY***"/>
  </appSettings>
  <startup><supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.7.2"/></startup>
</configuration>

```

In this extension section we are introducing all known service bus extensions. User can remove the ones they don't need. -->

```

<behaviorExtensions>
  <add name="connectionStatusBehavior" type="Microsoft.ServiceBus.Configuration.ConnectionStatusElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="transportClientEndpointBehavior" type="Microsoft.ServiceBus.Configuration.TransportClientEndpointBehaviorElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="ServiceBusRegistrySettings" type="Microsoft.ServiceBus.Configuration.ServiceRegistrySettingsElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
</behaviorExtensions>
<bindingElementExtensions>
  <add name="netMessagingTransport" type="Microsoft.ServiceBus.Messaging.Configuration.NetMessagingTransportExtensionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="tcpRelayTransport" type="Microsoft.ServiceBus.Configuration.TcpRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="basicHttpRelayBinding" type="Microsoft.ServiceBus.Configuration.BasicHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="httpsRelayTransport" type="Microsoft.ServiceBus.Configuration.HttpsRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="httpsRelayTransport" type="Microsoft.ServiceBus.Configuration.HttpsRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="oneWayRelayTransport" type="Microsoft.ServiceBus.Configuration.OneWayRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="oneWayRelayTransport" type="Microsoft.ServiceBus.Configuration.RelayOneWayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="basicHttpRelayBinding" type="Microsoft.ServiceBus.Configuration.BasicHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="ws2007HttpRelayBinding" type="Microsoft.ServiceBus.Configuration.Ws2007HttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="ws2007HttpRelayBinding" type="Microsoft.ServiceBus.Configuration.Ws2007HttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="netTcpRelayBinding" type="Microsoft.ServiceBus.Configuration.NetTcpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="netOneWayRelayBinding" type="Microsoft.ServiceBus.Configuration.NetOneWayRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="netEventRelayBinding" type="Microsoft.ServiceBus.Configuration.NetEventRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
  <add name="netMessagingBinding" type="Microsoft.ServiceBus.Messaging.Configuration.NetMessagingBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35"/>
</bindingElementExtensions>

```

In Azure search bar, enter gleventproc-tio

Select gleventproc-tio

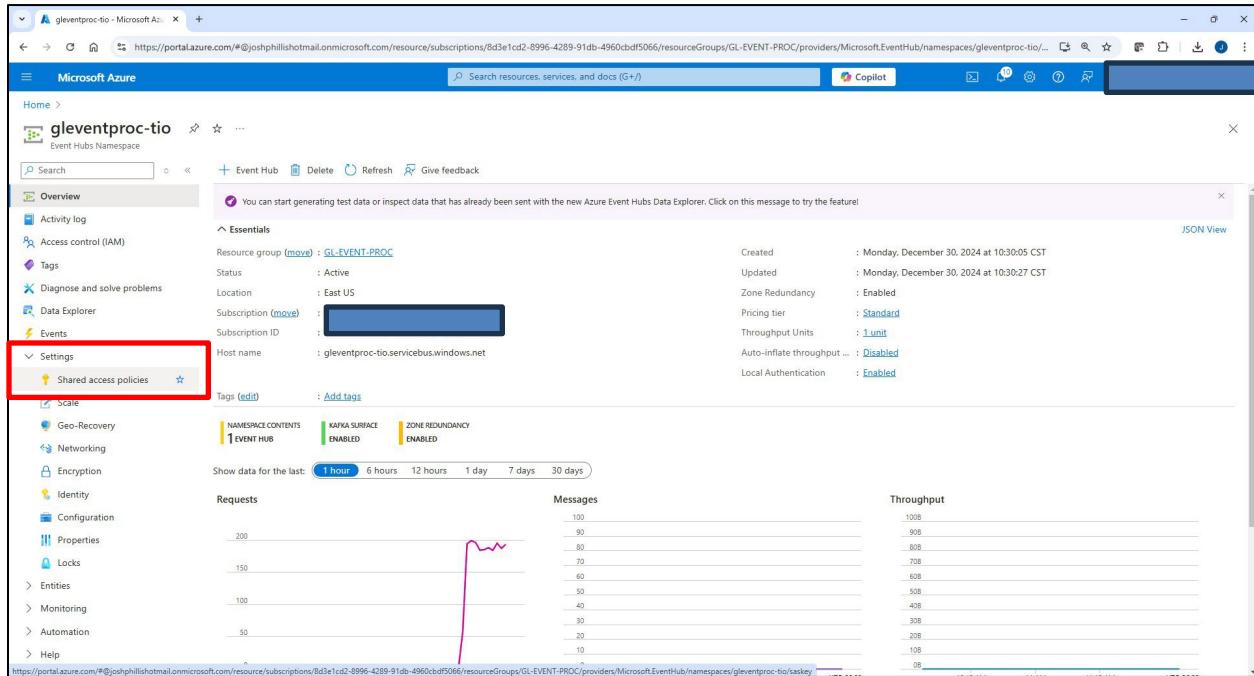
gleventproc

gleventproc-tio

Resource group	Subscription	Created	Started
gleventproc-tio	gleventproc	: Monday, December 30, 2024 10:59 AM	: Monday, December 30, 2024 11:20 AM

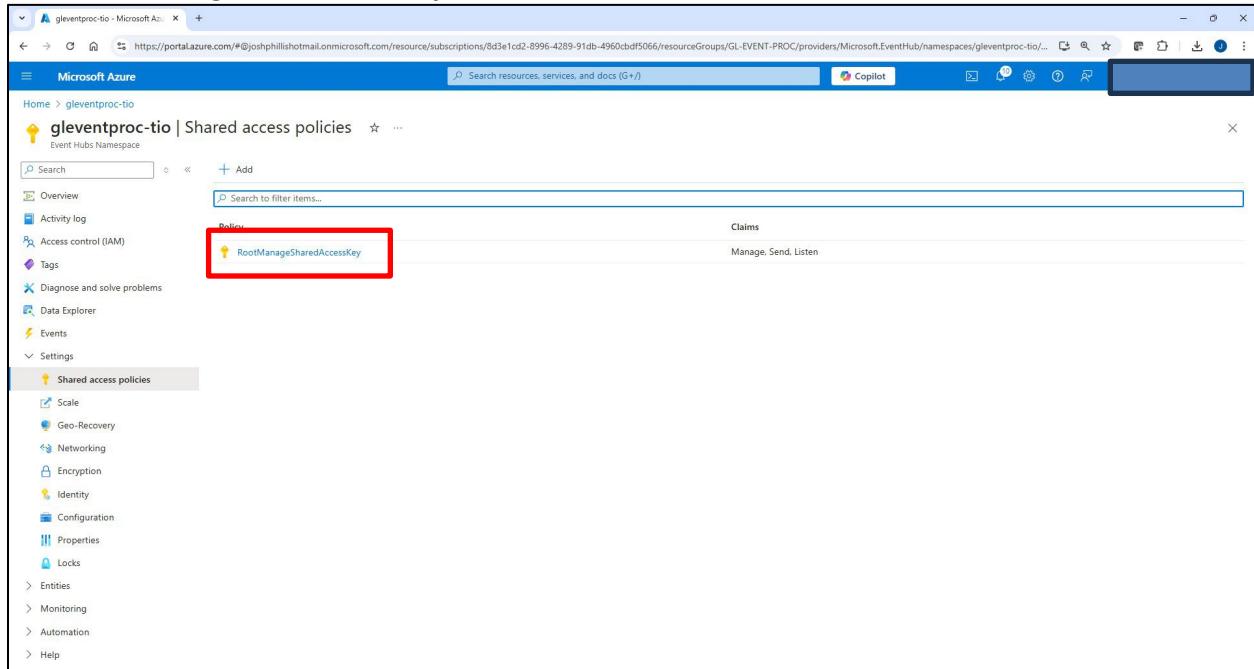
## Expand Settings

### Select Shared access policies



The screenshot shows the Microsoft Azure portal interface for an Event Hubs Namespace named 'gleventproc-tio'. The 'Settings' section is expanded, and the 'Shared access policies' link is highlighted with a red box. The main pane displays various configuration details such as Resource group (GL-EVENT-PROC), Status (Active), Location (East US), and Pricing tier (Standard). Below this, there's a chart showing Requests, Messages, and Throughput over time. At the bottom, there's a link to 'Add tags'.

