MICROSOFT LABS APRIL 13, 2018

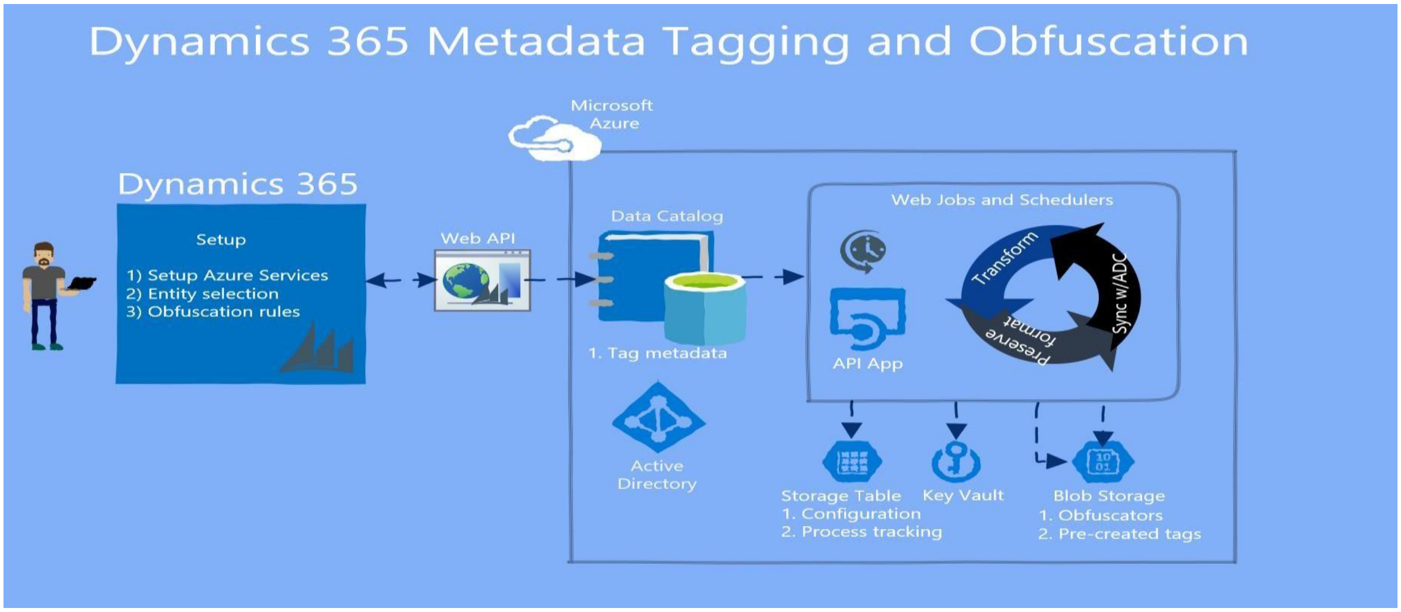
DYNAMICS 365 DATA TAGGING & OBFUSCATION

A tool to add entity into CRM, obfuscate the entity and sync Glossary with Azure table storage and give them a weightage.

Contents

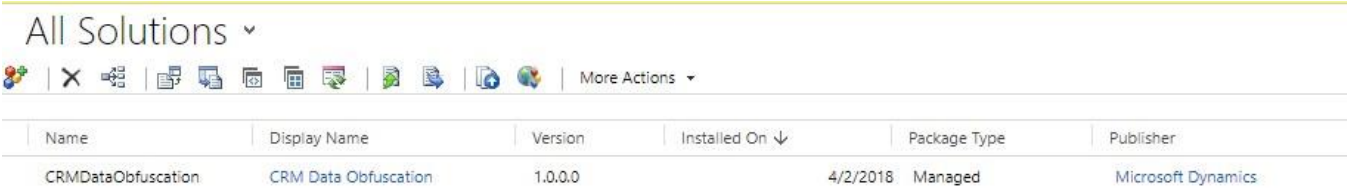
Introduction

Microsoft Dynamics 365 provides several tools for managing data. This tool is for data obfuscation, It look for all available entities in CRM and Obfuscate entity fields based on tagging at Azure Data Catalog and weightage configured in CRM...



Verify Solution Installation

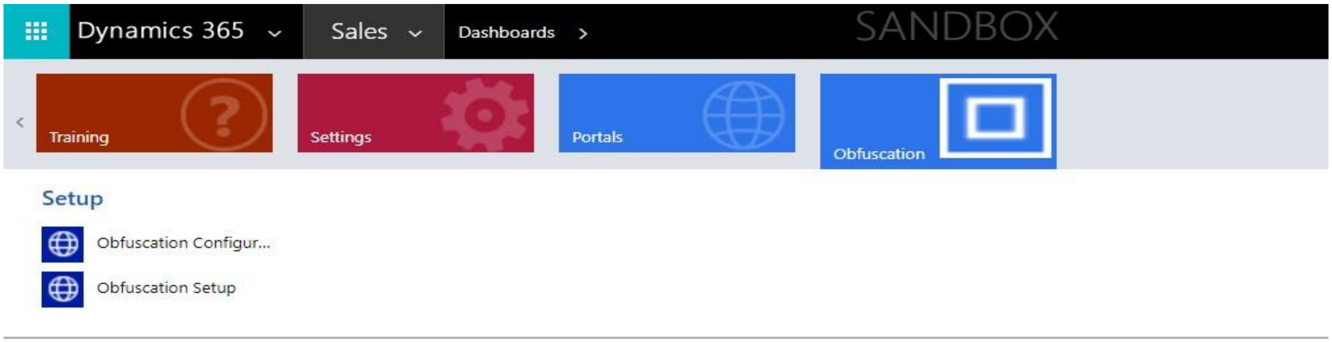
Once install the solution from AppSource. Go to **Settings | Solutions** and Check for the solution.



Name	Display Name	Version	Installed On	Package Type	Publisher
CRMDataObfuscation	CRM Data Obfuscation	1.0.0.0	4/2/2018	Managed	Microsoft Dynamics

Go to Data Obfuscation Site Map Menu Check for Sub menu option

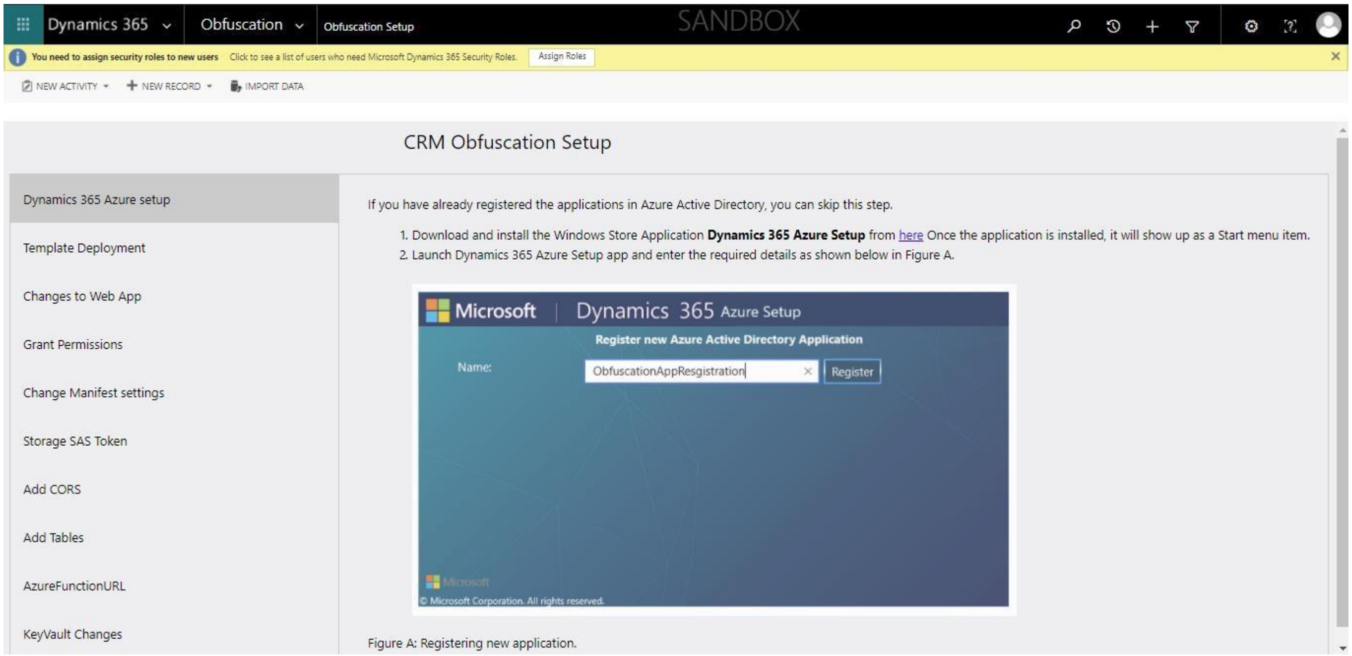
- Obfuscation Configuration
- Obfuscation Setup



Obfuscation Set-up

Dynamics 365 Azure setup

Go to **Obfuscation | Obfuscation Setup | Dynamics 365 Azure setup**


Dynamics 365
Obfuscation
Obfuscation Setup
SANDBOX
You need to assign security roles to new users
Click to see a list of users who need Microsoft Dynamics 365 Security Roles.
Assign Roles
NEW ACTIVITY
NEW RECORD
IMPORT DATA

CRM Obfuscation Setup

If you have already registered the applications in Azure Active Directory, you can skip this step.

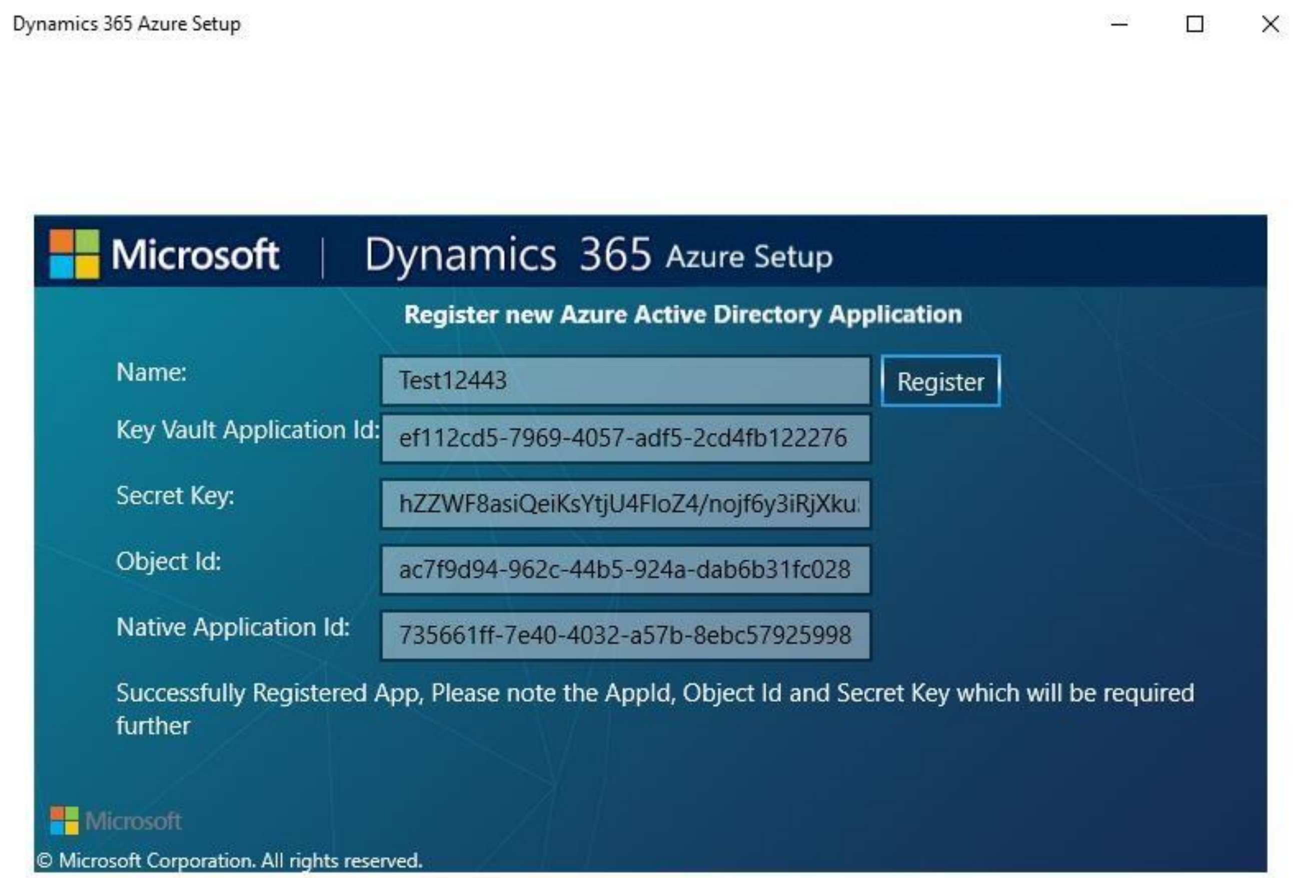
1. Download and install the Windows Store Application **Dynamics 365 Azure Setup** from here Once the application is installed, it will show up as a Start menu item.
2. Launch Dynamics 365 Azure Setup app and enter the required details as shown below in Figure A.

Register new Azure Active Directory Application

Name: ObfuscationAppResgistration

Figure A: Registering new application.

After Register the application, below is the snap shot for Keys



Register new Azure Active Directory Application

Name: Test12443

Key Vault Application Id: ef112cd5-7969-4057-adf5-2cd4fb122276

Secret Key: hZZWF8asiQeiKsYtjU4FloZ4/nojf6y3iRjXku

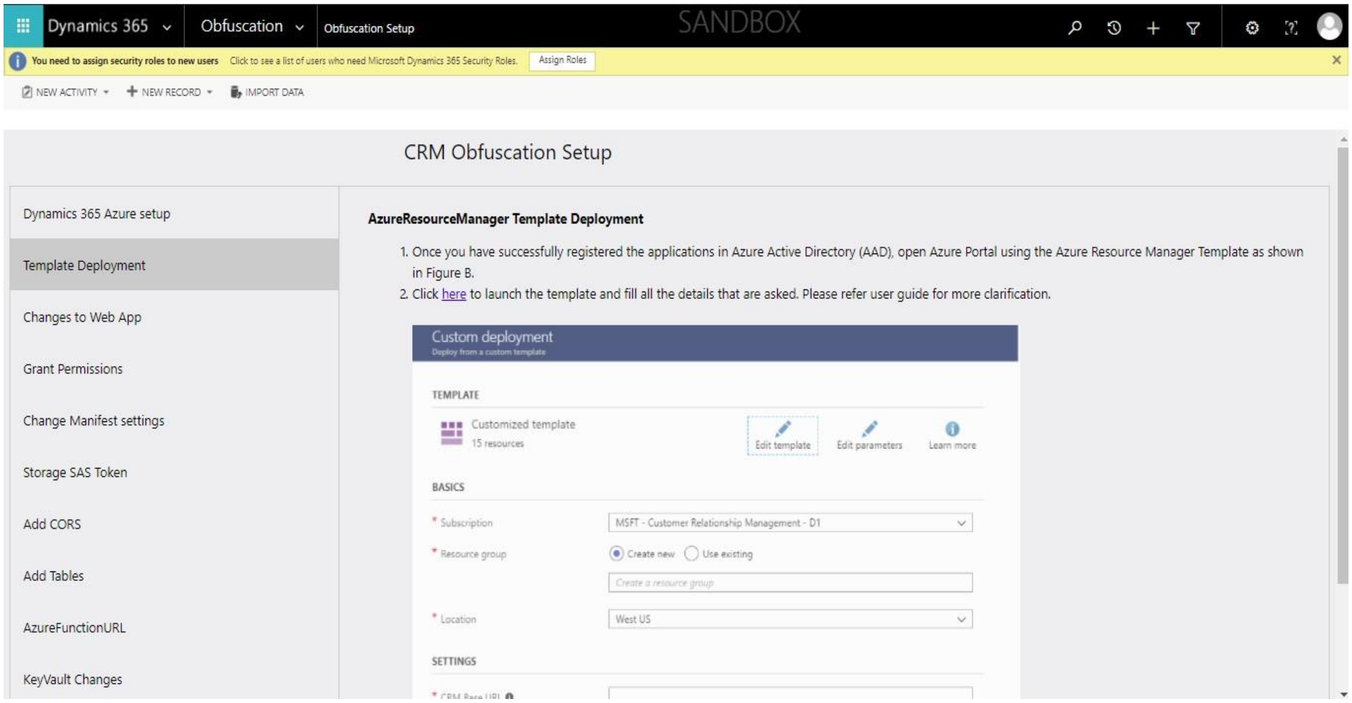
Object Id: ac7f9d94-962c-44b5-924a-dab6b31fc028

Native Application Id: 735661ff-7e40-4032-a57b-8ebc57925998

Successfully Registered App, Please note the AppId, Object Id and Secret Key which will be required further

Template Deployment

Go to **Sales|Obfuscation|Obfuscation Setup |Template Deployment**



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

AzureResourceManager Template Deployment

1. Once you have successfully registered the applications in Azure Active Directory (AAD), open Azure Portal using the Azure Resource Manager Template as shown in Figure B.
2. Click here to launch the template and fill all the details that are asked. Please refer user guide for more clarification.

