# 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.