### Select RootManageSharedAccessKey



The screenshot shows the 'Shared access policies' page for the 'gleventproc-tio' namespace. A specific policy named 'RootManageSharedAccessKey' is selected and highlighted with a red box. The page includes a search bar, a 'Claims' section with 'Manage. Send. Listen' options, and a list of other shared access policies.

## Copy Connection string-primary key

SAS Policy: RootManageSharedAccessKey

Manage Send Listen

Primary key [REDACTED] +H5xbM=

Secondary key [REDACTED] AEhL35hFw=

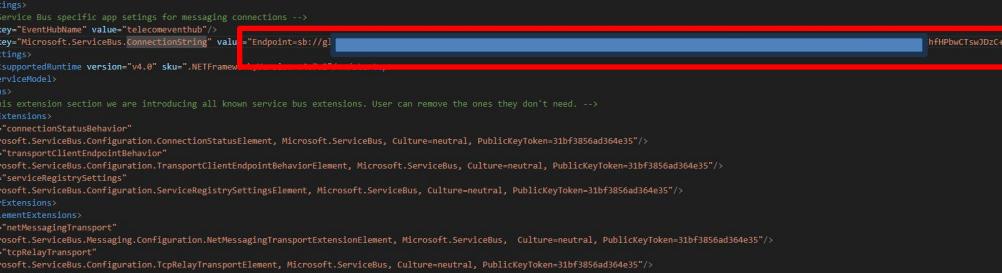
Connection string-primary key  
Endpoint=sb://[REDACTED].servicebus.windows.net/RootM... Copied

SAS Policy ARM ID /subscriptions/[REDACTED]/resourceGroups/[REDACTED]/providers/Microsoft.EventHub/namespaces/[REDACTED]/eventHubs/[REDACTED]

Show AMQP connection strings

## Paste in \*\*\*ENTER YOUR KEY\*\*\*

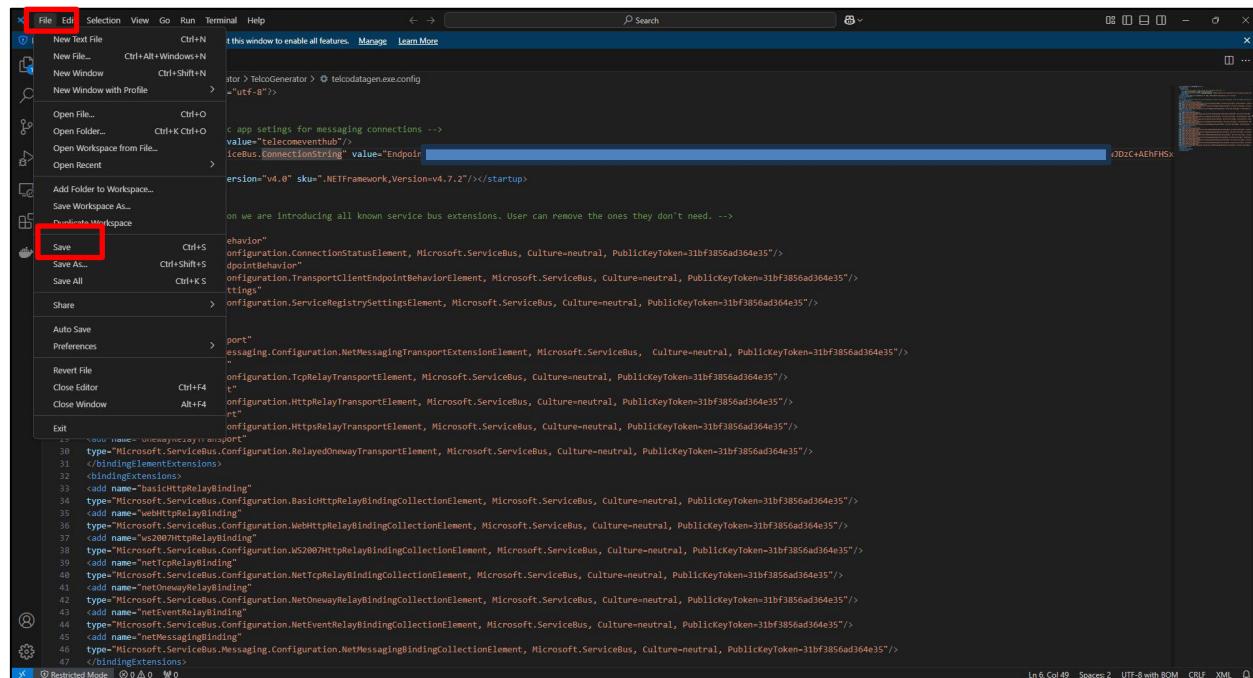
```
C:\> Users>joshp>Downloads>TelcoGenerator>TelcoGenerator> telcodatagen.exe.config
 1 <?xml version="1.0" encoding="utf-8"?>
 2 <configuration>
 3   <!-- Service Bus specific app settings for messaging connections -->
 4   <add key="EventhubName" value="***ENTER YOUR EVENT HUB NAME***" />
 5   <add key="Microsoft.ServiceBus.ConnectionString" value="***ENTER YOUR KEY***" />
 6 </appSettings>
 7 <startup>
 8   <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.7.2" />
 9 </startup>
10 <system.serviceModel>
11   <extensions>
12     <!-- In this extension section we are introducing all known service bus extensions. User can remove the ones they don't need. -->
13     <add name="connectionStatusBehavior" />
14     <type="Microsoft.ServiceBus.Configuration.ConnectionStatusElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
15     <add name="httpRelayTransportBehavior" />
16     <type="Microsoft.ServiceBus.Configuration.TransportClientEndpointBehaviorElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
17     <add name="ServiceRegistrySettings" />
18     <type="Microsoft.ServiceBus.Configuration.ServiceRegistrySettingsElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
19     </behaviorExtensions>