Custom deployment
Deploy from a custom template

TEMPLATE

Customized template
15 resources

BASICS

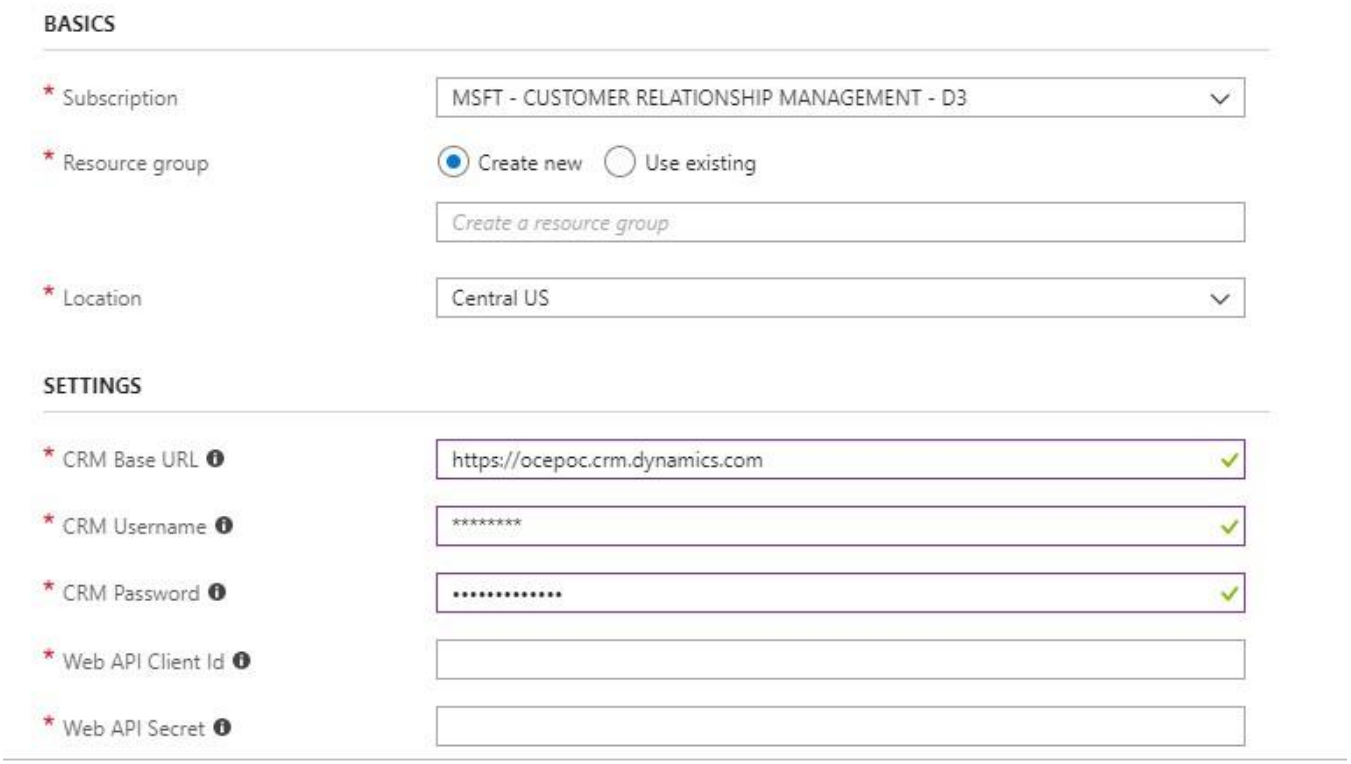
* Subscription	MSFT - Customer Relationship Management - D1
* Resource group	● Create new ○ Use existing
	Create a resource group
* Location	West US

SETTINGS

* CRM Base URL

Filling Custom Deployment Template:

Launch the custom deployment template and fill the details:

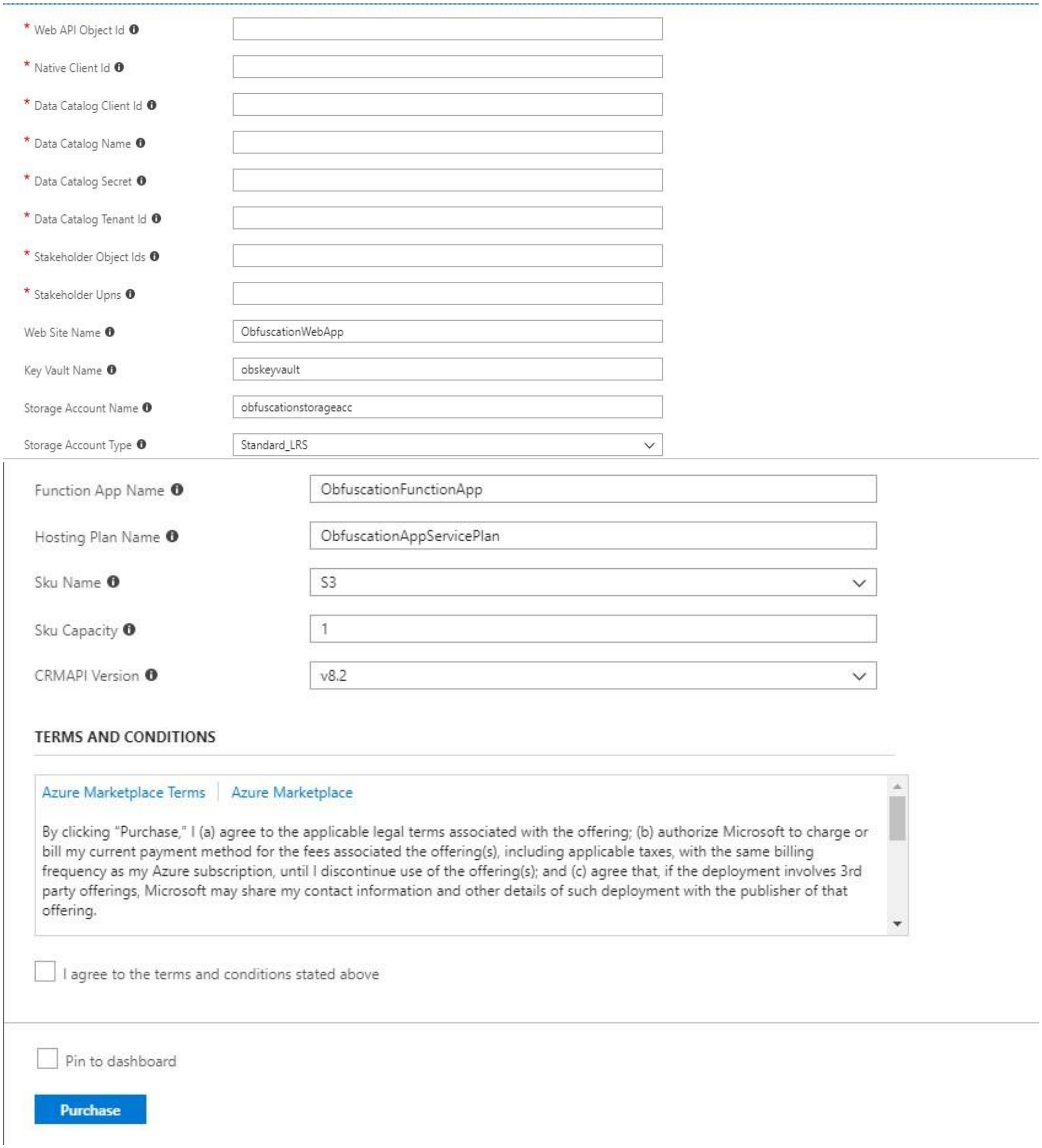


BASICS

* Subscription	MSFT - CUSTOMER RELATIONSHIP MANAGEMENT - D3
* Resource group	● Create new ○ Use existing
	Create a resource group
* Location	Central US

SETTINGS

* CRM Base URL	https://ocepoc.crm.dynamics.com ✓
* CRM Username	******** ✓
* CRM Password	••••••••••••• ✓
* Web API Client Id	
* Web API Secret	



* Web API Object Id	
* Native Client Id	
* Data Catalog Client Id	
* Data Catalog Name	
* Data Catalog Secret	
* Data Catalog Tenant Id	
* Stakeholder Object Ids	
* Stakeholder Upns	
Web Site Name	ObfuscationWebApp
Key Vault Name	obskeyvault
Storage Account Name	obfuscationstorageacc
Storage Account Type	Standard_LRS
Function App Name	ObfuscationFunctionApp
Hosting Plan Name	ObfuscationAppServicePlan
Sku Name	S3
Sku Capacity	1
CRMAPI Version	v8.2

TERMS AND CONDITIONS

By clicking "Purchase," I (a) agree to the applicable legal terms associated with the offering; (b) authorize Microsoft to charge or bill my current payment method for the fees associated the offering(s), including applicable taxes, with the same billing frequency as my Azure subscription, until I discontinue use of the offering(s); and (c) agree that, if the deployment involves 3rd party offerings, Microsoft may share my contact information and other details of such deployment with the publisher of that offering.

□ I agree to the terms and conditions stated above

□ Pin to dashboard

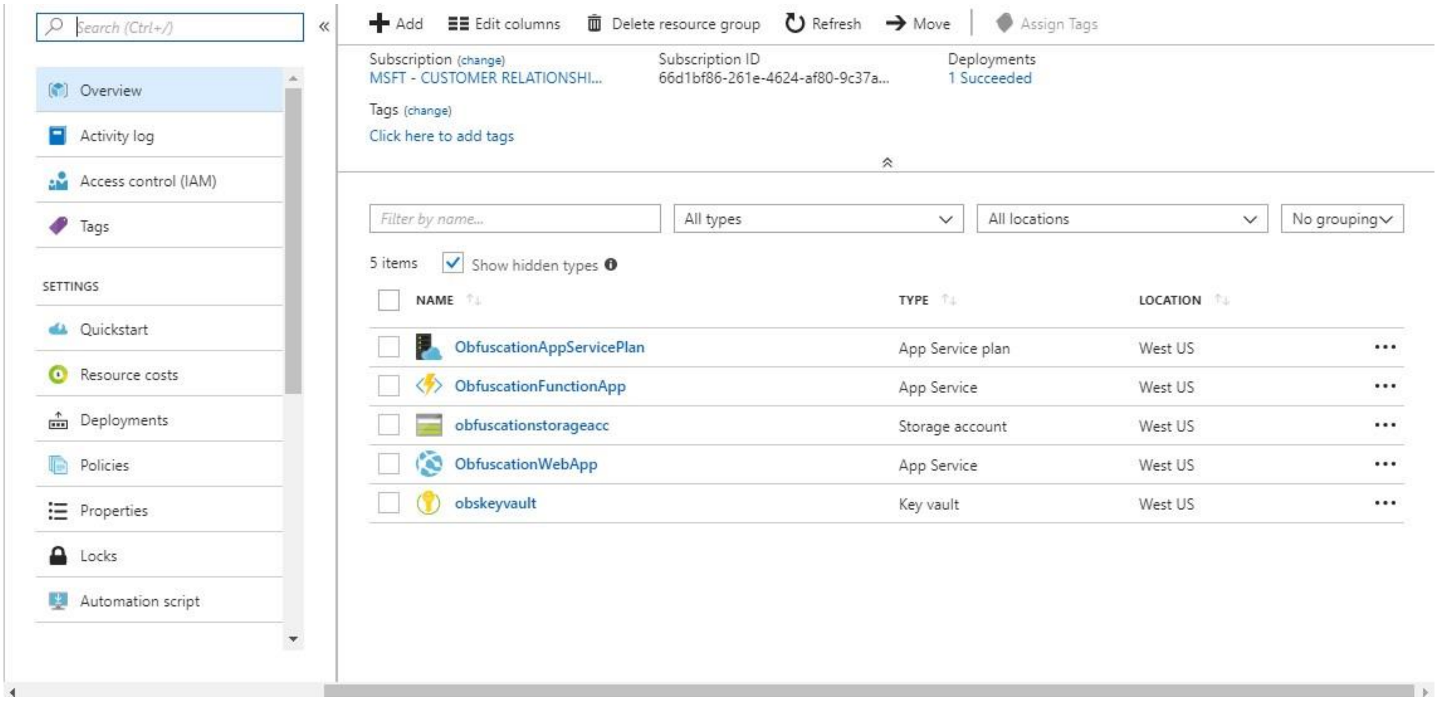
Azure Resource Manager Template Properties

- **Subscription**: Select the correct subscription from the dropdown list.

- **Resource Group**: Please note the following option choices… o **First Time setup**: Be sure to select **Create new** option and add a unique resource group name. **Important**: Save the resource group name for future references.
    - o **for any upgrades**: Select the **Use existing** option to use the existing resource group name.
- **Location**: Select the correct location from the dropdown list.
- **CRM Base URL:** CRM instance URL
- **CRM Username**: Use the CRM logged in user name (email address) with Admin privileges.
- **CRM Password**: Implied.
- **Web API Client Id**: Paste the existing Key Vault Application Id
- **Web API Secret Id**: Paste the existing Secret Id
- **Web API Object Id:** Paste the existing Object Id
- **Native Client Id:** Paste the existing Native Application Client Id
- **Data Catalog Client Id**: Get the Data Client Id from Azure Data catalog
- **Data Catalog Name**: Get from Azure data catalog
- **Data Catalog Secret**: Get from Azure data catalog
- **Data Catalog Tenant Id**: Get from Azure data catalog
- **Stake Holder Object Id:** Get from Azure data catalog
- **Stake Holder Upns**: Get from Azure data catalog
- **Web Site Name**: Any unique website name with contiguous characters.
- **Key Vault Name**: Any unique KV name. **Important**: Please use contiguous lowercase letters only.
- **Database Account Name**: Alphanumeric Cosmos account name.
- **Storage Account Name**: Alphanumeric storage account name.
- **Storage account Type**: Select the correct value from the dropdown list.
- **Function App Name**:
- **Hosting Plan Name**: Use only unique contiguous lowercase characters.
- **Sku Name**: Select the correct value from the dropdown list.
- **Sku Capacity**: Suggest using the Default value of 1.
- **CRM Web APIVersion**: Select the correct value from the dropdown list.
-

Agree the **Terms and Conditions** and click on the **Purchase** button.

Once the deployment Completed Below are the Azure components



Subscription (change)
MSFT - CUSTOMER RELATIONSHI...

Subscription ID
66d1bf86-261e-4624-af80-9c37a...

