Lab Manual- Route Blob storage events to Service Bus Queue endpoint with the Azure portal

Prepared for:

Date: 18th Nov 2018

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Document Name: Lab Manual

Document Number DevOpsLab401

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1 OBJECTIVE

Microsoft Azure offers four services for messaging and events in Azure: Service Bus, Storage Queues, Event Hubs, and Event Grid.

Messages	Events
A message is raw data produced by a service to be consumed or stored elsewhere.	An event is a lightweight notification of a condition or a state change.
The publisher of the message expects how the consumer handles the message.	The publisher of the event does not expect how the event is handled
For example, A file sent as a message containing the data.	For example, An event notifies consumers that a file gets created. It may contain general information about the file but might not have the file itself.

Which service to use and When?

Service	Purpose	Type	When to use
Event Grid	Reactive programming	Event distribution (Discrete)	React to status changes
Event Hubs	Big data pipeline	Event streaming (Series)	Telemetry and distributed data streaming
Service Bus	HHigh-value enterprise messaging	Message	Order processing and financial transactions
Storage queue	Standard queuing scenarios, load leveling, and building process workflows	Message	Applications which need to store large sizes of messages in a queue.

Azure Service Bus

Azure Service Bus is a **messaging service on the cloud**, used to connect any applications, devices, and services in the cloud to other applications or services. It acts as a messaging backbone for applications in the cloud or across any devices.

2 PRE-REQUISISTE

- Prior knowledge of Azure
- A local Computer with 4 CPU, 16 GB RAM, 200 GB disk space

3 Lab Scenario

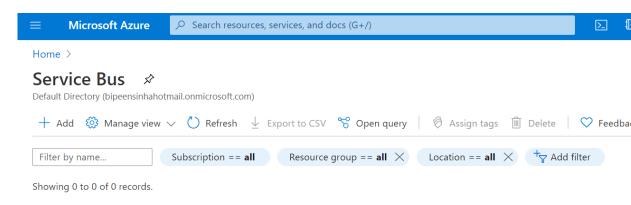
Event Grid uses event subscriptions to route event messages to subscribers(Service Bus Queue).



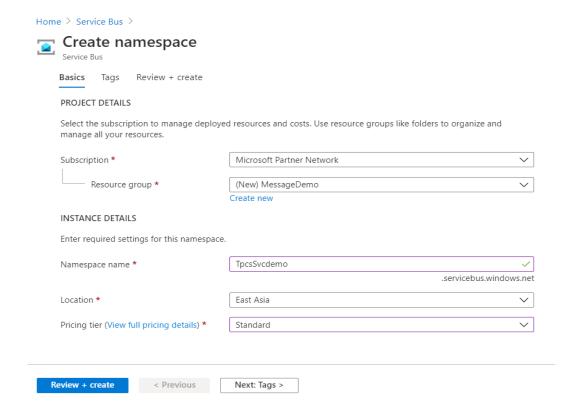
4 Setup the Enviornment

4.1 Create a Service Bus Namespace and Queue

- 1. Sign in to the Azure portal
- 2. In the left navigation pane of the portal, select select Service Bus.



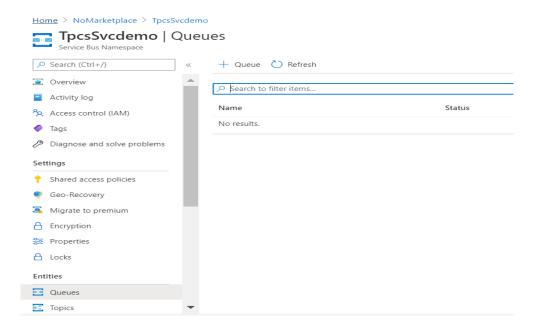
3. In the Create namespace dialog



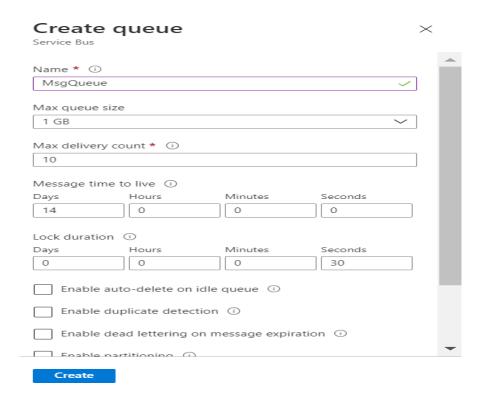
4. Verify the Service Bus get Created

4.2 Create a queue in the Service Bus

- 1. On the **Service Bus Namespace** page, select **Queues** in the left navigational menu
- 2. On the **Queues** page, select + **Queue** on the toolbar.

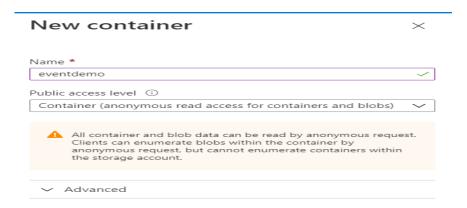


- 3. Enter a **name** for the queue, and leave the other values with their defaults.
- 4. Now, select Create.



