

# Azure Serverless Deployment

This playbook provides a detailed procedure to build and deploy serverless applications using Azure Functions. It covers the creation, testing, and deployment of Azure Functions.

## Step 1: **Setup**

Create an Azure account and set up the Azure CLI on your local machine. Ensure you have the necessary permissions to create and manage Azure resources.

## Step 2: **Create Function App**

Use the Azure portal or Azure CLI to create a new Function App. Assign it a unique name, select a runtime stack, choose a region, and configure hosting settings.

## Step 3: **Develop Function**

Write the function code using the preferred language (e.g., C#, JavaScript) in your local development environment or directly in the Azure portal.

## Step 4: **Test Locally**

Run and test your function locally using tools like the Azure Functions Core Tools or Visual Studio Code to ensure it behaves as expected.

## Step 5: **Deploy Function**

Deploy the function to Azure using the Azure portal, Azure CLI, or GitHub Actions for continuous deployment. Ensure all function settings are configured as needed.

## Step 6: **Monitor**

Once deployed, monitor function performance and execution logs using Azure Monitor and Application Insights to resolve any issues and ensure smooth operation.

## Step 7: **Update**

To update the function, make changes in your local environment, retest, and then redeploy using the same deployment method as before.

# **General Notes**

## **Account**

An active Azure subscription is required to deploy Azure Functions. If you don't have one, you'll need to sign up for an Azure free account.

## **Function Limits**

Be aware of the consumption plan's limits and the costs associated with the premium and dedicated (App Service) plans.

## Security

Ensure to configure authentication, authorization, and connections to other services securely using Managed Identities and secure Application Settings.

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