Deployments
1 Succeeded

Tags (change)
Click here to add tags

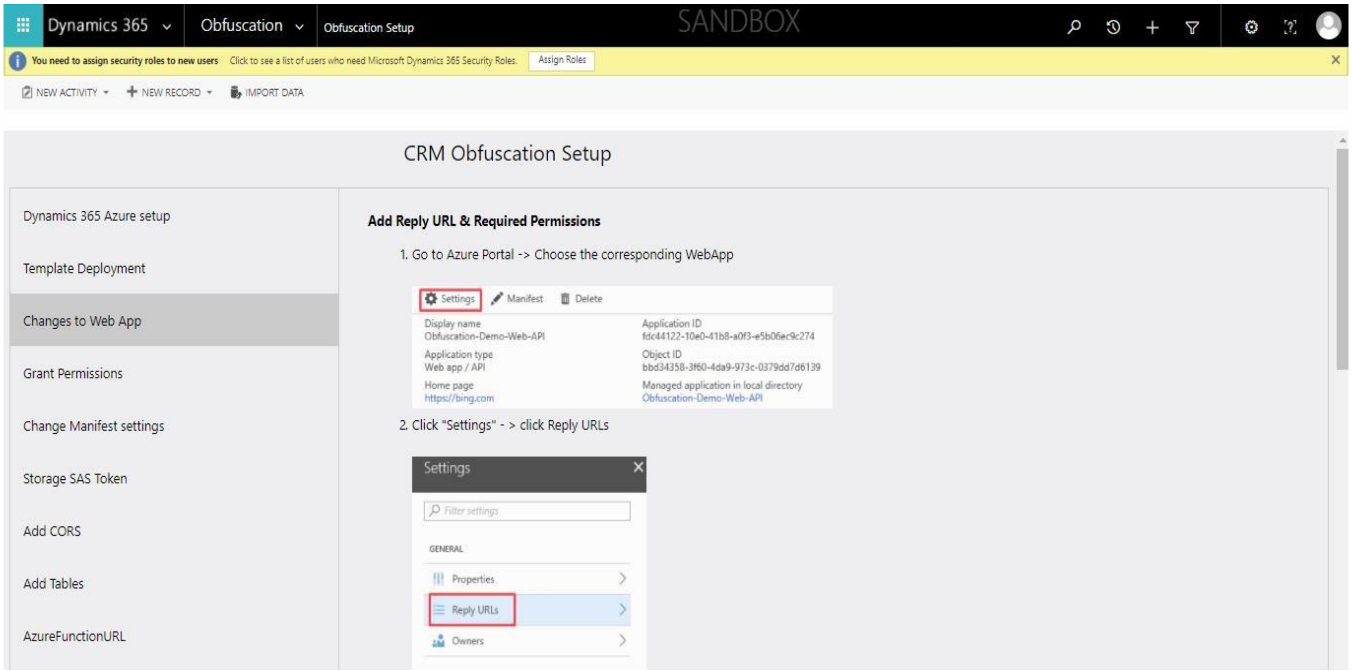
5 items ☑ Show hidden types

NAME	TYPE	LOCATION
ObfuscationAppServicePlan	App Service plan	West US
ObfuscationFunctionApp	App Service	West US
obfuscationstorageacc	Storage account	West US
ObfuscationWebApp	App Service	West US
obskeyvault	Key vault	West US

After Deployment Pls. follow below manual steps to complete the Deployment

Changes to Web App

Go to **Sales|Obfuscation|Obfuscation Setup |Changes to Web App** and change the necessary settings to Web App.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

Add Reply URL & Required Permissions

1. Go to Azure Portal -> Choose the corresponding WebApp

Display name
Obfuscation-Demo-Web-API

Application type
Web app / API

Home page
https://bing.com

Application ID
fdc44122-10e0-41b8-a0f3-e5b06ec9c274

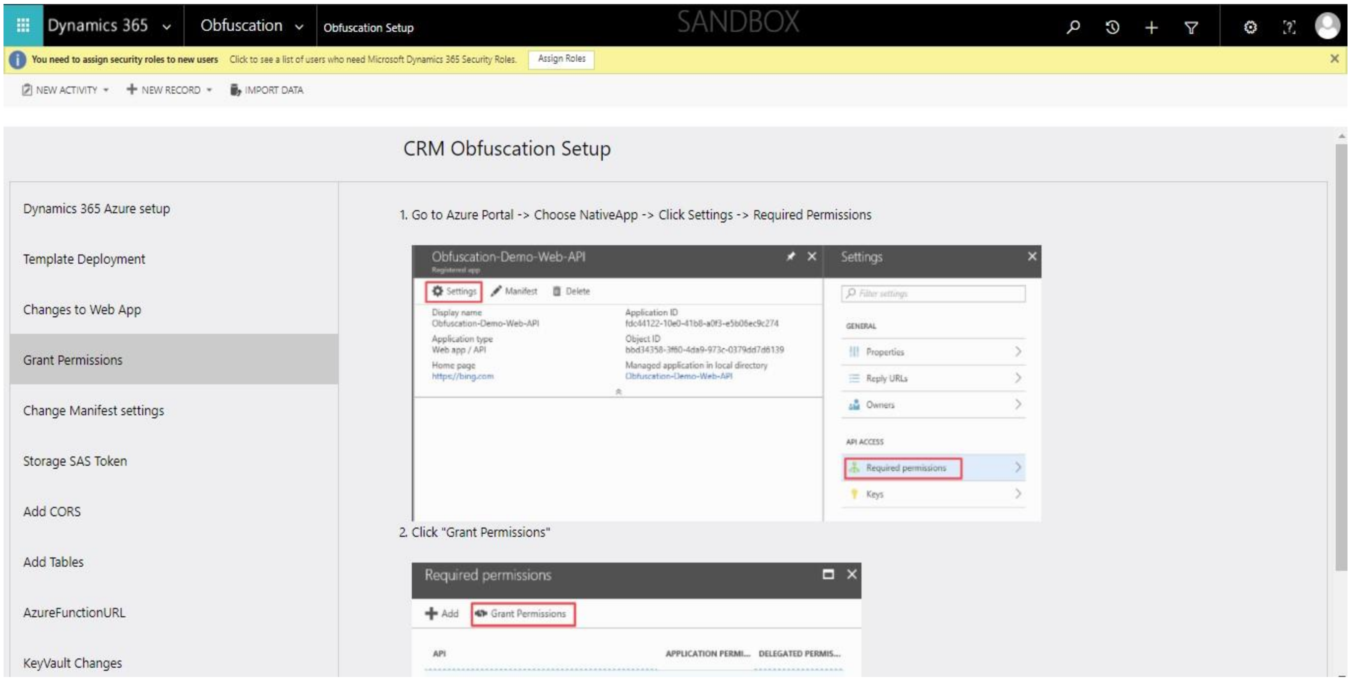
Object ID
bbd34358-3f60-4da9-973c-0379dd7d6139

Managed application in local directory
Obfuscation-Demo-Web-API

2. Click "Settings" - > click Reply URLs

Grant Permissions

Go to **Sales|Obfuscation|Obfuscation Setup |Grant Permissions** and check the necessary setting for granting permission.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

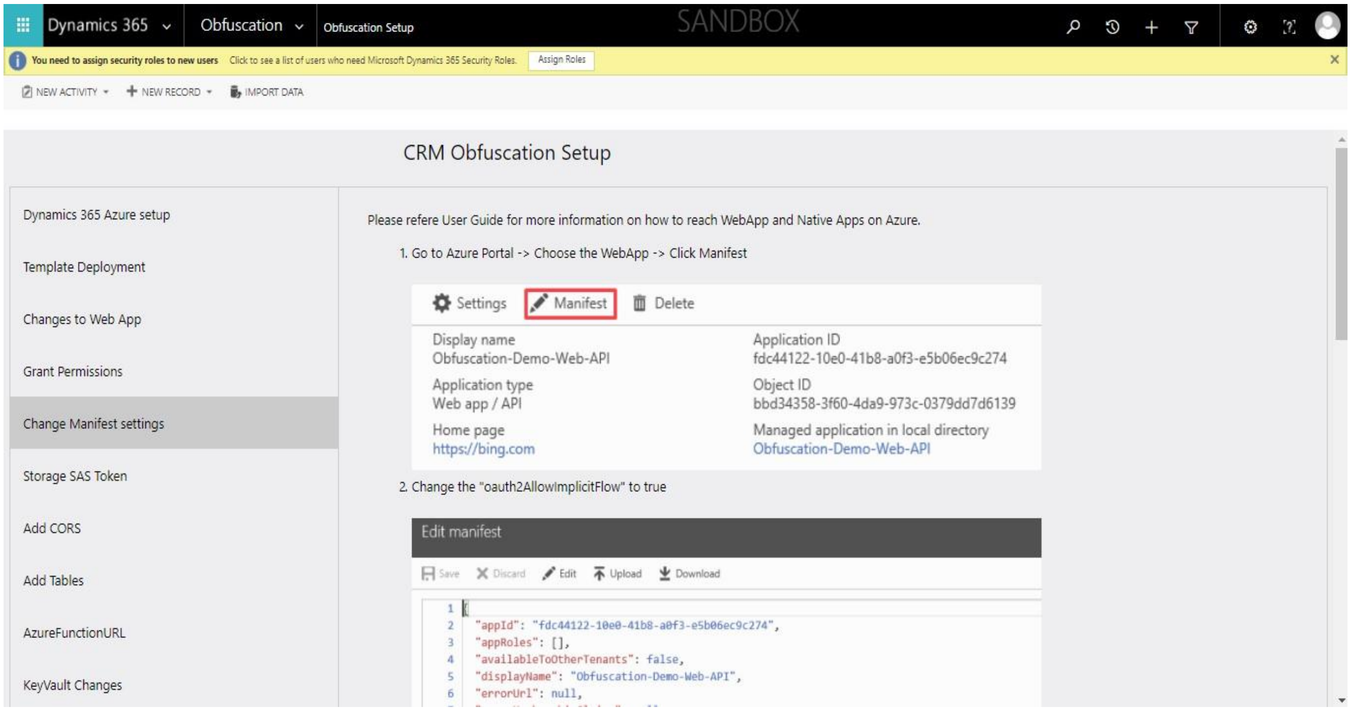
1. Go to Azure Portal -> Choose NativeApp -> Click Settings -> Required Permissions

Display name: Obfuscation-Demo-Web-API
Application type: Web app / API
Home page: https://bing.com
Application ID: fdc44122-10e0-41b8-a0f3-e5b06ec9c274
Object ID: bbd34358-3f60-4da9-973c-0379dd7d6139
Managed application in local directory: Obfuscation-Demo-Web-API

2. Click "Grant Permissions"

Change Manifest Settings

Go to **Sales|Obfuscation|Obfuscation Setup |Check Manifest Settings** and check the necessary manifest settings.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

Please refere User Guide for more information on how to reach WebApp and Native Apps on Azure.

1. Go to Azure Portal -> Choose the WebApp -> Click Manifest

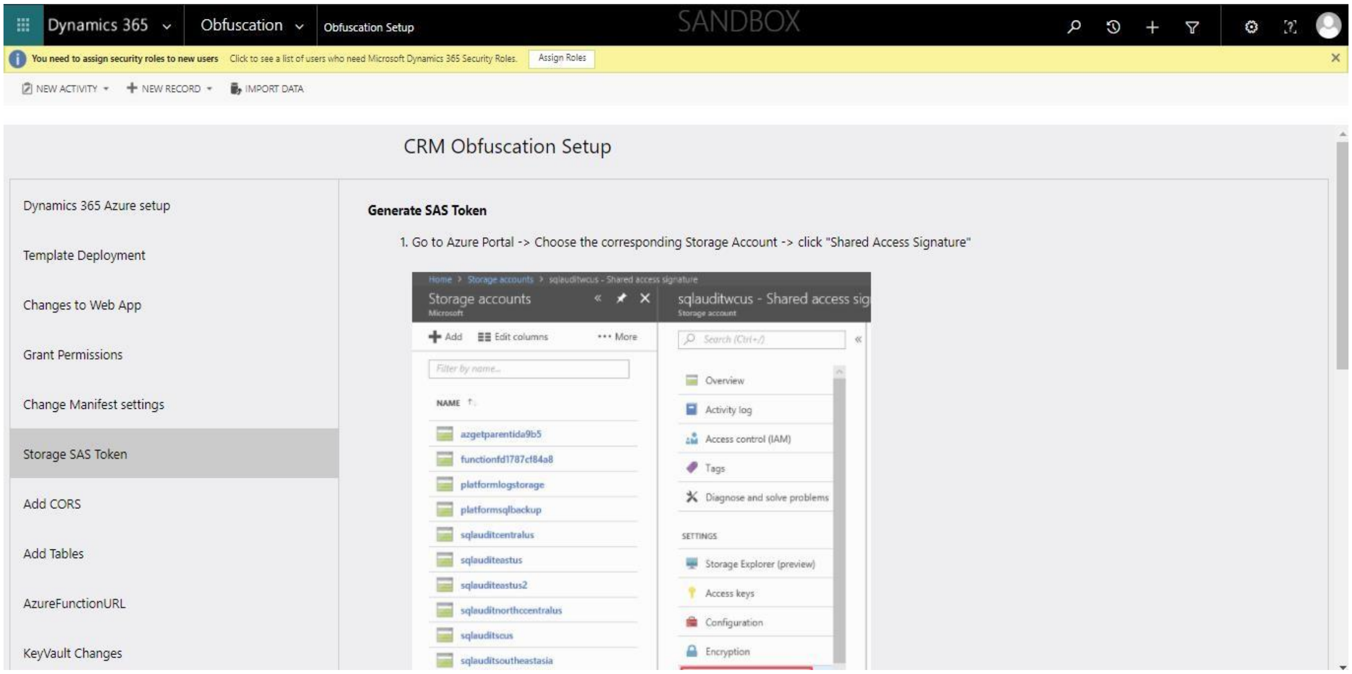
Display name: Obfuscation-Demo-Web-API
Application type: Web app / API
Home page: https://bing.com
Application ID: fdc44122-10e0-41b8-a0f3-e5b06ec9c274
Object ID: bbd34358-3f60-4da9-973c-0379dd7d6139
Managed application in local directory: Obfuscation-Demo-Web-API

2. Change the "oauth2AllowImplicitFlow" to true

```
{
  "appId": "fdc44122-10e0-41b8-a0f3-e5b06ec9c274",
  "appRoles": [],
  "availableToOtherTenants": false,
  "displayName": "Obfuscation-Demo-Web-API",
  "errorUrl": null,
```

Storage SAS Token

Go to **Sales|Obfuscation|Obfuscation Setup |Storage SAS Token** and generate the SAS token of Azure storage.