20     <bindingElementExtensions>
21       <add name="netMessagingTransport" />
22       <type="Microsoft.ServiceBus.Messaging.Configuration.NetMessagingTransportExtensionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
23       <add name="basicHttpRelayTransport" />
24       <type="Microsoft.ServiceBus.Configuration.TcpRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
25       <add name="httpRelayTransport" />
26       <type="Microsoft.ServiceBus.Configuration.HttpRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
27       <add name="httpsRelayTransport" />
28       <type="Microsoft.ServiceBus.Configuration.HttpsRelayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
29       <add name="oneWayRelayTransport" />
30       <type="Microsoft.ServiceBus.Configuration.RelayedOneWayTransportElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
31     </bindingElementExtensions>
32     <bindingExtensions>
33       <add name="basicHttpRelayBinding" />
34       <type="Microsoft.ServiceBus.Configuration.BasicHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
35       <add name="webHttpRelayBinding" />
36       <type="Microsoft.ServiceBus.Configuration.WebHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
37       <add name="ws2009HttpRelayBinding" />
38       <type="Microsoft.ServiceBus.Configuration.Ws2009HttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
39       <add name="netTcpRelayBinding" />
40       <type="Microsoft.ServiceBus.Configuration.NetTcpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
41       <add name="netOneWayRelayBinding" />
42       <type="Microsoft.ServiceBus.Configuration.NetOneWayRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
43       <add name="netEventRelayBinding" />
44       <type="Microsoft.ServiceBus.Configuration.NetEventRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
45       <add name="netMessagingBinding" />
46       <type="Microsoft.ServiceBus.Messaging.Configuration.NetMessagingBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35" />
47     </bindingExtensions>
```



```
