

Demo 5 - F&O HTTPS endpoint

Wednesday, October 9, 2019 3:34 PM

Requirements:

- Azure subscription
- F&O subscription
- An HTTPS endpoint to listen for events / requests (for example using an Azure Function)

1. Create a new Key Vault:

- From the Azure portal, click to **+ Create a Resource > Key Vault > Create** 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

The screenshot shows the 'Create a new Key Vault' form in the Azure portal. It is divided into two sections: 'Subscription' and 'Instance details'. In the 'Subscription' section, there is a dropdown for 'Subscription' (marked with a red asterisk) and a dropdown for 'Resource group' (marked with a red asterisk) which currently shows 'FnORG'. Below the 'Resource group' dropdown is a blue link that says 'Create new'. In the 'Instance details' section, there are four fields: 'Key vault name' (marked with a red asterisk and an info icon), 'Region' (marked with a red asterisk), and 'Pricing tier' (marked with a red asterisk and an info icon). The 'Key vault name' field has a green checkmark at the end. The 'Region' dropdown shows 'West Europe'. The 'Pricing tier' dropdown shows 'Standard'.

- Click **Review and Create > Create**.
- Once created, go to the Key Vault and under **Overview** copy the **DNS Name** value.
- Under **Secrets** click on **+Generate/Import**, give this secret a name and paste the URL of your HTTP endpoint, leave the rest of field values by default and click **Create**.
- Copy the name of the secret you just created.

2. Register a new app:

- Go to **All Services > Security > Azure Active Directory > App Registrations > New Registration**, give it a name and click **Register**.
- 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 | | | |
|---------------------|------------|-------|-------------------|
| Description | Expires | Value | Copy to clipboard |
| FnOAppSecret | 12/31/2299 | | |

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

3. 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:

Secret permissions

2 selected ^

☐ Select all

Secret Management Operations

☒ Get

☒ List

- b. Click **Add**.

- c. Click **Save**.

4. Add a new endpoint in F&O:

- a. Go to **System Administration** > **Setup** > **Business Events** > **Business Events Catalog** > **Endpoints** > **+New**
- b. Select **HTTPS** endpoint, give it a name and fill in each field with the values you have copied in the previous steps, then click **Ok**:

Configure new endpoint

Endpoint name

MartinsWebsinkEndpoint

Endpoint type

HTTPS

KEY VAULT INFORMATION

Azure Active Directory application ID

[REDACTED]

Azure application secret

●●●●●●●●

Key Vault DNS name

[REDACTED]

Key Vault secret name

MartinsWebsinkEndpoint

For HTTPS endpoints the Key Vault secret name should be a secret containing the fully qualified HTTP endpoint URL

- c. If successful, you should now see your new HTTPS endpoint listed:

| Business event catalog | | Endpoints | Active events | Inactive events | Errors |
|------------------------|---|-----------|---------------|-----------------|---------------|
| + New | | 🗑 Delete | | | |
| ✓ | Endpoint name ↑ | | | | Endpoint type |
| | FlowEndpoint_{8CA6E756-9E78-4355-8616-8032C9749F8E} | | | | Microsoft Flo |
| | FlowEndpoint_{B271F1EC-C558-48DD-96B8-E2A605145553} | | | | Microsoft Flo |
| ✓ | MartinsWebsinkEndpoint | | | | HTTPS |

5. 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

MartinsWebsinkEndpoint

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

| ✓ Endpoint name | Endpoint type | MartinsWebsinkEndpoint |
|---|----------------|------------------------|
| FlowEndpoint_{8CA6E756-9E78-4355-8616-8032C9749F8E} | Microsoft Flow | HTTPS |
| FlowEndpoint_{B271F1EC-C558-48DD-96B8-E2A605145553} | Microsoft Flow | |
| ✓ MartinsWebsinkEndpoint | HTTPS | |

| Active business events | |
|------------------------|--------------------------|
| Category | Name |
| Accounts receivable | Free text invoice posted |

6. Test your new endpoint:

- a. Create a free text invoice in F&O (**Accounts Receivable > Invoices > All Text Invoices > New**) and **Post** it.
- b. If all works well, your endpoint should have received the business event related request:

```
10/09/2019 15:59:54 {"BusinessEventId":"BusinessEventsTestEndpointContract","ControlNumber":-9223372036854775808,"EventId":"D3E400EB-B11F-4B8F-907A-9F849249EE63","EventTime":"/Date(1570636794000)/","MajorVersion":0,"MinorVersion":0,"TestField":""}
10/09/2019 16:12:16 {"BusinessEventId":"CustFreeTextInvoicePostedBusinessEvent","ControlNumber":5637145331,"EventId":"AF77DE2B-4318-4ED6-A0B6-D859C640C366","EventTime":"/Date(1570637522000)/","InvoiceAccount":"DE-001","InvoiceAmountInAccountingCurrency":0.0,"InvoiceDate":"/Date(1570579200000)/","InvoiceDueDate":"/Date(1571443200000)/","InvoiceId":"FTI-00000027","InvoiceTaxAmount":0.0,"LegalEntity":"usmf","MajorVersion":0,"MinorVersion":0}
10/09/2019 16:16:24 {"BusinessEventId":"CustFreeTextInvoicePostedBusinessEvent","ControlNumber":5637145332,"EventId":"BC42CA8D-ACAC-4654-8D9E-42C3B8B11018","EventTime":"/Date(1570637774000)/","InvoiceAccount":"DE-001","InvoiceAmountInAccountingCurrency":136.99,"InvoiceDate":"/Date(1570579200000)/","InvoiceDueDate":"/Date(1571443200000)/","InvoiceId":"FTI-00000028","InvoiceTaxAmount":0.0,"LegalEntity":"usmf","MajorVersion":0,"MinorVersion":0}
```

The first one corresponds to a request that F&O sent out when you created the new endpoint. The rest correspond to the actual business events (in this case, free text invoice posted).