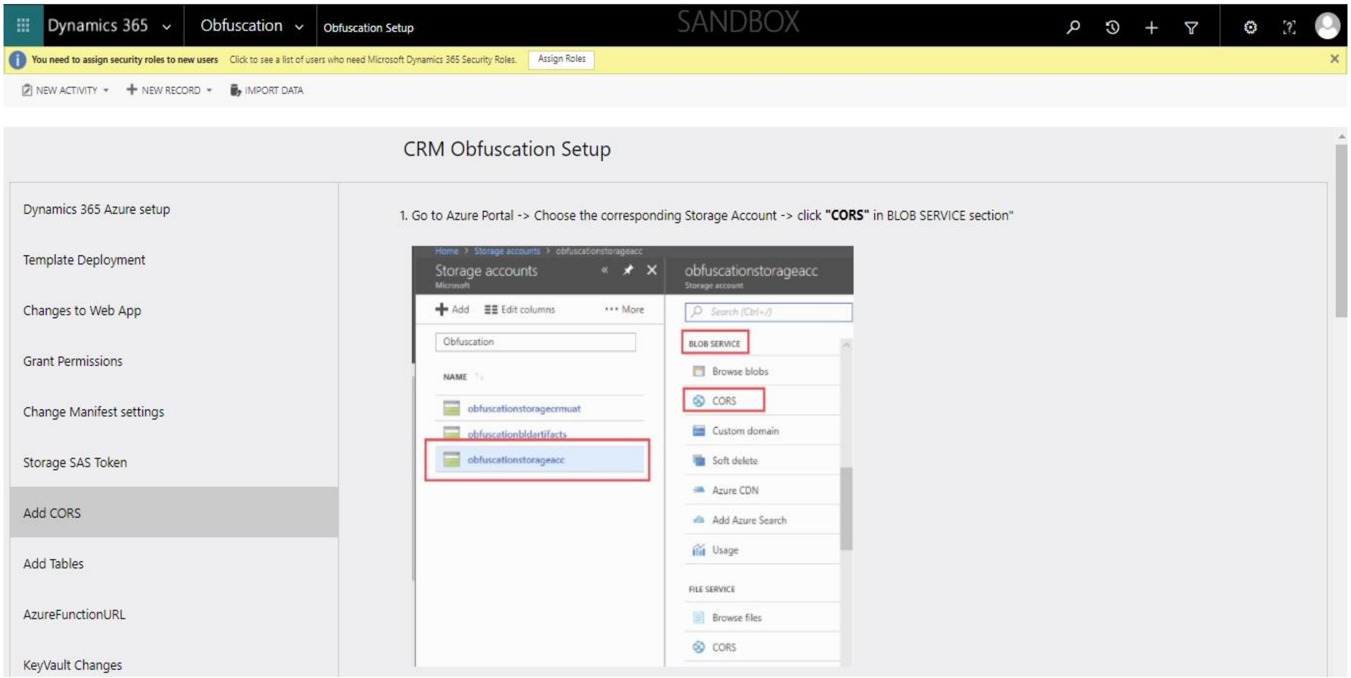
CRM Obfuscation Setup

Generate SAS Token

1. Go to Azure Portal -> Choose the corresponding Storage Account -> click "Shared Access Signature"

Add CORS

Go to **Sales|Obfuscation|Obfuscation Setup |Add CORS** to create CORS rules.

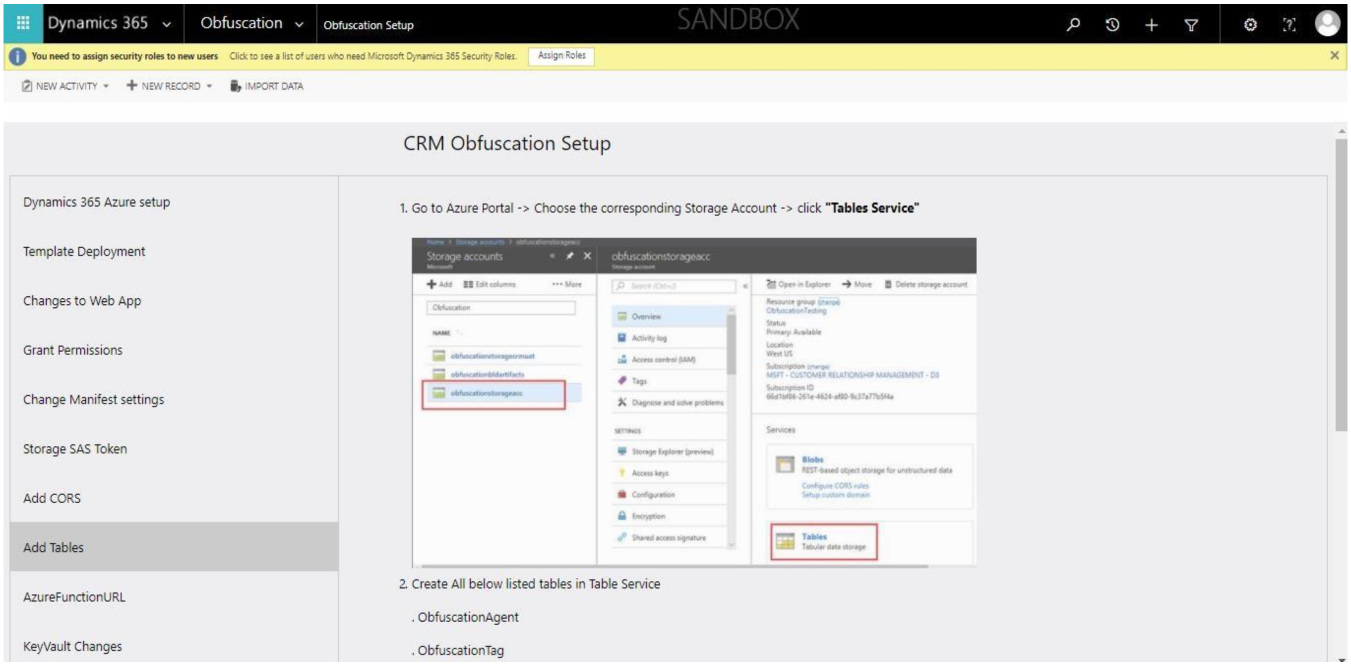


CRM Obfuscation Setup

1. Go to Azure Portal -> Choose the corresponding Storage Account -> click **"CORS"** in BLOB SERVICE section"

Add Tables

Go to **Sales|Obfuscation|Obfuscation Setup |Add Tables** and create tables.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

1. Go to Azure Portal -> Choose the corresponding Storage Account -> click **"Tables Service"**

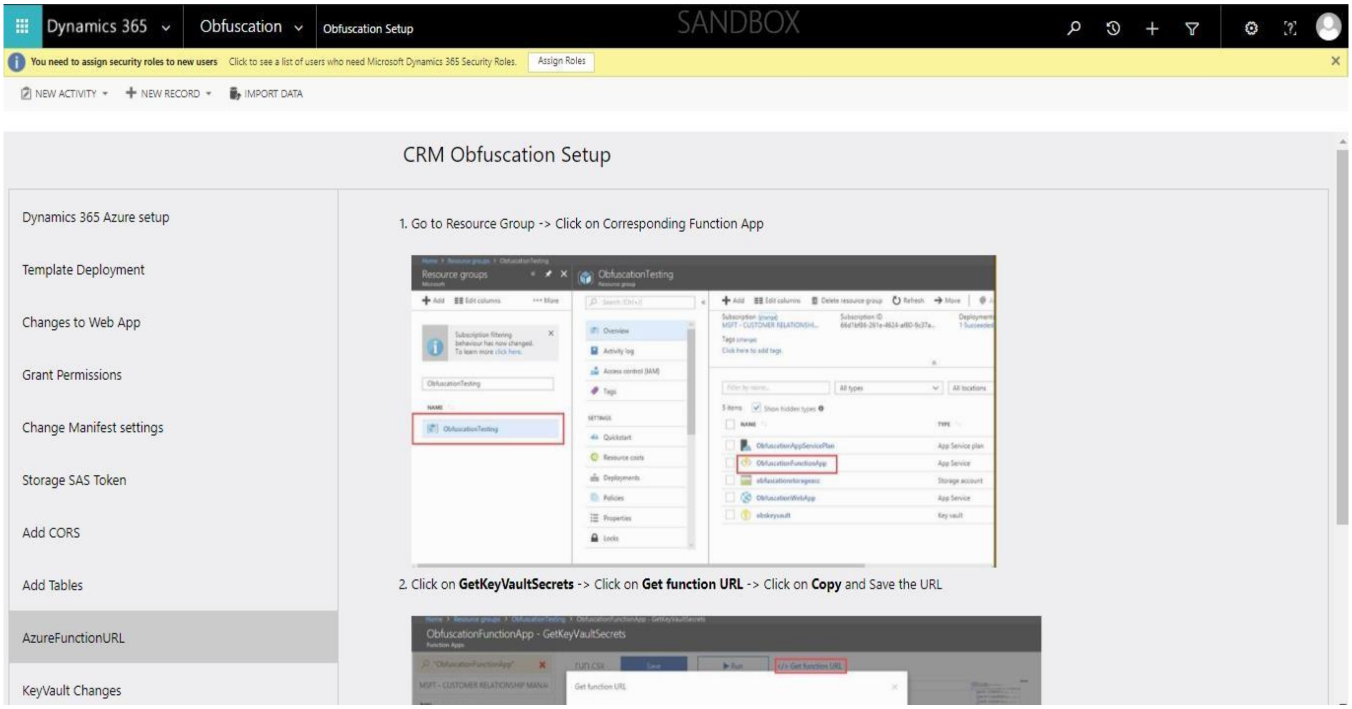
2. Create All below listed tables in Table Service

. ObfuscationAgent

. ObfuscationTag

AzureFunctionURL

Go to **Sales|Obfuscation|Obfuscation Setup |AzureFunctionURL** to create and save the azure function URL.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

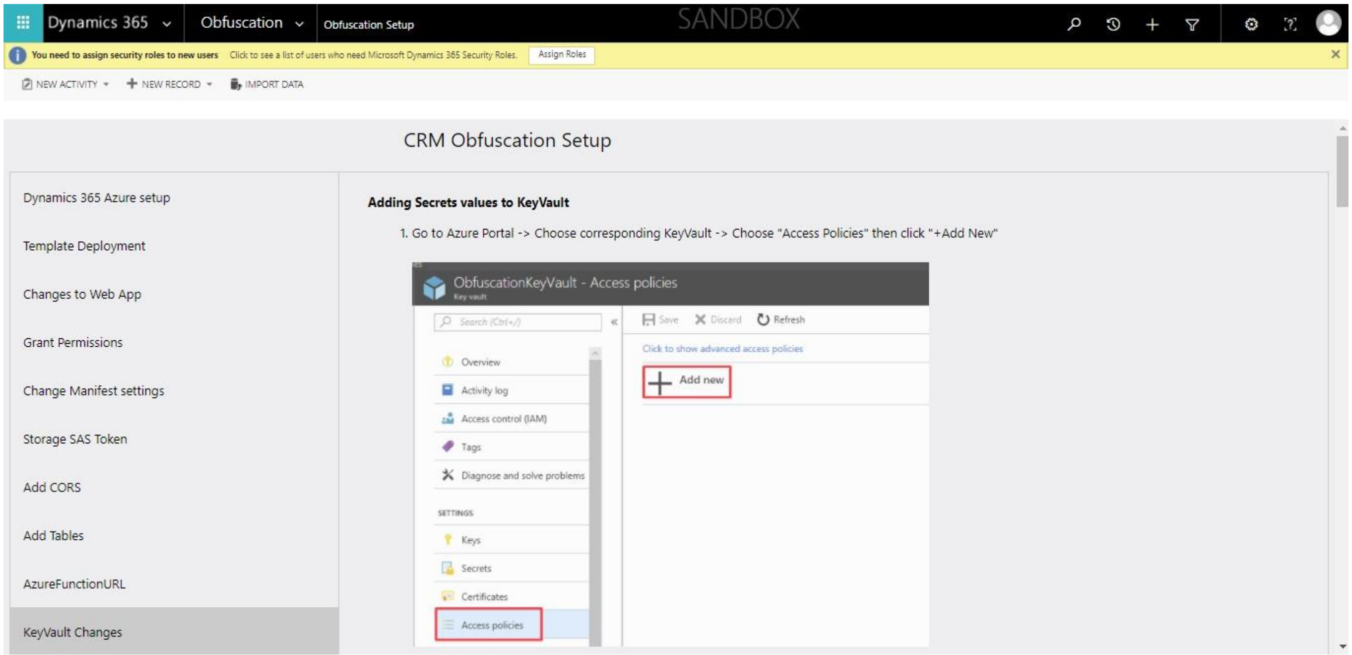
CRM Obfuscation Setup

1. Go to Resource Group -> Click on Corresponding Function App

2. Click on **GetKeyVaultSecrets** -> Click on **Get function URL** -> Click on **Copy** and Save the URL

Key Vault Manual Steps

Go to **Sales|Obfuscation|Obfuscation Setup |Key Vault Manual Steps** and add secrets under key vault.



You need to assign security roles to new users Click to see a list of users who need Microsoft Dynamics 365 Security Roles.

CRM Obfuscation Setup

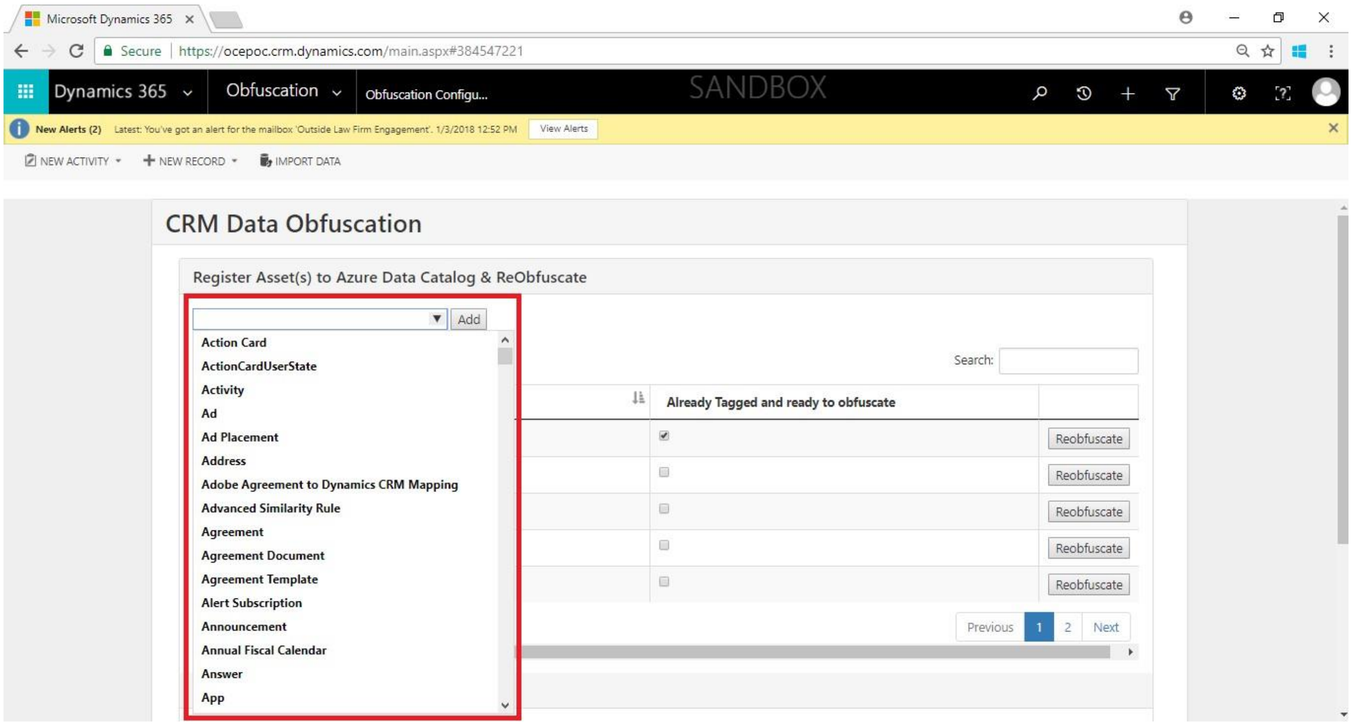
Adding Secrets values to KeyVault

1. Go to Azure Portal -> Choose corresponding KeyVault -> Choose "Access Policies" then click "+Add New"

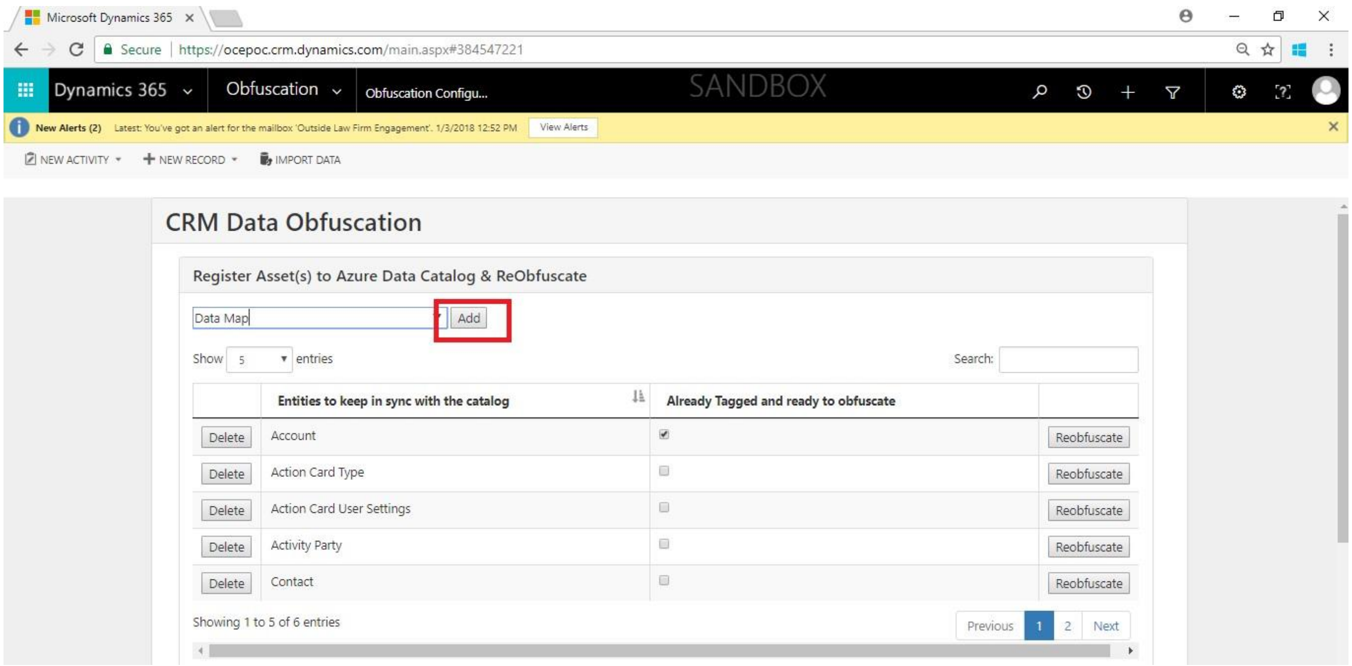
Obfuscation Configuration in CRM

Adding Entity for Obfuscation

1. Go to Obfuscation Configuration page and click on the drop down under register Asset(s) to Azure Data Catalog & ReObfuscate. All available entity will appear in the drop down.