C:\Users\josip>Downloads > TelcoGenerator > TelcoGenerator > telcodatagen.exe.config
1  <?xml version="1.0" encoding="utf-8"?>
2  <configuration>
3      <appSettings>
4          <add key="EventHubName" value="telecomeventhub"/>
5          <add key="Microsoft.ServiceBus.ConnectionString" value="Endpoint=sb://g1.hfHPbwCTswJDc+AEnFHSx</add>
6      </appSettings>
7  </configuration>
8  <startup><supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.0" />
9  </startup>
10 <system.serviceModel>
11     <extensions>
12         <!-- In this extension section we are introducing all known service bus extensions. User can remove the ones they don't need. -->
13         <behaviors>
14             <add name="connectionStatusBehavior">
15                 <type>Microsoft.ServiceBus.Configuration.ConnectionStatusElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
16             </add>
17             <add name="transportClientEndpointBehavior">
18                 <type>Microsoft.ServiceBus.Configuration.TransportClientEndpointBehaviorElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
19             </add>
20             <add name="serviceRegistrySettings">
21                 <type>Microsoft.ServiceBus.Configuration.ServiceRegistrySettingsElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
22             </add>
23             <behaviorExtensions>
24                 <add name="bindingElementExtensions" />
25                 <add name="basicHttpRelayTransport" />
26                 <add name="tcpRelayTransport" />
27                 <add name="httpRelayTransport" />
28                 <add name="httpsRelayTransport" />
29                 <add name="netTcpRelayTransport" />
30                 <add name="netOnewayRelayTransport" />
31             </behaviorExtensions>
32             <bindingExtensions>
33                 <add name="basicHttpRelayBinding" />
34                 <type>Microsoft.ServiceBus.Configuration.BasicHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
35                 <add name="webHttpRelayBinding" />
36                 <type>Microsoft.ServiceBus.Configuration.WebHttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
