

Demo 4 - F&O and Event Grid

Tuesday, November 19, 2019 1:54 PM

Requirements:

- Azure subscription
- F&O subscription

1. Create an Event Grid topic:

- From the Azure portal, click to **+ Create a Resource > Event Grid Topic > Create**, set it up like this and then click **Create**:

Name: give it any name

Subscription: select the appropriate one

Resource group: select an existing one or create a new one

Location: West Europe

Event schema: Event Grid Schema

The screenshot shows the 'Create Topic' wizard for an 'Event Grid Topic'. The fields filled in are:

- Name ***: FnEventGridTopic
- Subscription ***: A dropdown menu showing a single item.
- Resource group ***: FnORG
- Create new**: A link to create a new resource group.
- Location ***: West Europe
- Event Schema**: Event Grid Schema

- Once deployment of the new resource completes, go to the Event Grid resource > **Overview** > copy the **Topic Endpoint** value:

The screenshot shows the 'FnEventGridTopic' Overview page. The 'Topic Endpoint' value is highlighted with a yellow arrow pointing to the right. Other visible details include:

- Resource group: FnORG
- Status: Active
- Location: West Europe
- Subscription: A dropdown menu showing a single item.
- Subscription ID: A long string of characters.
- Tags: Click here to add tags

- c. Now go to **Access Keys** and copy value from Key 1:

FnEventGridTopic - Access keys
Event Grid Topic

Search (Ctrl+ /)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Settings
- Access keys**

Access keys are used to authenticate an application publishing events to this Azure Event Grid Topic. We recommend regenerating your keys regularly and storing them securely. You are provided with two access keys so that you can maintain connections using one key while regenerating the other.

Name	Key
Key 1	[REDACTED]
Key 2	[REDACTED]

2. Create a new Key Vault:

- a. Create a new **Key Vault** resource and set it up like this:

Subscription: select the appropriate one
 Resource group: select an existing one or create a new one
 Key vault name: give it any name
 Region: West Europe
 Pricing tier: Standard

Subscription *

- Resource group *

FnORG

Create new

Instance details

Key vault name * ⓘ

West Europe

Region *

Standard

Pricing tier * ⓘ

- b. Click **Review and Create > Create**.

- c. Once created, go to the Key Vault and under **Overview** copy the **DNS Name** value:

FnKeyVaultJmoreiro
Key vault

Search (Ctrl+ /)

- Overview
- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

Delete Move

Resource group (change)
FnORG

Location
West Europe

Subscription (change)

Subscription ID

DNS Name
[REDACTED]

Sku (Pricing tier)
Standard

Directory ID
[REDACTED]

Directory Name
Microsoft

- d. Under **Secrets** click on **+Generate/Import**, give this secret a name and paste the value

of the **Key 1** you copied in the previous steps, then click **Create**:

Create a secret

Upload options
Manual

Name * ⓘ
EventGridKey

Value *
XXXXXXXXXXXXXXXXXXXX

Content type (optional)

Set activation date? ⓘ

Set expiration date? ⓘ

Enabled? Yes No

- e. Copy the name of the secret you just created.

3. Register a new app:

- a. Go to **All Services > Security > Azure Active Directory > App Registrations > New Registration**, give it a name and click **Register**.
- b. Once created, go to **Certificates & Secrets > +New Client Secret**, give the secret a name and set it to never expire:

Add a client secret

Description
FnOAppSecret

Expires
 In 1 year
 In 2 years
 Never

Add **Cancel**

- c. Copy the secret (make sure you copy it now, otherwise you will need to create a new one if you don't):

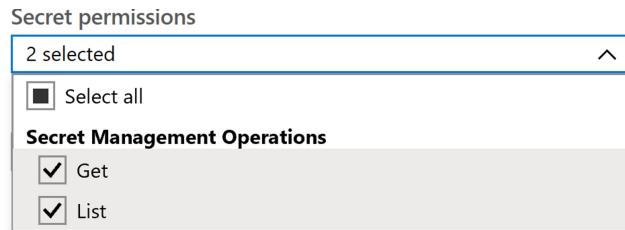
+ New client secret		Copy to clipboard
Description	Expires	Value
FnOAppSecret	12/31/2299	[REDACTED]

- d. Go to **Overview** and copy the **Application (client) ID**.

4. Add an access policy to your Key Vault:

- a. Go to the Key Vault you created earlier then go to **Access Policies** > **+Add Access Policy**, set it up like this:

Select Principal: select the App you registered earlier > **Select**
Secret permissions: select Get and list:



- b. Click **Add**.
 - c. Click **Save**.
5. Configure the business event endpoint:
 - a. Go to **System Administration** > **Setup** > **Business Events** > **Business Events Catalog** > **Endpoints** > **+New**
 - b. Select **Azure Event Grid**, click **Next**.
 - c. Give the endpoint a name and fill out all fields with the values from the previous steps, then click **Ok**:

Configure new endpoint

Endpoint name
EventGridEndpoint

Endpoint type
Azure Event Grid

Endpoint URL
[REDACTED]
.eventgrid.azure.net/api/events

KEY VAULT INFORMATION

Azure Active Directory application ID
[REDACTED]

Azure application secret
[REDACTED]

Key Vault DNS name
[REDACTED]

Key Vault secret name
[REDACTED]

For Azure Event Grid endpoints the Key Vault secret name
should be a secret containing the credential to the Event Grid

- d. If successful, you should now see your new Service Bus Topic endpoint listed:

Business events

Business event catalog **Endpoints** Active events Inactive events Errors

+ New Delete

Endpoint name ↑	Endpoint type
EventGridEndpoint	Azure Event Grid

FlowEndpoint 18C1A6E7E6 0E78 1255 8E16 80327C0710C9E1 Microsoft Flow

6. Activate the business event:

- a. Go to **System Administration > Setup > Business Events > Business Events Catalog** > select the **CustFreeTextInvoicePostedBusinessEvent** event from the list (filter by Business event ID) > click on **+Activate**:

Business event catalog Endpoints Active events Inactive events Errors

+ Activate

Category	Business event ID ↑	Name
Accounts receivable	CustFreeTextInvoicePostedBusinessEvent	Free te
Sales orders	SalesInvoicePostedBusinessEvent	Invoice

- b. Select USMF for the legal entity and for the endpoint select the one you created in the

previous step, then click **Ok**:

Configure new business event

Legal entity

USMF

The default blank value will mean all legal entities where the business event occurs.

Endpoint name

EventGridEndpoint

- c. If you want you can go to Endpoints and confirm that the business event is now active for your endpoint:

Business events

Business event catalog **Endpoints** Active events Inactive events Errors

+ New Delete

✓ Endpoint name ↑

- EventGridEndpoint
- FlowEndpoint_{8CA6E756-9E78-4355-8616}
- FlowEndpoint_{B271F1EC-C558-48DD-96B}
- MartinsWebsinkEndpoint

Active business events

Category	Name
Accounts receivable	Free text invoice posted

7. Create a free text invoice:

- Create a free text invoice in F&O by going to **Accounts Receivable > Invoices > All Text Invoices > New**, fill in the required fields, **Save** and then **Post It**.
- Now you can check if it all worked successfully. To do so, you can check out the metrics for your Event Grid in the portal or create a simple subscriber app. We will create a simple Logic App which listens for the Event Grid Topic's events:
- Create a new resource in your Azure subscription or type **Logic App**, setting it up like this:

Logic App

Name *
FnOEEventGridListener

Subscription *

Resource group * ?
 Create new Use existing

Logic App

□ X

Name *

FnEventGridListener ✓

Subscription *

[REDACTED] ▾

Resource group * ⓘ

Create new Use existing

FnORG ▾

Location *

West Europe ▾

Log Analytics ⓘ

On Off



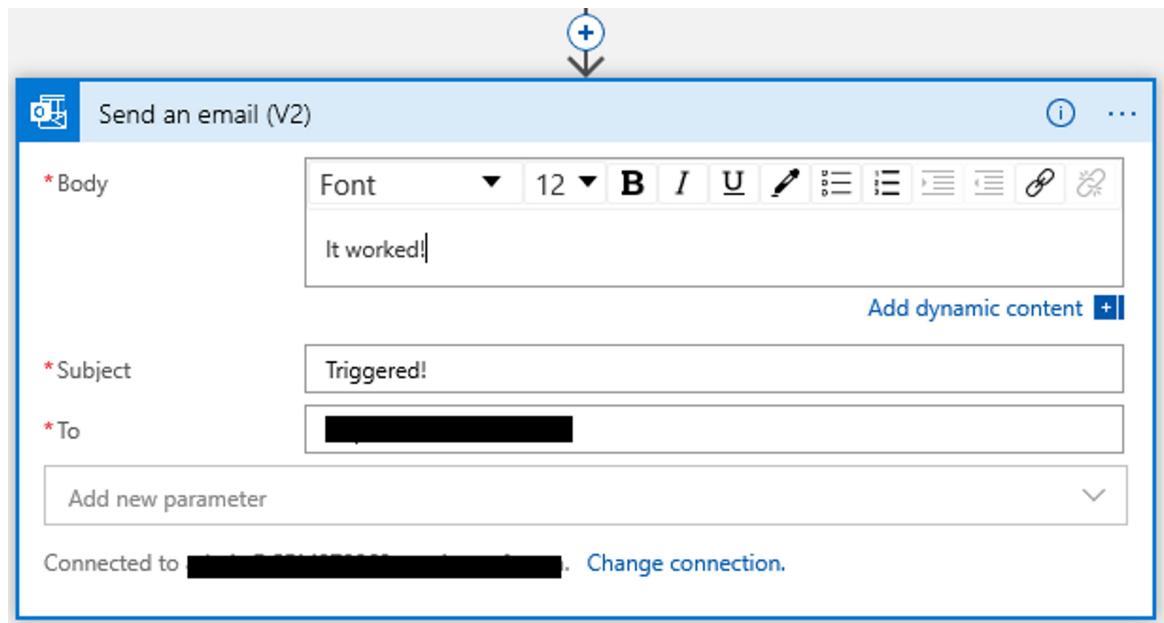
You can add triggers and actions to your Logic App after creation.

- d. Select to create a **Blank Logic App**, then the **Logic app designer** should appear. For the trigger, search for **Event Grid** and set it up like this:

The screenshot shows the Logic App designer interface with the following configuration for the trigger:

- * Subscription: [REDACTED]
- * Resource Type: Microsoft.EventGrid.Topics
- * Resource Name: FnEventGridTopic
- Event Type Item - 1: [REDACTED] (with a delete icon)
- + Add new item
- Add new parameter
- Connected to [REDACTED] Change connection.

- e. Then add an **Office 365 Outlook > Send email** action to send an email when the previous event is triggered:



- f. If it works successfully, it will show up in your Logic App's **Runs** history as successful:

Runs history

All	Start time earlier than
Specify the run identifier to open monitor view directly	
Status	Start time
<input checked="" type="checkbox"/> Succeeded	11/19/2019, 5:05 PM

And you should receive the email at the address you indicated in the Logic App.