2. Click on Entity name which you want to register and Click on Add Button.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA
CRM Data Obfuscation
Register Asset(s) to Azure Data Catalog & ReObfuscate
Data Map
Add
Show 5 entries
Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Account	☑	Reobfuscate
Delete	Action Card Type	□	Reobfuscate
Delete	Action Card User Settings	□	Reobfuscate
Delete	Activity Party	□	Reobfuscate
Delete	Contact	□	Reobfuscate

Showing 1 to 5 of 6 entries

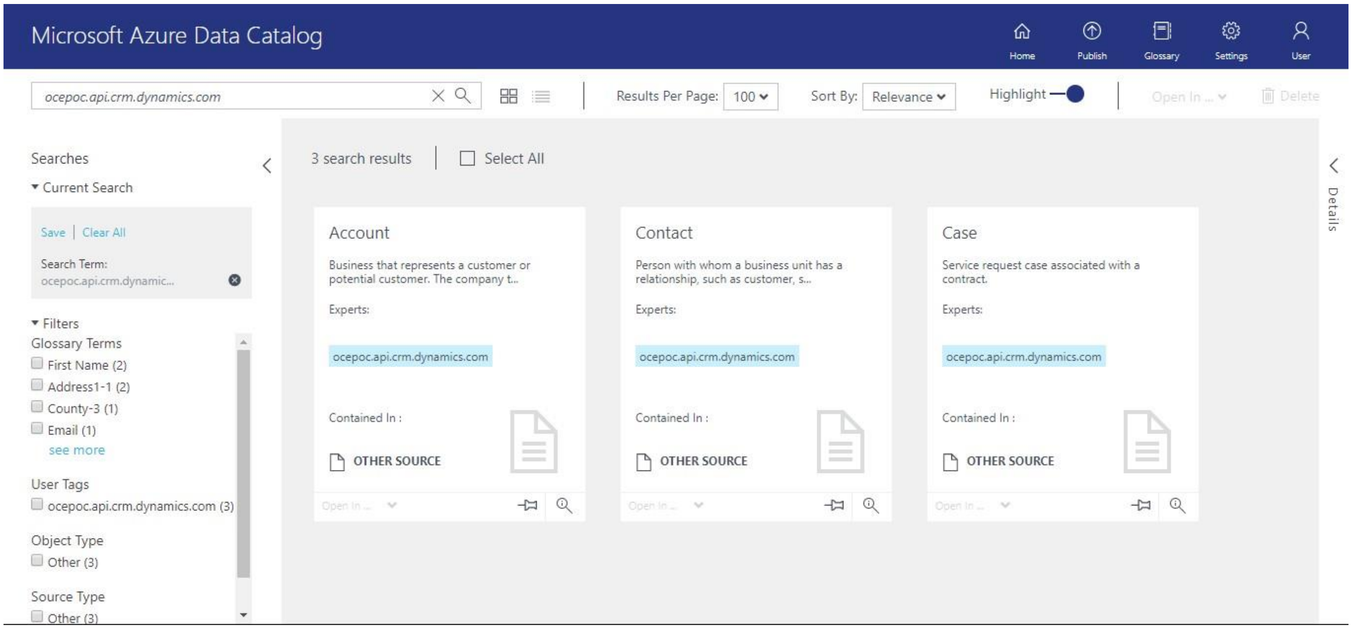
3. Selected Entity gets added into the grid. Entity can be deleted or Reobfuscate.
   Delete: Deletes the entity from the list
   Reobfuscate: Clicking on this button will Re-Obfuscate the previously Obfuscated entities.

4. Navigate to Azure data catalog to add tags to the Selected entity. Enter the org name in the format of ***'org.api.crm.dynamics.com'*** to find out the listed entities in Azure Catalog. Pls. note that this entity related information must be pushed by the sync job. **By default, Web Job Sync**

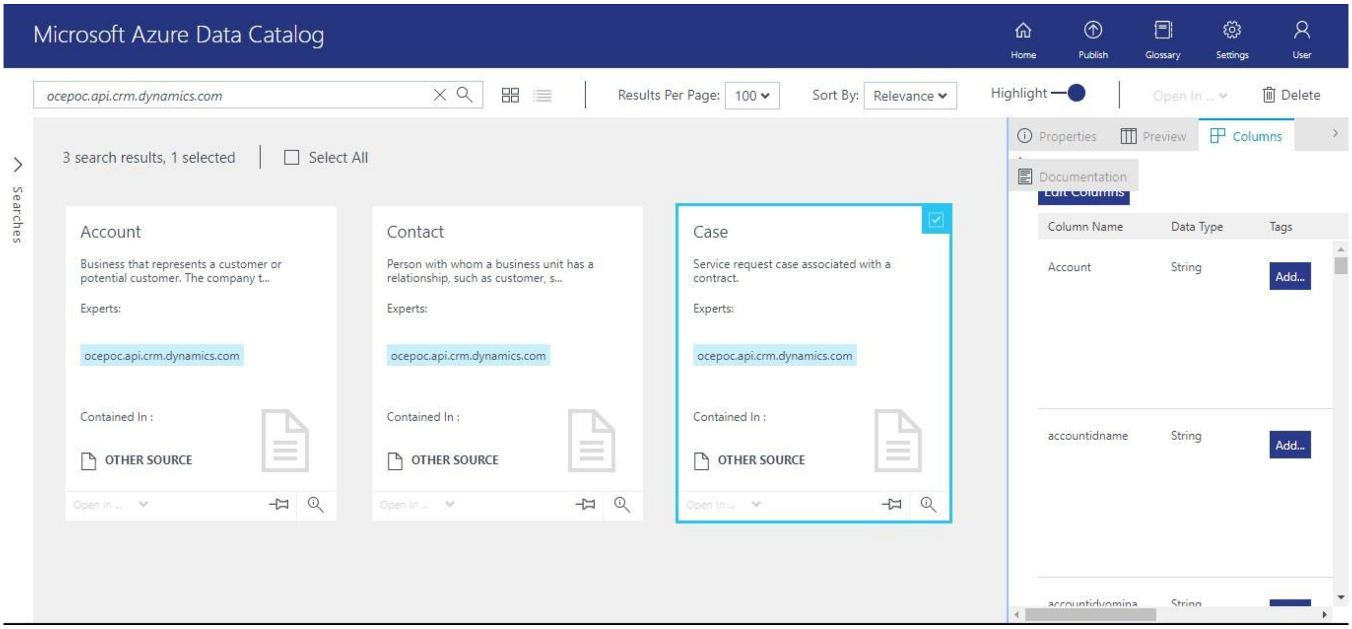
data between Azure Data Catalog and CRM will run on first minute in every hour and web job Obfuscation starts every 30th minute of every hour.

This is configurable in Resource groups | Select the Resource Group | Select App Service | Select App Settings | Change Sync Schedule or Obfuscation schedule (chronic expression)

Click on the displayed entity to add the tags

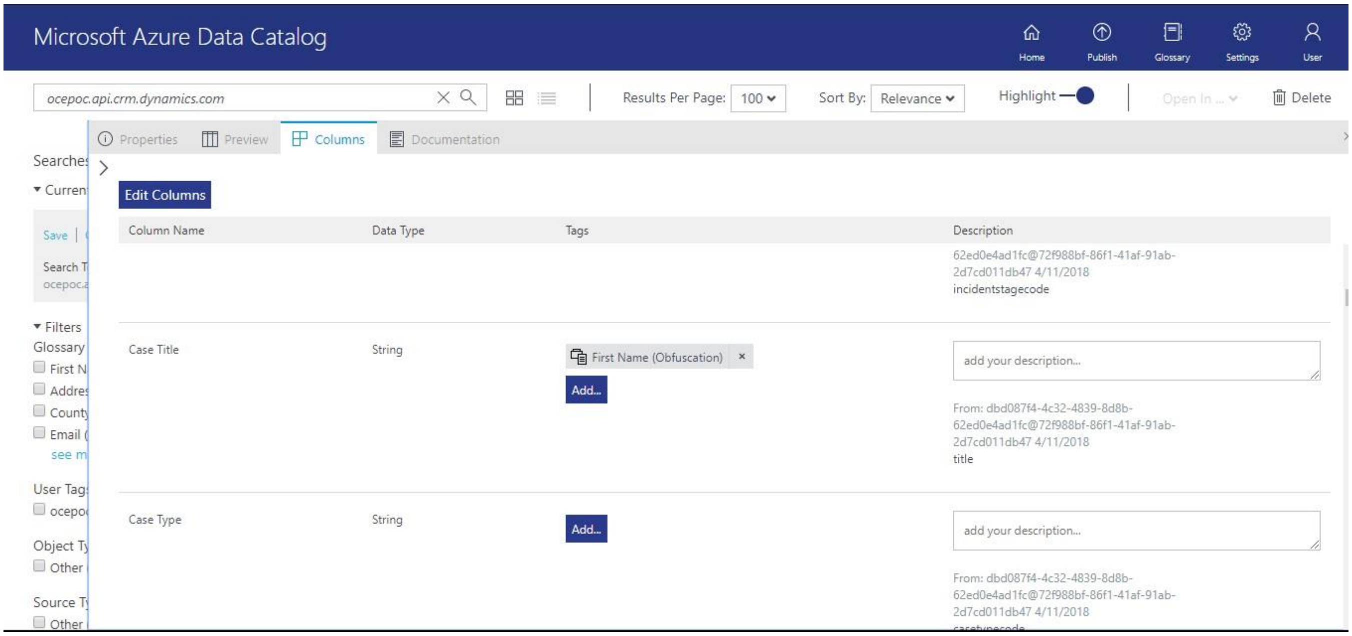


Select the entity and click on right side top 'Columns'


Microsoft Azure Data Catalog
Home
Publish
Glossary
Settings
User
ocepoc.api.crm.dynamics.com
Results Per Page: 100
Sort By: Relevance
Highlight
Open In ...
Delete
Searches
3 search results, 1 selected
Select All
Account
Business that represents a customer or potential customer. The company t...
Experts:
ocepoc.api.crm.dynamics.com
Contained In :
OTHER SOURCE
Contact
Person with whom a business unit has a relationship, such as customer, s...
Experts:
ocepoc.api.crm.dynamics.com
Contained In :
OTHER SOURCE
Case
Service request case associated with a contract.
Experts:
ocepoc.api.crm.dynamics.com
Contained In :
OTHER SOURCE
Open In ...
Properties
Preview
Columns
Documentation
Edit Columns

Column Name	Data Type	Tags
Account	String	Add...
accountidname	String	Add...
accountidyomina	String	

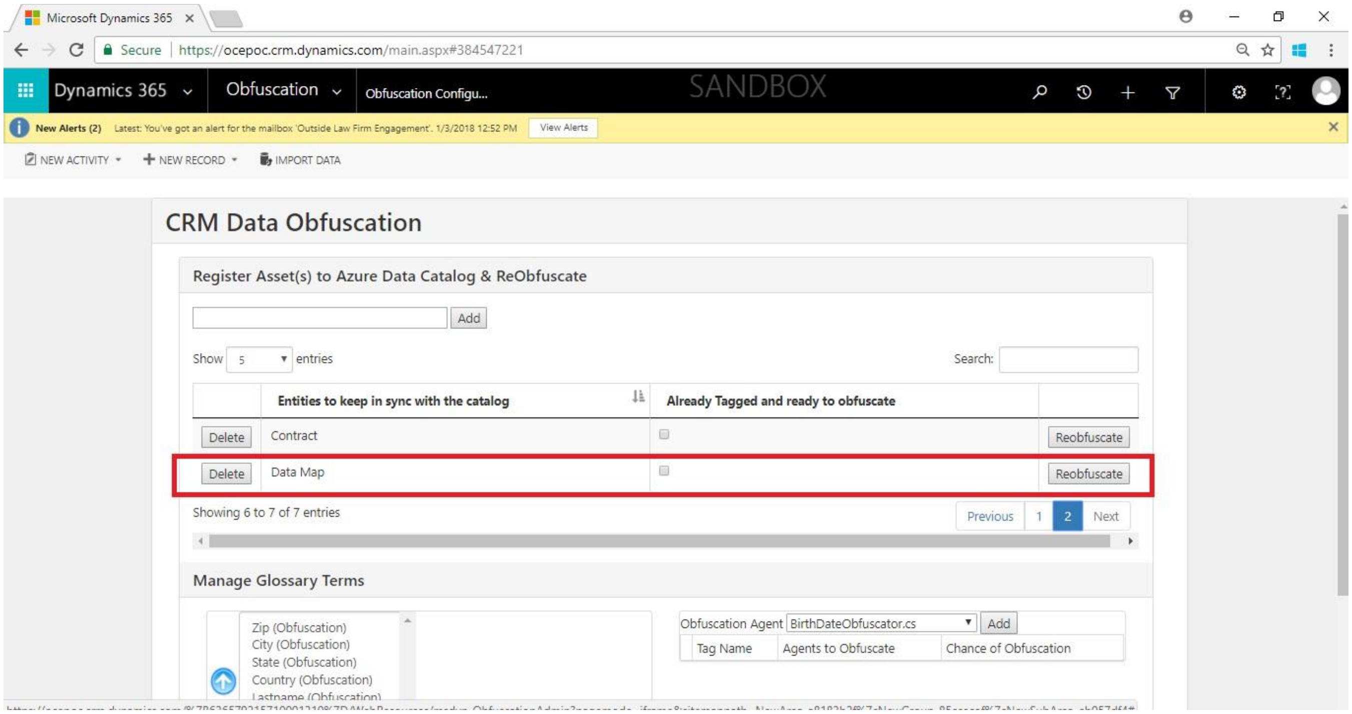
Add the catalog. In the below example We have added First Name Tag to Case Title column of Case entity.



