

# Exercise - Configure, deploy, and run in Azure

12 minutes

Sandbox activated! Time remaining: **26 min**

You have used 1 of 10 sandboxes for today. More sandboxes will be available tomorrow.

Choose your development language

C#

JavaScript

Now it's time to run our app in Azure. We need to create an Azure App Service app, set it up with a managed identity and our vault configuration, and deploy our code.

## Create the App Service plan and app

Creating an App Service app is a two-step process: First create the *plan*, then the *app*.

The *plan* name only needs to be unique within your subscription, so you can use the same name we've used: **keyvault-exercise-plan**. The app name needs to be globally unique, though, so you'll need to pick your own.

In Azure Cloud Shell, run the following to create an App Service plan:

Azure CLI

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```
az appservice plan create \  
  --name keyvault-exercise-plan \  
  --sku FREE \  
  --location centralus \  
  --resource-group learn-76815a55-2a7e-4698-98b8-1da305fa359e
```

Next, run the following command to create the Web App that uses the App Service plan you just created:

Azure CLI

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```
az webapp create \  
  --plan keyvault-exercise-plan \  
  --resource-group learn-76815a55-2a7e-4698-98b8-1da305fa359e \  
  --name <your-unique-app-name>
```

## Add configuration to the app

For deploying to Azure, we'll follow the App Service best practice of putting the VaultName configuration in an application setting instead of a configuration file. Run this command to create the application setting:

Azure CLI

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```
az webapp config appsettings set \  
  --resource-group learn-76815a55-2a7e-4698-98b8-1da305fa359e \  
  --name <your-unique-app-name> \  
  --settings 'VaultName=<your-unique-vault-name>'
```

## Enable managed identity

Enabling managed identity on an app is a one-liner — run this to enable it on your app:

Azure CLI

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```
az webapp identity assign \  
  --resource-group learn-76815a55-2a7e-4698-98b8-1da305fa359e \  
  --name <your-unique-app-name>
```

From the JSON output that results, copy the **principalId** value. PrincipalId is the unique ID of the app's new identity in Azure Active Directory, and we're going to use it in the next step.

## Grant access to the vault

The last step before deploying is to assign Key Vault permissions to your app's managed identity. Use the **principalId** value you copied from the previous step as the value for **object-id** in the command below. Running this command will grant **Get** and **List** access:

Azure CLI

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```
az keyvault set-policy \  
  --secret-permissions get list \  
  --name <your-unique-vault-name> \  
  --object-id <your-managed-identity-principleid>
```

# Deploy the app and try it out

All your configuration is set and you're ready to deploy! The below commands will publish the site to the `pub` folder, zip it up into `site.zip`, and deploy the zip to App Service.

## ⓘ Note

You'll need to `cd` back to the `KeyVaultDemoApp` directory if you're not still there.

Azure CLI

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```
dotnet publish -o pub
zip -j site.zip pub/*


az webapp deployment source config-zip \
  --src site.zip \
  --resource-group learn-76815a55-2a7e-4698-98b8-1da305fa359e \
  --name <your-unique-app-name>
```

The deployment may take a minute or two to complete. Once you get a result that indicates the site has deployed, open `https://<your-unique-app-name>.azurewebsites.net/api/SecretTest` in a browser. The app will take a moment to start up for the first time on the server, but once it does, you should see the secret value, **reindeer\_flotilla**.

Your app is finished and deployed!

## Next unit: Summary

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 English (United States)

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 Azure Cloud Shell

```
"active": true,  
"author": "N/A",  
"author_email": "N/A",  
"complete": true,  
"deployer": "Push-Deployer",  
"end_time": "2020-04-01T12:27:44.9113677Z",  
"id": "69f8737de4d14157a48cc1e817197519",  
"is_readonly": true,
```