37                 <add name="netOnewayRelayBinding" />
38                 <type>Microsoft.ServiceBus.Configuration.NS2007HttpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
39                 <add name="netTcpRelayBinding" />
40                 <type>Microsoft.ServiceBus.Configuration.NetTcpRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
41                 <add name="netOnewayRelayBinding" />
42                 <type>Microsoft.ServiceBus.Configuration.NetOnewayRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
43                 <add name="netEventRelayBinding" />
44                 <type>Microsoft.ServiceBus.Configuration.NetEventRelayBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
45                 <add name="netMessagingBinding" />
46                 <type>Microsoft.ServiceBus.Messaging.Configuration.NetMessagingBindingCollectionElement, Microsoft.ServiceBus, Culture=neutral, PublicKeyToken=31bf3856ad364e35</type>
47             </bindingExtensions>
```

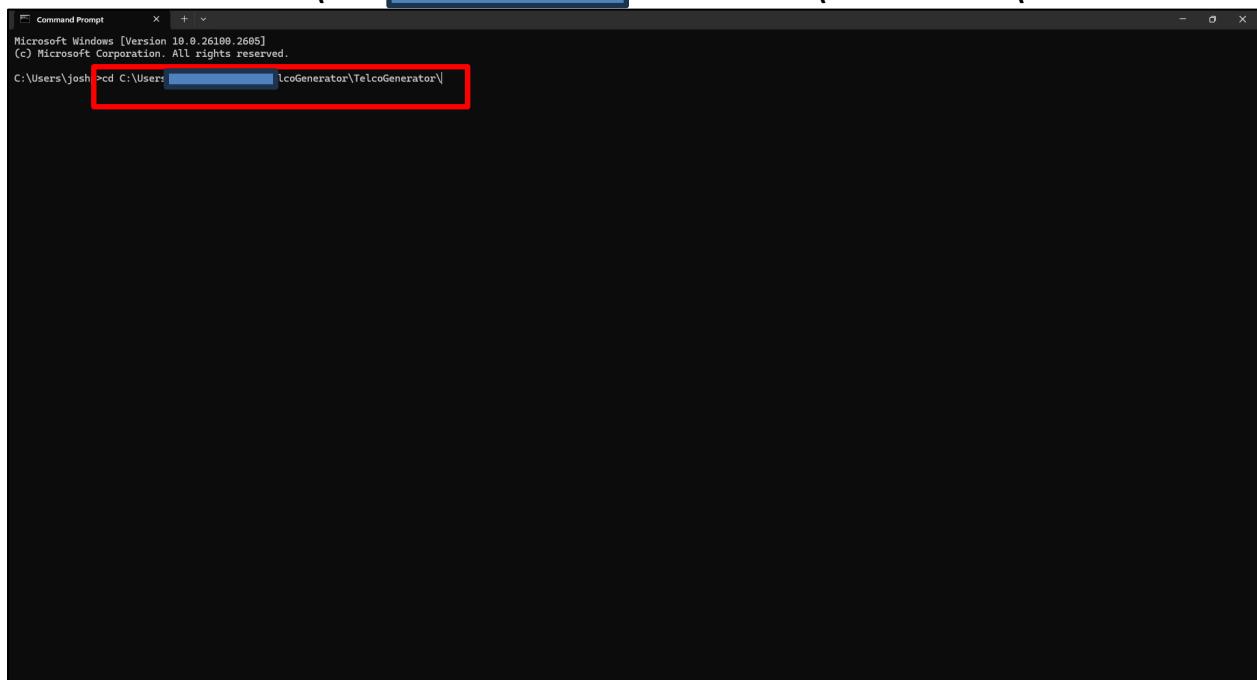
Select File

Select Save



Open a Command Prompt window

Enter the command: **cd C:\Users\██████████\TelcoGenerator\TelcoGenerator\**



A screenshot of a Microsoft Windows Command Prompt window. The title bar says "Command Prompt". The window shows the following text:

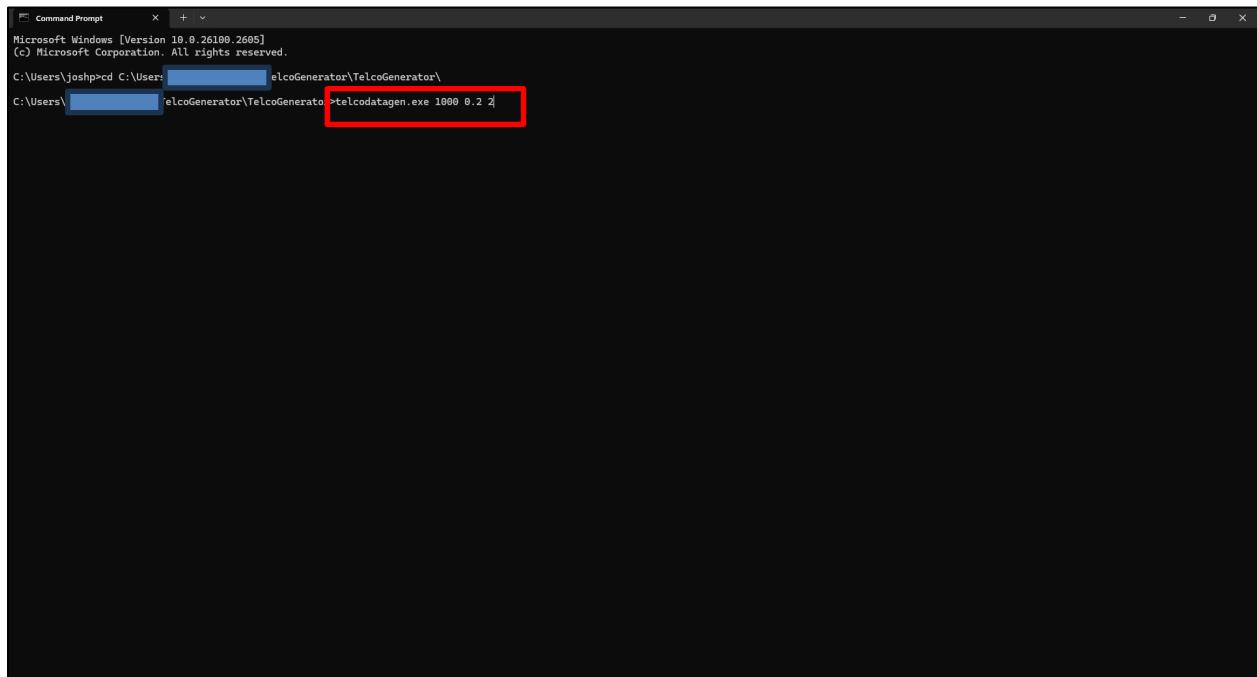
```
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.

C:\Users\josh>cd C:\Users\██████████\TelcoGenerator\TelcoGenerator\
```

The command `cd C:\Users\██████████\TelcoGenerator\TelcoGenerator\` is highlighted with a red rectangular box.

Enter the command **telcodatagen.exe 1000 0.2 2**

Press **Enter**



A screenshot of a Microsoft Windows Command Prompt window. The title bar says "Command Prompt". The window shows the following text:

```
Microsoft Windows [Version 10.0.26100.2605]
(c) Microsoft Corporation. All rights reserved.

C:\Users\josh>cd C:\Users\██████████\TelcoGenerator\TelcoGenerator\
C:\Users\██████████\TelcoGenerator\TelcoGenerator>telcodatagen.exe 1000 0.2 2
```

The command `telcodatagen.exe 1000 0.2 2` is highlighted with a red rectangular box.