Column Name	Data Type	Tags	Description
			62ed0e4ad1fc@72f988bf-86f1-41af-91ab-2d7cd011db47 4/11/2018 incidentstagecode
Case Title	String	First Name (Obfuscation) × Add...	add your description... From: dbd087f4-4c32-4839-8d8b-62ed0e4ad1fc@72f988bf-86f1-41af-91ab-2d7cd011db47 4/11/2018 title
Case Type	String	Add...	add your description... From: dbd087f4-4c32-4839-8d8b-62ed0e4ad1fc@72f988bf-86f1-41af-91ab-2d7cd011db47 4/11/2018 casetypecode

Now Switch back to CRM to select the tag in Manage Glossary Terms.

Agent.Cs : These are the actual agents written in C# to use obfuscation on the selected obfuscator column.


Microsoft Dynamics 365
Secure
https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2)
Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA

CRM Data Obfuscation

Register Asset(s) to Azure Data Catalog & ReObfuscate

Add

Show 5 entries   Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	□	Reobfuscate

Showing 6 to 7 of 7 entries   Previous 1 2 Next

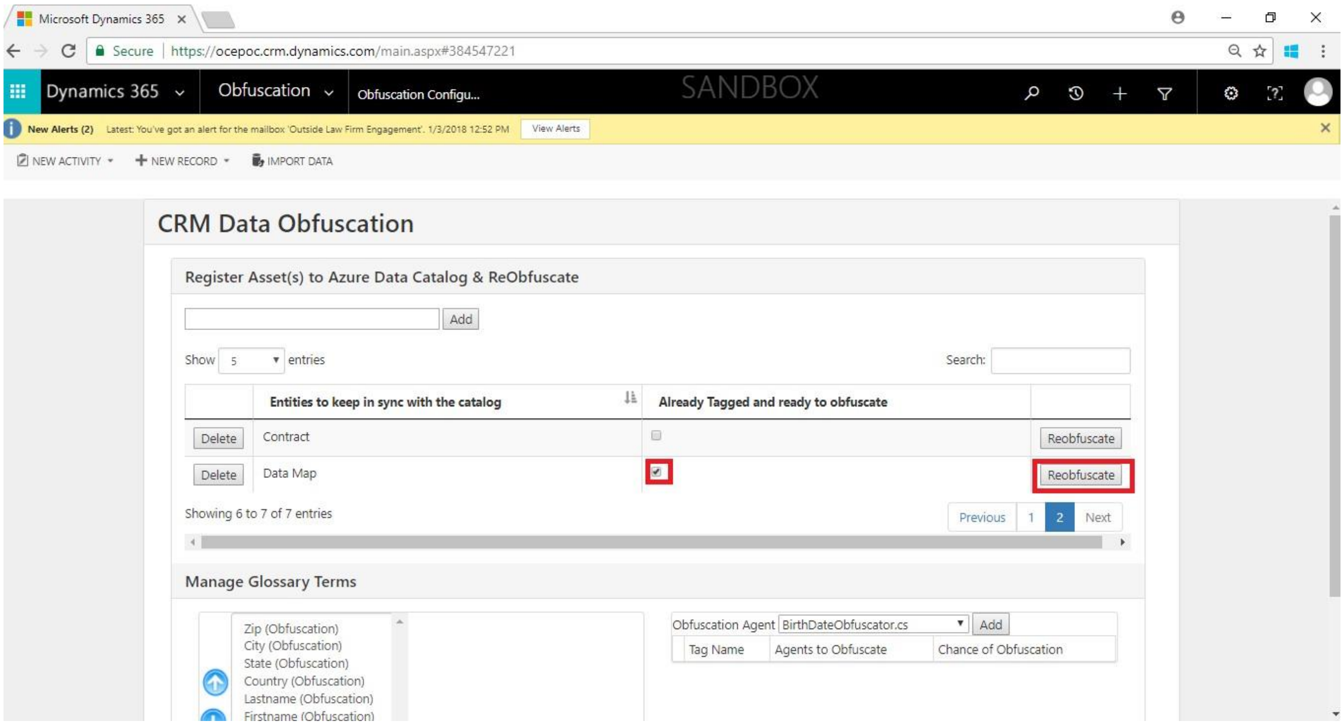
Manage Glossary Terms

Zip (Obfuscation)
City (Obfuscation)
State (Obfuscation)
Country (Obfuscation)
Lastname (Obfuscation)

Obfuscation Agent BirthDateObfuscator.cs Add

Tag Name	Agents to Obfuscate	Chance of Obfuscation

5. For ReOfuscation, checked Already Tagged and ready to obfuscate check box and Click on ReObfuscate button.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA

CRM Data Obfuscation

Register Asset(s) to Azure Data Catalog & ReObfuscate

Show 5 entries Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

Showing 6 to 7 of 7 entries

Previous 1 2 Next

Manage Glossary Terms

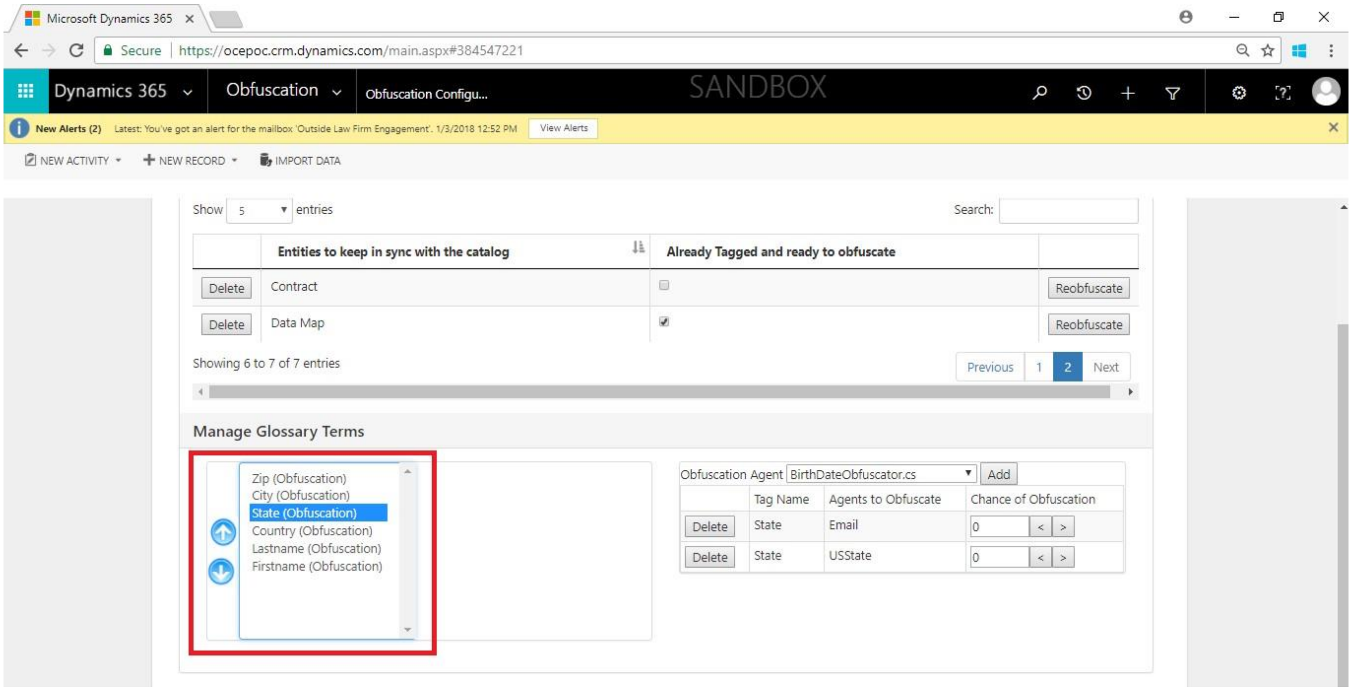
Zip (Obfuscation)
City (Obfuscation)
State (Obfuscation)
Country (Obfuscation)
Lastname (Obfuscation)
Firstname (Obfuscation)

Obfuscation Agent BirthDateObfuscator.cs Add

Tag Name	Agents to Obfuscate	Chance of Obfuscation

Glossary Term Execution Order

1. Glossary term combo box appearing under Manage Glossary Term can be set with a sequence number by moving it up or down on a specific position.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
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Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA

Show 5 entries Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

Showing 6 to 7 of 7 entries

Previous 1 2 Next

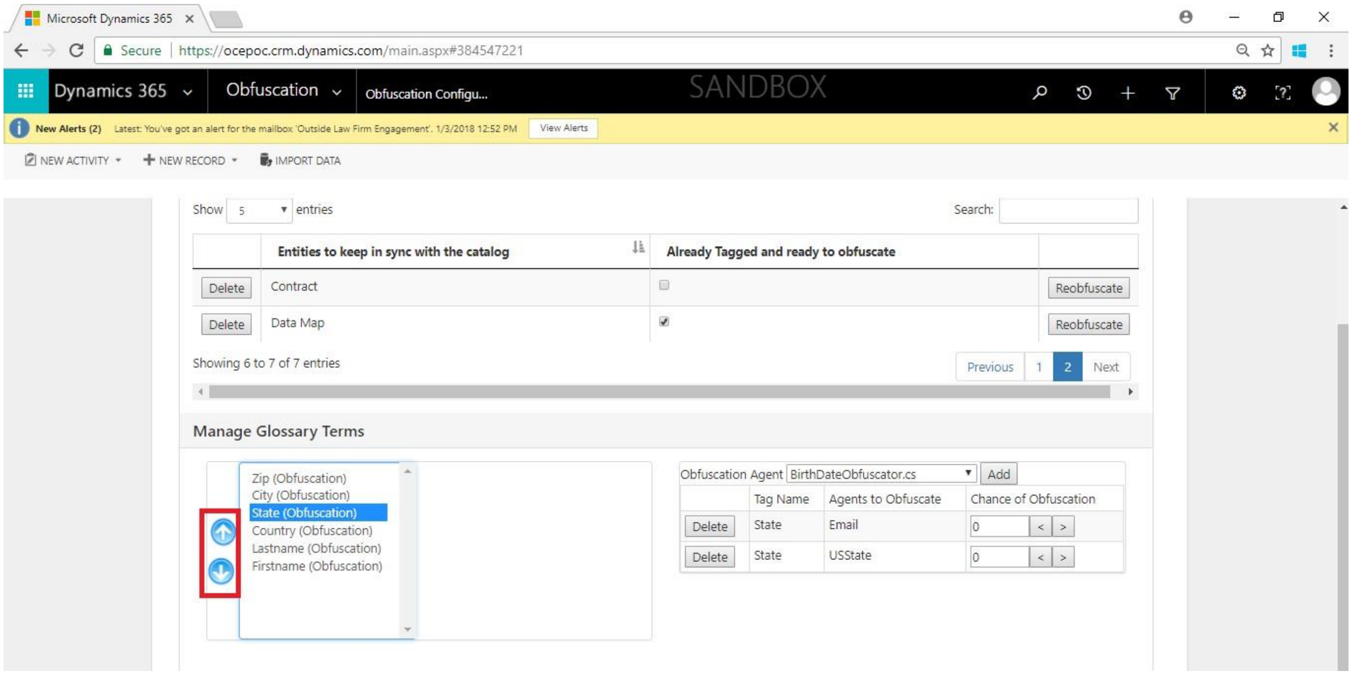
Manage Glossary Terms

Zip (Obfuscation)
City (Obfuscation)
State (Obfuscation)
Country (Obfuscation)
Lastname (Obfuscation)
Firstname (Obfuscation)

Obfuscation Agent BirthDateObfuscator.cs Add

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	State	Email	0 < >
Delete	State	USState	0 < >

2. Clicking on Move Up or Move down will move up or down the glossary and set the execution order as per the sequence number of combo box.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA
Show 5 entries
Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

Showing 6 to 7 of 7 entries

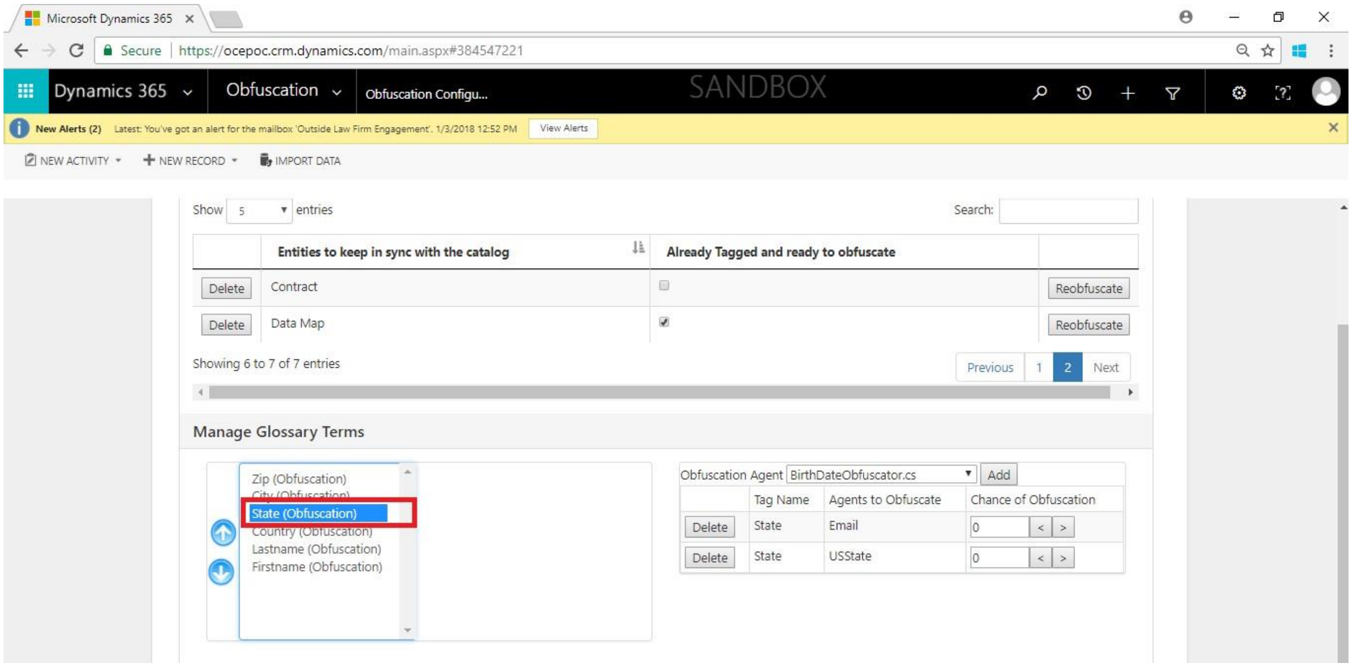
Manage Glossary Terms

Obfuscation Agent BirthDateObfuscator.cs Add

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	State	Email	0 < >
Delete	State	USState	0 < >

Adding a new Glossary – Obfuscation Agent

1. Select any Glossary Term.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA
Show 5 entries
Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

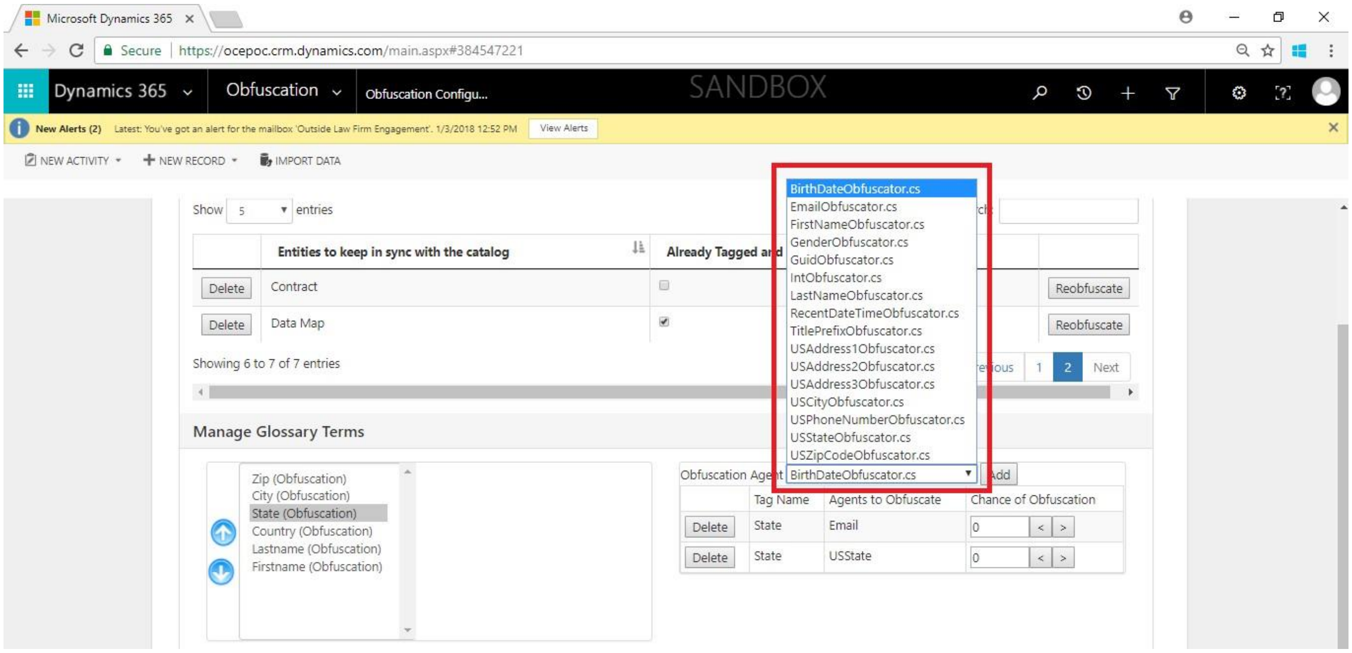
Showing 6 to 7 of 7 entries

Manage Glossary Terms

Obfuscation Agent BirthDateObfuscator.cs Add

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	State	Email	0 < >
Delete	State	USState	0 < >

2. Select any Obfuscation Agent that is not exist in the grid below to Agent drop down. If you try to add the combination which is already exist, it will not allow you to add the same.



