



10TH MAGNITUDE

Creating a Service Principal for Enabling Pipeline Deployments

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Creating the Service Principal via the Portal

Create the Service Principal

Prerequisite You must have global administrator privileges to create a service principal (aka register an App).

1. Open a text editor (such as NotePad or TextEdit) so that you can store specific parameters of the service principal that you need to provide to 10th Magnitude.
2. Log in to the [Azure Portal](#).
3. From the left menu, select **Azure Active Directory**.
If a menu entry for Azure Active Directory does not exist, search for it.
4. Select the **App Registrations** tile and then click **New App Registration** from the top of the page.

+ New registration | **Endpoints** | **Troubleshooting** | **Got feedback?**

Welcome to the new and improved App registrations (now Generally Available). See what's new →

Looking to learn how it's changed from App registrations (Legacy)? [Learn more](#)
Still want to use App registrations (Legacy)? [Go back and tell us why](#)

All applications | **Owned applications**

Start typing a name or Application ID to filter these results

DISPLAY NAME	APPLICATION (CLIENT) ID
TE TestAzDoServicePrincipal	



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5. Fill out the following fields in the form and then click **Register**:

Register an application

*** Name**

The user-facing display name for this application (this can be changed later).

10M-AzureDevOps-Pipeline ✓

Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory only (Cloudwidth MSDN Directory)
- ☐ Accounts in any organizational directory
- ☐ Accounts in any organizational directory and personal Microsoft accounts (e.g. Skype, Xbox, Outlook.com)

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Web https://10M-AzureDevOps-Pipeline ✓

6. When completed, you will see the Application Registration you just created.

- Copy the **Display Name** into the text document.
- Copy the **Application (client) ID** and **Directory (tenant) ID** into the text document.

Display name

10M-AzureDevOps-Pipeline

Application (client) ID

a63b745e-7993-4ad0-a60d-d63011d3340d

Directory (tenant) ID

8054a641-682b-4d1b-8770-079c08515a05

Object ID

5dcde8d4-676c-4af9-834a-59ebca5d3d05

Supported account types

Multiple organizations

Redirect URIs

1 web, 0 public client

Managed application in local directory

10M-AzureDevOps-Pipeline





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- Click **Certificates & secrets** from the left menu, then select **New client secret**.
 - Add a key description of **10MPipelineDeployments**. Make sure there are no spaces.
 - Select a **1 year** duration.

Add a client secret

Description

10MPipelineDeployments

Expires

- ☒ In 1 year
☐ In 2 years
☐ Never

Add


Cancel

- Click **Add**. A value is generated.
- Copy the VALUE into the text document. (Note: Copy the Value now before leaving this screen as the value will become hidden once you come back to this screen after leaving it.)

Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

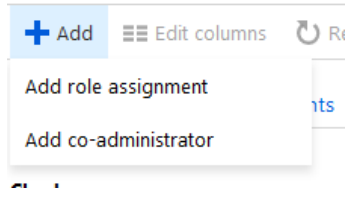
DESCRIPTION	EXPIRES	VALUE
10MPipelineDeployments	7/24/2020	-Ah9Vq5_3.wZnzGQ-7x]p?urJ*V7v]vp 

- Send text document with information copied from this procedure to 10th Magnitude.

Adding Service Principal as a contributor in your Subscription

- In the Azure Services menu of the [Azure Portal](#), go to **All Services > Subscriptions**.
- Select the Subscription name from the list to open it.
- Select **Access Control (IAM)** from the menu on the left. and click **Add**. Select **Add role assignment**.





4. Fill out the fields as follows:

- Select Contributor from the **Role** drop-down menu.
- Leave **Assign access to** field as “Azure AD user, group or service principal”
- In the **Select** field enter “10M-AzureDevops-Pipeline” and click to select it in the search results.
- Click the **Save** button

Add role assignment
×

Role ⓘ

Contributor

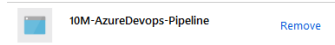
Assign access to ⓘ

Azure AD user, group, or service principal

Select ⓘ

10M-AzureDevops-Pipeline ✓

Selected members:



Save

Discard



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Creating the Service Principal via the Azure CLI

1. Open a command prompt and log into your subscription using the Azure CLI

```
az login
```

2. Validate you are connected to the correct subscription by issuing the following:

```
az account show
```

```
{
  "cloudName": "AzureCloud",
  "id": "00000000-0000-0000-0000-000000000000",
  "isDefault": true,
  "name": "PAYG Subscription",
  "state": "Enabled",
  "tenantId": "00000000-0000-0000-0000-000000000000",
  "user": {
    "name": "user@example.com",
    "type": "user"
  }
}
```

3. If you are not connected to the correct subscription, issue the following command using the correct subscription ID

```
az account set --subscription="00000000-0000-0000-0000-000000000000"
```

4. Create the service principal and grant Contributor RBAC rights at the subscription level using the correct subscription ID.

```
az ad sp create-for-rbac --name "10M-AzureDevops-Pipeline " --role
contributor --scopes /subscriptions/00000000-0000-0000-0000-000000000000
{
  "appId": "00000000-0000-0000-0000-000000000000",
  "displayName": "10M-AzureDevops-Pipeline ",
  "name": "http:// 10M-AzureDevops-Pipeline ",
  "password": "0000-0000-0000-0000-000000000000",
  "tenant": "00000000-0000-0000-0000-000000000000"
}
```

5. Copy the resulting JSON-formatted output and send to 10th Magnitude.