## Stream output is running

In Azure search bar, enter **Storage accounts**

## Select Storage accounts

The screenshot shows the Microsoft Azure portal interface. At the top, there's a search bar with the text "storage accounts" highlighted by a red box. Below the search bar, a navigation bar has tabs for "All", "Services (26)", "Marketplace (3)", and "More (4)". The "Services" tab is selected. Under the "Services" tab, a list of services is shown, with "Storage accounts" highlighted by a red box. To the right of the service list, there's a "Copilot" button and some other icons. On the far right, there's a card titled "SAS Policy: RootManageSharedAccessKey" with various options like "Manage", "Send", and "Listen". Below this card, there are fields for "Primary key" and "Secondary key", both of which have their values redacted with blue bars. There are also fields for "Connection string-primary key" and "Connection string-secondary key", each with a redacted value. At the bottom of the card, there's a checkbox for "Show AMQP connection strings".

## Select geventtio

The screenshot shows the Microsoft Azure Storage accounts page. A single storage account, 'geventtio', is listed. The account is of type 'Storage account' and kind 'StorageV2'. It is located in 'East US' and belongs to the resource group 'GL-EVENT-PROC'. The 'Subscription' dropdown is highlighted with a red box.

## Select Containers

The screenshot shows the 'Containers' blade for the 'geventtio' storage account. The 'Containers' link in the left sidebar is highlighted with a red box. The main pane displays container configuration details, including 'Hierarchical namespace' (Disabled), 'Default access tier' (Hot), 'Blob anonymous access' (Disabled), 'Blob soft delete' (Enabled (7 days)), 'Container soft delete' (Enabled (7 days)), 'Versioning' (Disabled), 'Change feed' (Disabled), 'NFS v3' (Disabled), 'Allow cross-tenant replication' (Disabled), 'Storage tasks assignments' (None), 'Large file share' (Enabled), 'Require secure transfer for REST API operations' (Enabled), 'Storage account key access' (Enabled), 'Minimum TLS version' (Version 1.2), 'Infrastructure encryption' (Disabled), 'Allow access from' (All networks), 'Private endpoint connections' (0), 'Network routing' (Microsoft network routing), 'Access for trusted Microsoft services' (Yes), and 'Endpoint type' (Standard).

## Select `telecomoutputstorage`

The screenshot shows the Microsoft Azure Storage Accounts interface. On the left, a sidebar lists various management options like 'Storage accounts', 'Diagnose and solve problems', 'Access Control (IAM)', etc. The main area is titled 'gleventtio | Containers'. It displays a table of containers with columns for Name, Last modified, Anonymous access level, and Lease state. Two containers are listed: '\$logs' and 'telecomoutputstorage', both of which are highlighted with a red box.

Name	Last modified	Anonymous access level	Lease state
\$logs	12/30/2024, 10:43:59 AM	Private	Available
telecomoutputstorage	12/30/2024, 10:53:09 AM	Private	Available

## JSON file is located in the Container

The screenshot shows the Microsoft Azure Storage Containers interface for the 'telecomoutputstorage' container. The left sidebar includes 'Overview', 'Diagnose and solve problems', 'Access Control (IAM)', and 'Settings'. The main area shows blob details with fields for 'Authentication method' (Access key) and 'Location' (telecomoutputstorage). Below is a table of blobs with columns for Name, Modified, Access tier, Archive status, Blob type, Size, and Lease state. One blob, '0\_6b2fe7ae6ee94b0e988b0c024cc204d9\_1.json', is highlighted with a red box.

Name	Modified	Access tier	Archive status	Blob type	Size	Lease state
0_6b2fe7ae6ee94b0e988b0c024cc204d9_1.json	12/30/2024, 11:47:28 AM	Hot (Inferred)		Block blob	6.69 KiB	Available

In Azure search bar, enter **Resource groups**  
Select **Resource groups**

A screenshot of the Microsoft Azure Storage Container blade for the 'telecomoutputstorage' container. The URL is https://portal.azure.com/#view/Microsoft\_Azure\_Storage/ContainerMenuBlade/~/openview/storageAccounts/gleventtio/subscriptions%2F8d3e1cd2-8996-4289-91db-4960cbdf5066%2FresourceGroups%2FGL-EVENT-PROC%2Fprovider... . The search bar at the top has 'resource groups' typed into it, and a red box highlights this search term. On the left sidebar, under 'Resources', 'Resource groups' is also highlighted with a red box. The main pane shows blob storage details.