	Entities to keep in sync with the catalog	Already Tagged ar	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

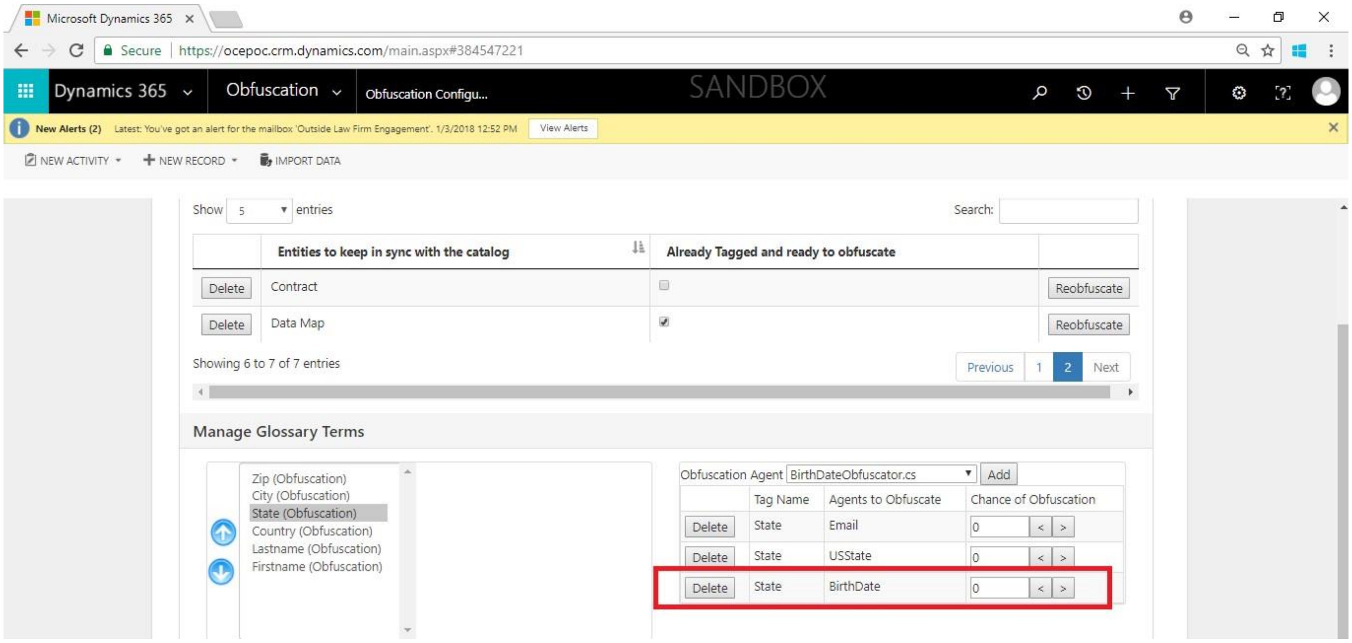
Showing 6 to 7 of 7 entries

Manage Glossary Terms

Obfuscation Agent BirthDateObfuscator.cs

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	State	Email	0 < >
Delete	State	USState	0 < >

3. Click on the Add button. It will add a new row in the grid with weight as 0.



	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	□	Reobfuscate
Delete	Data Map	☑	Reobfuscate

Showing 6 to 7 of 7 entries

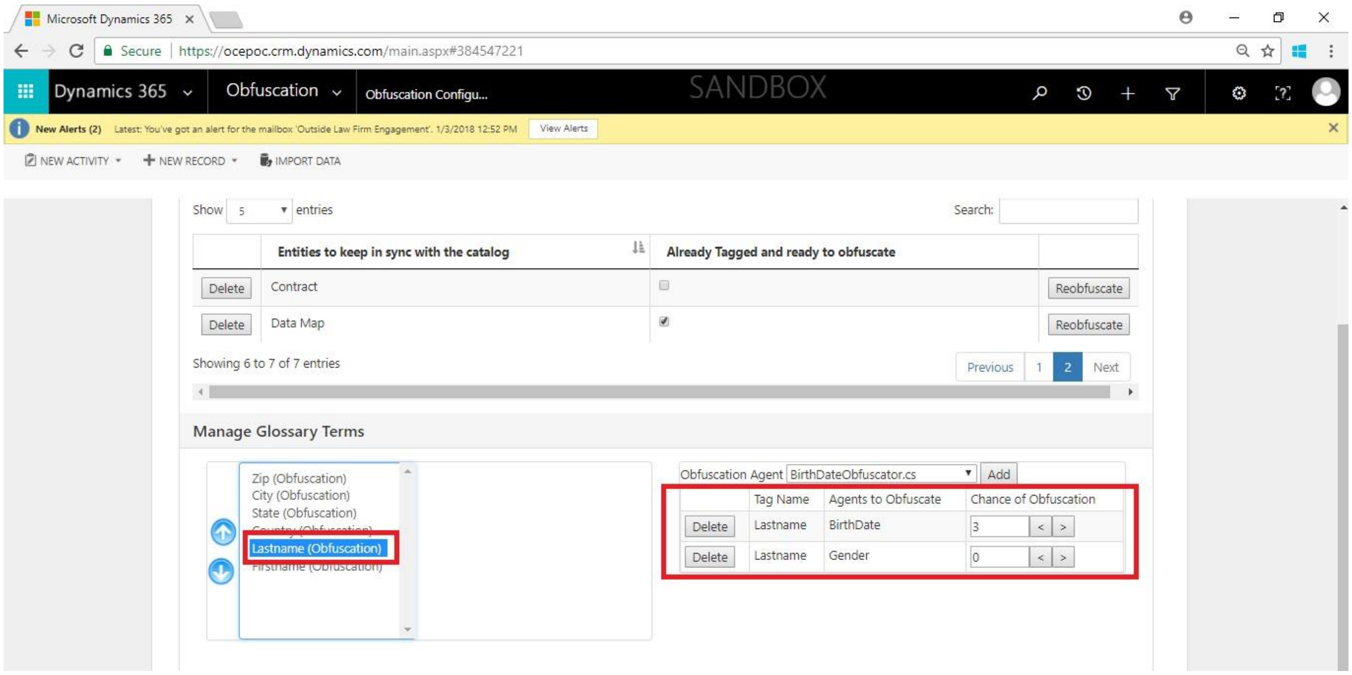
Manage Glossary Terms

Obfuscation Agent BirthDateObfuscator.cs

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	State	Email	0 < >
Delete	State	USState	0 < >
Delete	State	BirthDate	0 < >

Edit a Glossary term – Obfuscation Agent combination

1. Select Glossary term and the grid will start showing all Obfuscation Agent with their respective weight.


Microsoft Dynamics 365
Secure | https://ocepoc.crm.dynamics.com/main.aspx#384547221
Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA

Show 5 entries Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contract	☐	Reobfuscate
Delete	Data Map	☑	Reobfuscate

Showing 6 to 7 of 7 entries Previous 1 2 Next

Manage Glossary Terms

Zip (Obfuscation)
City (Obfuscation)
State (Obfuscation)
Country (Obfuscation)
Lastname (Obfuscation)
Firstname (Obfuscation)

Obfuscation Agent BirthDateObfuscator.cs Add

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	Lastname	BirthDate	3 < >
Delete	Lastname	Gender	0 < >

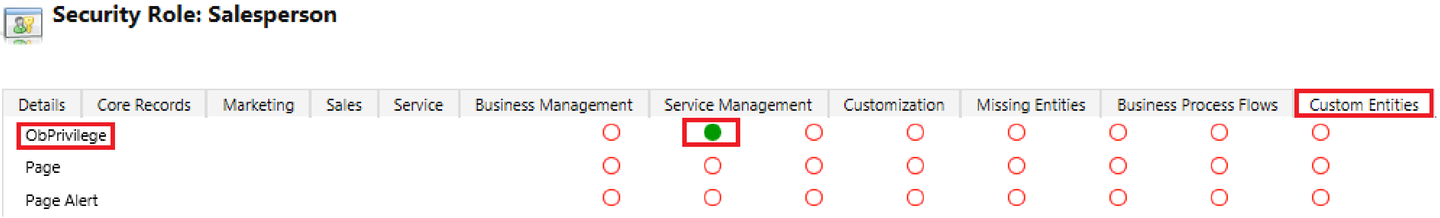
2. You can update the weight by increase/decrease it or directly entering into weight textbox. The same can be deleted by clicking on Delete button.
   This means: User have a choice to increase or decrease the obfuscation of the selected column values in the entity. If 100 selected, the agent will obfuscate all the values in the selected columns.

Least Permissions required to access Obfuscation area

This section describes providing minimal security settings permissions required for users to access **Dynamics 365 Data Tagging & Obfuscation.**

Users should be having **Read Permissions** (Least Permissions) on **ObPrivilege** entity to access Dynamics 365 Data Tagging & Obfuscation area in Sitemap. The steps to provide the minimal security settings needed on the custom entity are:

1. Login to CRM and go to **Settings | Security Roles | Select A Role**
2. Go to "**Custom Entities**" tab, **ObPrivilege** Entity, and provide Read Permissions.


Security Role: Salesperson

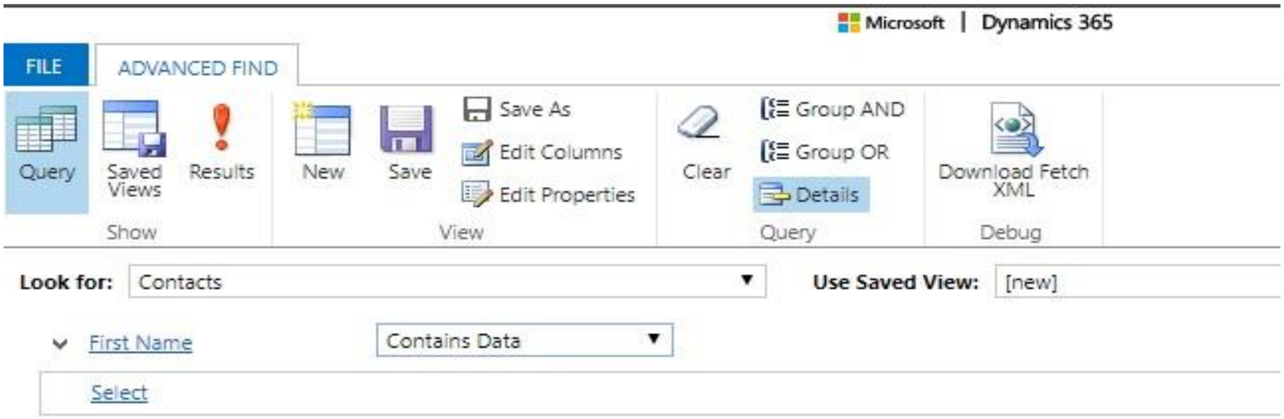
ObPrivilege	○	●	○	○	○	○	○	○
Page	○	○	○	○	○	○	○	○
Page Alert	○	○	○	○	○	○	○	○

End User Experience

In this section will obfuscate the Contact entity - First Name.

Below are the steps:

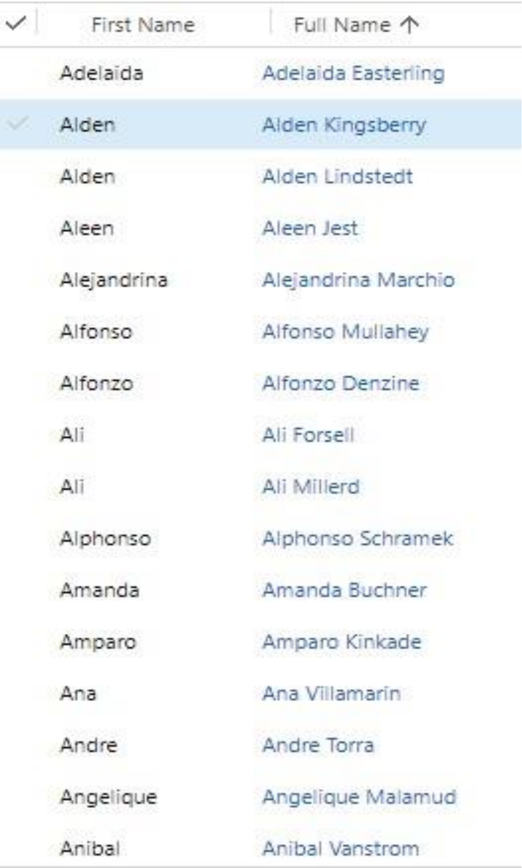
1. Through Advance Find Query, select the Contact entity – First Name values. This can be used to compare after Obfuscation.



