



Deploy to Microsoft Azure

You can use Bitbucket Pipelines with Microsoft Azure in a variety of ways using [pipes](#).

We have the following Azure pipes:

- Azure ARM deploy - [Deploy resources to Azure using Azure Resource Manager templates](#).
- Azure CLI Run - [Run commands using the Azure CLI](#).
- Azure Functions Deploy - [Deploy Azure function code](#).
- Azure Kubernetes Service deploy - [Deploy to AKS \(Azure Kubernetes Service\) using Kubectl](#).
- Azure Kubernetes Service Helm deploy - [Deploy to AKS \(Azure Kubernetes Service\) using Helm](#).
- Azure Storage deploy - [Deploy to Microsoft Azure Storage](#).
- Azure VM Linux Script Deploy - [Run scripts on Azure VM using Custom Script Extension Version 2](#).
- Azure VM Scale Set Linux script deploy - [Run scripts on Azure VM Scale Set using Custom Script Extension Version 2](#).
- Azure Web Apps containers deploy - [Deploy a container to Azure Web Apps](#).
- Azure Web Apps deploy -[Deploy an application to Azure Web Apps](#).

If you'd like some guidance on how to set up your `bitbucket-pipelines.yml` with these pipes, have a peek at the repositories:

- [example-azure-aks-deploy](#)
- [example-azure-aks-helm-deploy](#)
- [example-azure-arm-deploy](#)
- [example-azure-cli-run](#)
- [example-azure-functions-deploy](#)
- [example-azure-web-apps-containers-deploy](#)
- [example-azure-web-apps-deploy](#)

Before you use the pipes you need to do some configuration:

Set up your credentials

First you will need to configure your Azure resources. The most common way to do it is by using the Azure CLI. You can either [install the Azure CLI](#) on your local machine, or you can use the [Azure Cloud Shell](#) provided by the Azure Portal in a browser.

Create a service principal

You will need create a service principal with enough access to create an Azure App Service app. A service principal is an identity you can use in tools to interact with Azure. Use the following command to create a service principal.

```
1 az ad sp create-for-rbac --name <name for your principal>
```

This will give you a list of values that you can add to your [variables](#) in Bitbucket (in repository > **Settings** > **Repository variables**).

Where:

- appId → AZURE_APP_ID
- password → AZURE_PASSWORD
- tenant → AZURE_TENANT_ID

Find out more from the [Azure docs on creating a service principle](#).

You are now ready to use the Azure pipes, just edit your `bitbucket-pipelines.yml` file online to select the pipe from the editor, or copy and paste the script directly from a pipe repository.

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