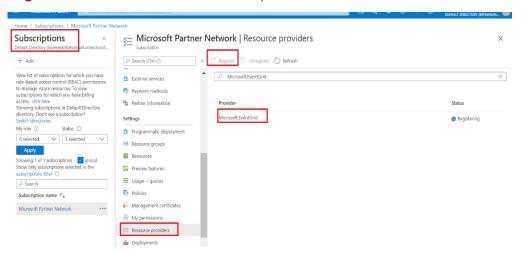
4.3 Create a Storage Account and Blob Container

We assume you know how to craete the storage account and container so the deatil steps Ommit here

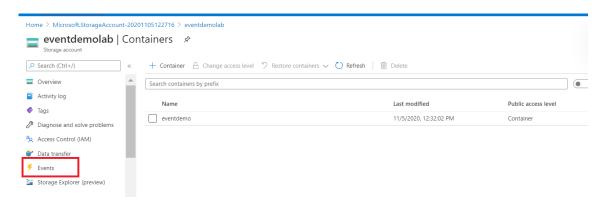


5 Setup the Event Subscription

1. Register the EventGid service in Subscription→Resource Provider



2. In Storage Account Select **Events**



3. Click **Event Subscription** and Define Name, Blob Storage, Topic Name, Event Type (**Blob Created**, **Blob Deleted**).

Home > Storage accounts > eventdemolab >



Basic **Filters** Additional Features Event Subscriptions listen for events emitted by the topic resource and send them to the endpoint resource. Learn more **EVENT SUBSCRIPTION DETAILS** Name * EventDemoSub Event Schema Event Grid Schema TOPIC DETAILS Pick a topic resource for which events should be pushed to your destination. Learn more Storage account Торіс Туре Source Resource eventdemolab System Topic Name * (i) EventDemoRopic TOPIC DETAILS **Blob Created** Pick a topic resource for which events should Blob Deleted Topic Type Directory Created Source Resource Directory Deleted System Topic Name * (1) Blob Renamed Directory Renamed **EVENT TYPES** Pick which event types get pushed to your d

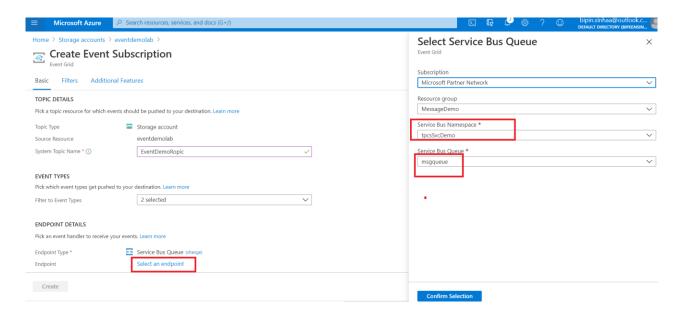
5. In The endpoint details select Service Bus Queue

Filter to Event Types

2 selected

торіс туре	Storage account	
Source Resource	eventdemolab	
System Topic Name * (1)	Azure Function	
EVENT TYPES	Web Hook	
Pick which event types get pushed to your o	Storage Queues	
Filter to Event Types	Event Hubs	
	Hybrid Connections	
ENDPOINT DETAILS	Service Bus Queue	
Pick an event handler to receive your events	Service Bus Topic	
Endpoint Type *	^	
	This field is required.	

6. In The endpoint details → Endpoint , select **Service Bus Queue** Name



7. Click **Create** to Create the Subscription

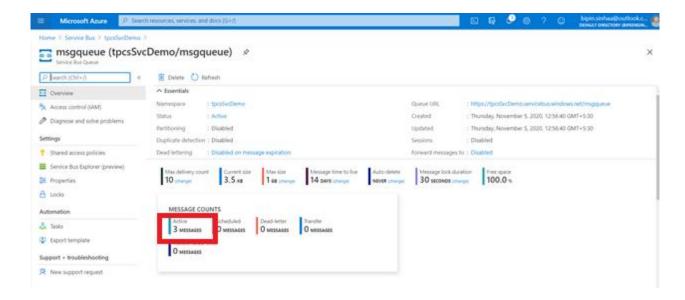
Home → Storage accounts → eventdemolab →



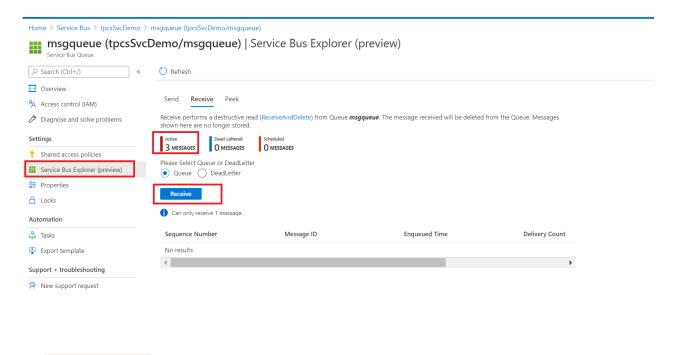
TODIC DETAILS	
TOPIC DETAILS	
Pick a topic resource for wh	which events should be pushed to your destination. Learn more
Торіс Туре	■ Storage account
Source Resource	eventdemolab
System Topic Name * (i)	EventDemoRopic ✓
EVENT TYPES	
Pick which event types get	et pushed to your destination. Learn more
Filter to Event Types	2 selected V
ENDPOINT DETAILS	
	receive your events. Learn more
	receive your events. Learn more Service Bus Queue (change)

6 Trigger the Event with Blob Upload and Delete operation

- Once it created , upload the files in Blob Container and also delete few files
- 2. Go to service bus→Queue
- 3. Note the Number of Message in Queue



4. Open the Service Bus Explorer to receive the message



Receive and Delete Message

Do you want to perform a destructive receive?



5. **Check the message you will notice your file name** which get uploaded an deleted by you