Look for: Contacts

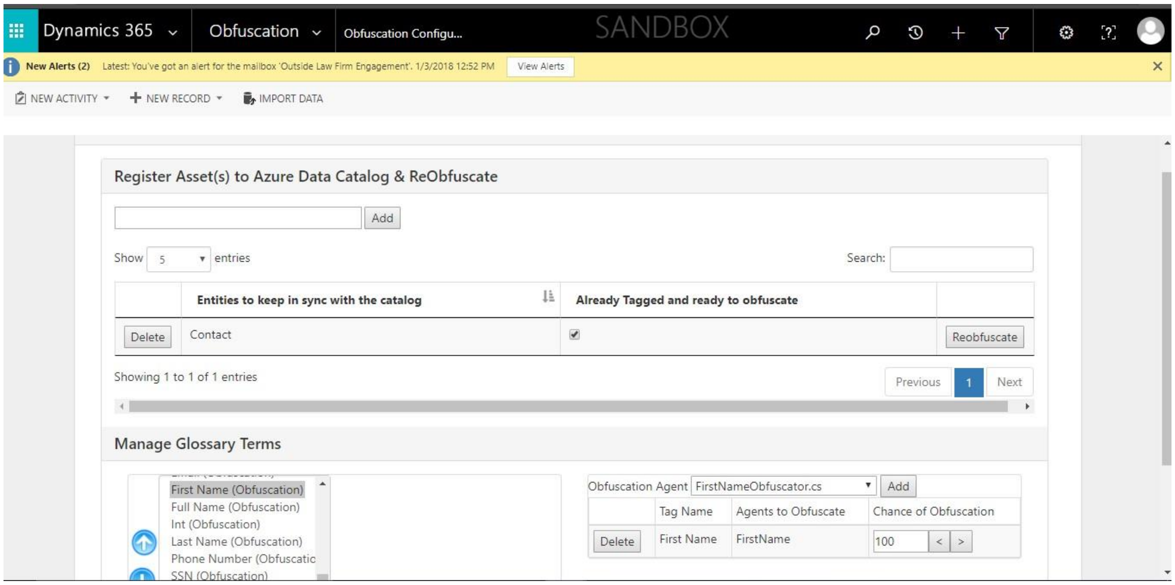
Use Saved View: [new]

First Name Contains Data



✓	First Name	Full Name ↑
	Adelaida	Adelaida Easterling
✓	Alden	Alden Kingsberry
	Alden	Alden Lindstedt
	Aleen	Aleen Jest
	Alejandrina	Alejandrina Marchio
	Alfonso	Alfonso Mullahey
	Alfonzo	Alfonzo Denzine
	Ali	Ali Forsell
	Ali	Ali Millerd
	Alphonso	Alphonso Schramek
	Amanda	Amanda Buchner
	Amparo	Amparo Kinkade
	Ana	Ana Villamarin
	Andre	Andre Torra
	Angelique	Angelique Malamud
	Anibal	Anibal Vanstrom

2. Add Contact entity in Obfuscation | Configuration page as shown below



Dynamics 365
Obfuscation
Obfuscation Configu...
SANDBOX
New Alerts (2) Latest: You've got an alert for the mailbox 'Outside Law Firm Engagement'. 1/3/2018 12:52 PM
View Alerts
NEW ACTIVITY
NEW RECORD
IMPORT DATA

Register Asset(s) to Azure Data Catalog & ReObfuscate

Add

Show 5 entries Search:

	Entities to keep in sync with the catalog	Already Tagged and ready to obfuscate	
Delete	Contact	☑	Reobfuscate

Showing 1 to 1 of 1 entries

Previous 1 Next

Manage Glossary Terms

First Name (Obfuscation)
Full Name (Obfuscation)
Int (Obfuscation)
Last Name (Obfuscation)
Phone Number (Obfuscatio
SSN (Obfuscation)

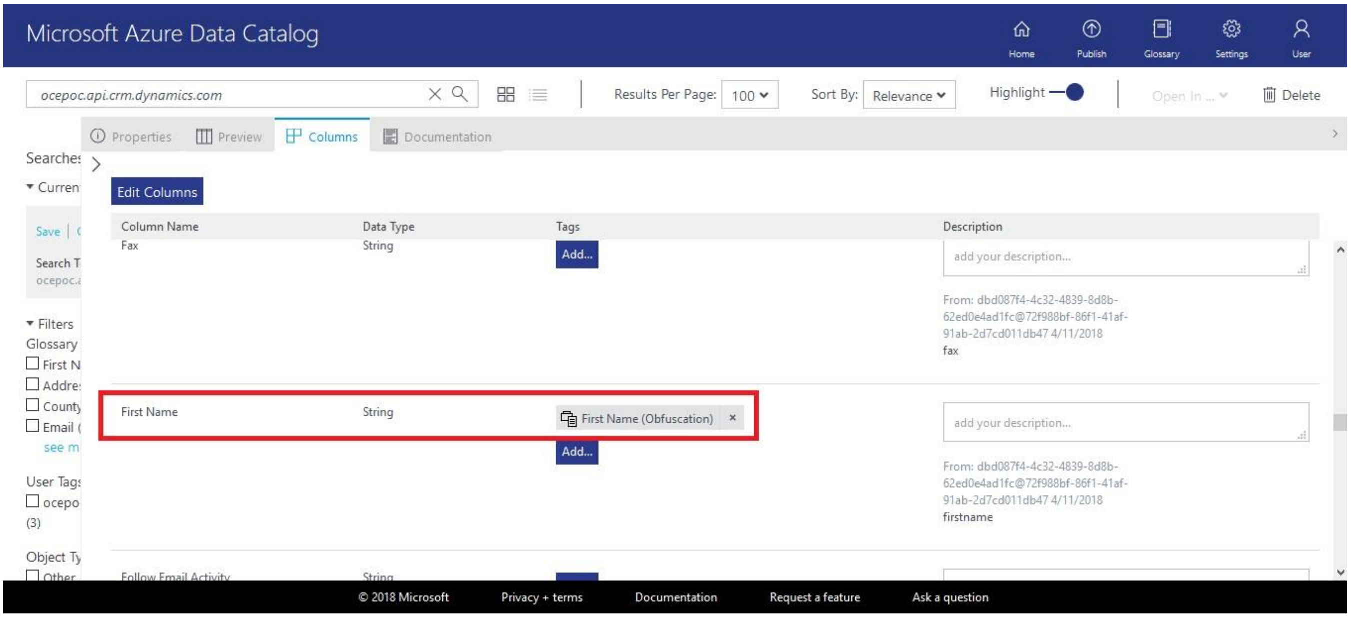
Obfuscation Agent FirstNameObfuscator.cs Add

	Tag Name	Agents to Obfuscate	Chance of Obfuscation
Delete	First Name	FirstName	100 < >

3. Tag Contact entity | First Name field in Azure Data catalog

Go to Azure Catalog | Type in Org name | Select the Contact entity | Add the 'First Name(Obfuscation) to First Name column.

Note: This column tags will be added only when obfuscation web job runs.



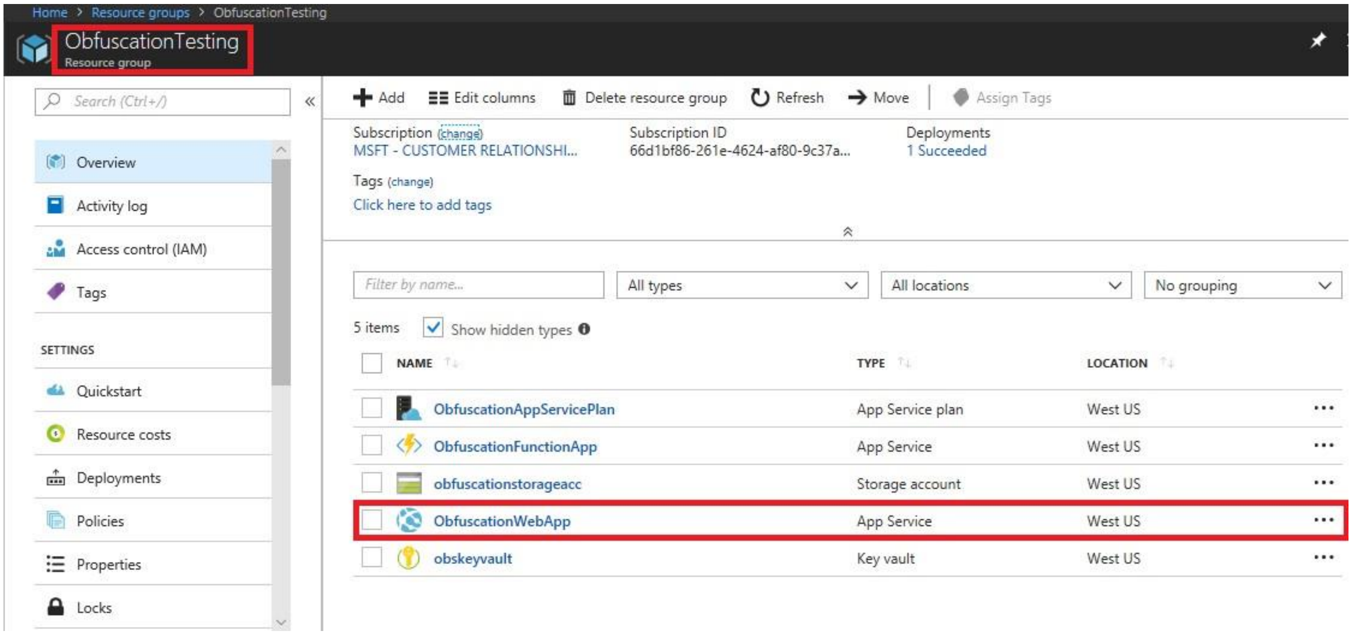
ocepoc.api.crm.dynamics.com

Results Per Page: 100 Sort By: Relevance Highlight Open In ... Delete

Column Name	Data Type	Tags	Description
Fax	String	Add...	add your description... From: dbd087f4-4c32-4839-8d8b-62ed0e4ad1fc@72f988bf-86f1-41af-91ab-2d7cd011db47 4/11/2018 fax
First Name	String	First Name (Obfuscation) × Add...	add your description... From: dbd087f4-4c32-4839-8d8b-62ed0e4ad1fc@72f988bf-86f1-41af-91ab-2d7cd011db47 4/11/2018 firstname
Follow Email Activity	String		

Wait for Obfuscation Web Job to run (Job runs on schedule).

Go to Resource Groups | Select the resource group | Select the Web App



Subscription (change)
MSFT - CUSTOMER RELATIONSHI...

Subscription ID
66d1bf86-261e-4624-af80-9c37a...

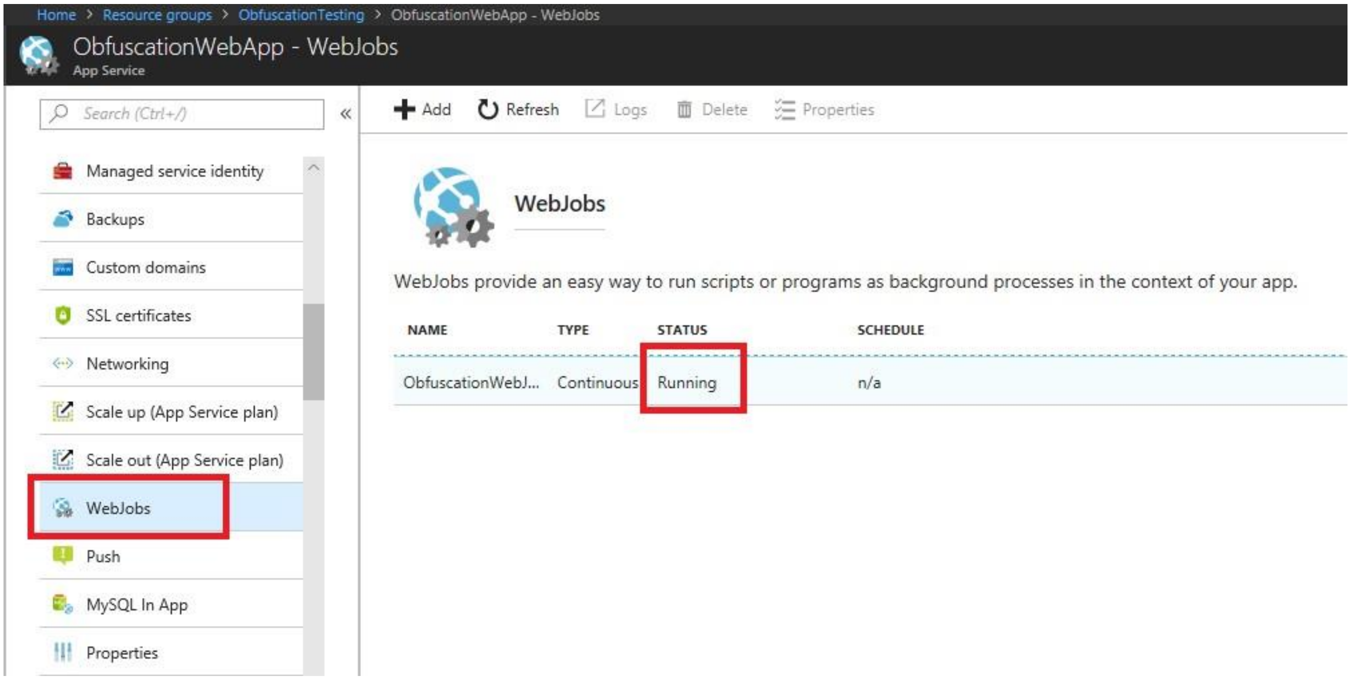
Deployments
1 Succeeded

Tags (change)
Click here to add tags

5 items ☑ Show hidden types

	NAME	TYPE	LOCATION	
□	ObfuscationAppServicePlan	App Service plan	West US	•••
□	ObfuscationFunctionApp	App Service	West US	•••
□	obfuscationstorageacc	Storage account	West US	•••
□	ObfuscationWebApp	App Service	West US	•••
□	obskeyvault	Key vault	West US	•••

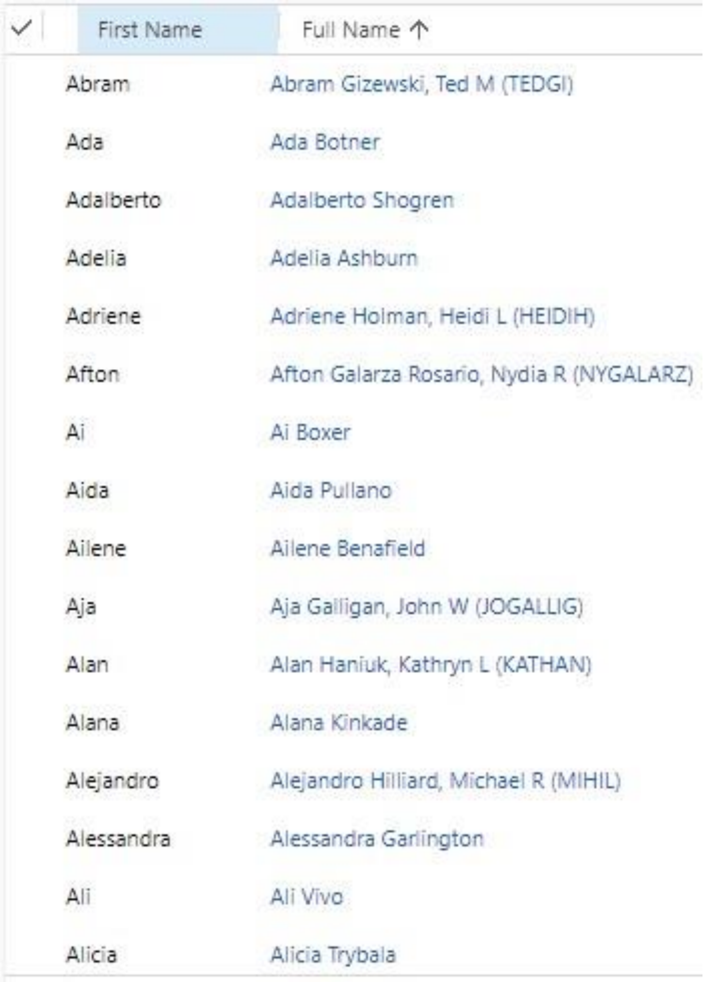
Select Web Job to make sure, Job is running



WebJobs provide an easy way to run scripts or programs as background processes in the context of your app.

NAME	TYPE	STATUS	SCHEDULE
ObfuscationWebJ...	Continuous	Running	n/a

After running the Web job on its own schedule, below are the results with obfuscated contact entity First Name values



First Name	Full Name ↑
Abram	Abram Gizewski, Ted M (TEDGI)
Ada	Ada Botner
Adalberto	Adalberto Shogren
Adelia	Adelia Ashburn
Adriene	Adriene Holman, Heidi L (HEIDIH)
Afton	Afton Galarza Rosario, Nydia R (NYGALARZ)
Ai	Ai Boxer
Aida	Aida Pullano
Ailene	Ailene Benafield
Aja	Aja Galligan, John W (JOGALLIG)
Alan	Alan Haniuk, Kathryn L (KATHAN)
Alana	Alana Kinkade
Alejandro	Alejandro Hilliard, Michael R (MIHIL)
Alessandra	Alessandra Garlington
Ali	Ali Vivo
Alicia	Alicia Trybala

End of Document