Service Connection Setup

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# Definitions:

**Client Environment:** Azure portal of Customer

**Azure DevOps account:** Forecasting Platform Repository

# Step1: Service Principal Creation

From Azure Portal (Client/Customer Environment) to create a Service Principal in the Client Environment, new application registration must be created as shown below:

Graphical user interface, text, application, email

Description automatically generated

Create application name(serviceprincipal-name) and select “Accounts in any organizational directory (any azure AD – Multi tenant)” under account types and create the application.

Graphical user interface, text, application, email

Description automatically generated

A new application service principal is created with the name “Serviceprincipal-name” . Client Id, tenant ID are created as shown below:

Graphical user interface, text, application

Description automatically generated

Create Client secret key (principal Key) for the application, this will be used while creating service connections in Azure DevOPS)

Graphical user interface, text, application

Description automatically generated

Add new role assignment to the service principal (Serviceprincipal-name) created (owner or contributor).

This can be done at a subscription level like below (the resource group is then created by the pipeline) OR

You can choose to create a resource group and provide role assignment at the resource group level.

Please note : If the access is owner, all the roles required by created resources are created by the pipeline else if contributor access is provided, this will have to be done by the customer manually). At subscription level, the Service Principal would need a Quota request operator role though if contributor access is used.

Graphical user interface, text, application

Description automatically generated

Choose owner for the role assignment/Selected role

Graphical user interface, application

Description automatically generated

Share the details below for Service connections:

1. Subscription Id
2. Subscription Name
3. Service Principal Id
4. Tenant ID
5. Service principal key
6. App Registration Display name (to use in infra pipeline parameters)

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# Step 2: Service Connection in DevOPS:

From Azure DevOPS (Microsoft REPO), create a service connection as shown below:

Graphical user interface, application, Teams

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Select Azure Resource Manager as the connection type. Click Next:

Graphical user interface, text, application, email

Description automatically generated

Select Authentication Method as Service principal (manual). Click Next.

Graphical user interface, text, application

Description automatically generated

Configure all the Service Principal details (“serviceprincipal-name”) created in step 1 in below screen:

Graphical user interface, text, application

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

Verify and save the connection.

**Note**: Grant required permissions to the Service Principal for all the client azure resources. Owner will be required for the Infra Setup as role assignments will be done by the Service Principal else Contributor access would mean manual role assignments will have to be done.