Select **GL-EVENT-PROC** Resource Group

A screenshot of the Microsoft Azure Resource Groups blade. The URL is https://portal.azure.com/#browse/resourcegroups . The search bar at the top has 'Search resources, services, and docs (G+)' and a red box highlights the search bar. The main table lists one resource group:

Name	Subscription	Location
GL-EVENT-PROC	East US	East US

The 'Name' column is sorted in ascending order (indicated by an upward arrow). The 'Subscription' and 'Location' columns are grouped by 'East US' (indicated by a downward arrow).

## Select Delete resource group

The screenshot shows the Microsoft Azure Resource Groups overview page for the 'GL-EVENT-PROC' resource group. The 'Delete resource group' button in the top navigation bar is highlighted with a red box. The page displays the resource group's details, including its subscription, location (East US), and deployment status (3 succeeded). A list of resources within the group is shown, including an Event Hubs Namespace, a Storage account, and a Stream Analytics job. The left sidebar provides navigation links for various Azure services.

## Copy Resource Group name

Paste in Enter resource group name to confirm deletion \*

## Select Delete

The screenshot shows the Microsoft Azure Resource Groups overview page for the 'GL-EVENT-PROC' resource group. The 'Delete a resource group' dialog box is open, displaying the resource group to be deleted ('GL-EVENT-PROC') and a list of dependent resources (Event Hubs Namespace, Storage account, and Stream Analytics job). A confirmation input field at the bottom contains the resource group name ('GL-EVENT-PROC'). The 'Delete' button in the dialog box is highlighted with a red box.

## Select Delete to confirm deletion

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Resource groups' blade is open, displaying a list of resource groups. One group, 'GL-EVENT-PROC', is selected and highlighted with a blue border. On the right, a modal dialog titled 'Delete a resource group' is displayed. The dialog contains the following information:

- Resource group to be deleted:** GL-EVENT-PROC
- Dependent resources to be deleted (3):** A list of three resources: 'gleventproc-tio' (Event Hubs Namespace), 'glevent' (Storage account), and 'telecomfake' (Event Hubs Namespace).
- Delete confirmation:** A message stating "Deleting this resource group and its dependent resources is a permanent action and cannot be undone."
- Buttons:** 'Delete' (highlighted with a red box) and 'Go back'.

At the bottom of the dialog, there is a text input field labeled "Enter resource group name to confirm deletion" containing the text "GL-EVENT-PROC".

## Resource group **GL-EVENT-PROC** is deleted

The screenshot shows the Microsoft Azure portal interface with the 'Resource groups' blade open. The 'Resource groups' list is displayed, showing one item: 'gleventproc' (highlighted with a red box). The list includes filtering options like 'Subscription equals all' and 'Location equals all'. The 'gleventproc' entry has a small blue icon next to it. The rest of the page includes standard Azure navigation and search bars at the top.

## No Storage accounts

The screenshot shows the Microsoft Azure Storage accounts page. The URL is https://portal.azure.com/#browse/Microsoft.Storage%2FStorageAccounts. The page title is "Storage accounts". It displays a message: "No storage accounts to display". Below the message, there is a brief description: "Create a storage account to store up to 500TB of data in the cloud. Use a general-purpose storage account to store object data, use a NoSQL data store, define and use queues for message processing, and set up file shares in the cloud. Use the Blob storage account and the hot or cool access tiers to optimize your costs based on how frequently your object data is accessed." There are two buttons: "Create storage account" and "Learn more". The entire message area is highlighted with a red rectangle.

## No Event Hubs

The screenshot shows the Microsoft Azure Event Hubs page. The URL is https://portal.azure.com/#browse/Microsoft.EventHub%2FNamespaces. The page title is "Event Hubs". It displays a message: "No event hubs namespaces to display". Below the message, there is a brief description: "An Event Hubs namespace is a management container for event hubs which provides DNS-integrated network endpoints and a range of access control and network integration management." There are two buttons: "Create event hubs namespace" and "Learn more about Event Hubs". The entire message area is highlighted with a red rectangle.