

Lab scenario

You need to evaluate the use of Azure Web apps for hosting Contoso's web sites, hosted currently in the company's on-premises data centers. The web sites are running on Windows servers using PHP runtime stack. You also need to determine how you can implement DevOps practices by leveraging Azure web apps deployment slots.

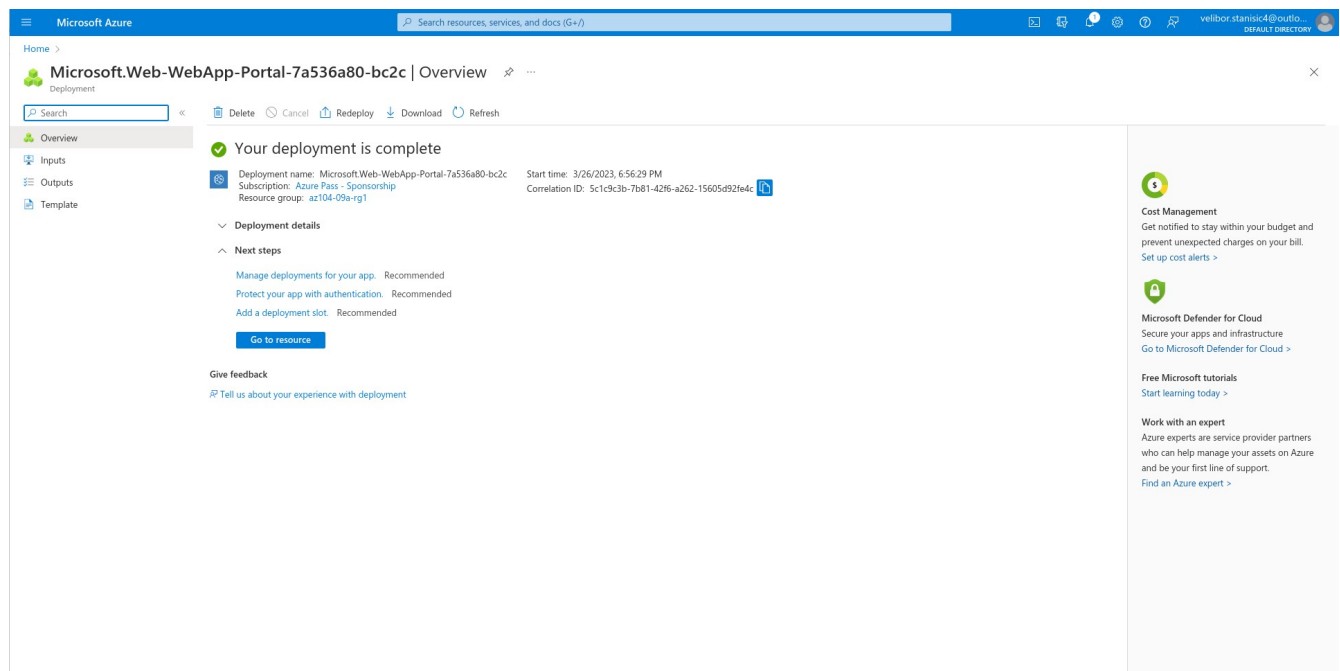
Objectives

In this lab, you will:

- Task 1: Create an Azure web app
- Task 2: Create a staging deployment slot
- Task 3: Configure web app deployment settings
- Task 4: Deploy code to the staging deployment slot
- Task 5: Swap the staging slots
- Task 6: Configure and test autoscaling of the Azure web app

Task 1: Create an Azure web app

In this task, you will create an Azure web app.



The screenshot displays the Microsoft Azure portal interface. At the top, the header shows 'Microsoft Azure' and a search bar. Below the header, the breadcrumb trail indicates 'Home > Microsoft.Web-WebApp-Portal-7a536a80-bc2c | Overview'. The main content area is titled 'Deployment' and features a search bar and action buttons: 'Delete', 'Cancel', 'Redeploy', 'Download', and 'Refresh'. A green checkmark icon and the text 'Your deployment is complete' are prominently displayed. Below this, deployment details are listed: 'Deployment name: Microsoft.Web-WebApp-Portal-7a536a80-bc2c', 'Subscription: Azure Pass - Sponsorship', 'Resource group: az104-09a-rg1', 'Start time: 3/26/2023, 6:56:29 PM', and 'Correlation ID: 5c1c9c3b-7b81-4216-a262-15605d92fe4c'. A 'Deployment details' section is expanded, showing 'Next steps' with recommendations: 'Manage deployments for your app. Recommended', 'Protect your app with authentication. Recommended', and 'Add a deployment slot. Recommended'. A 'Go to resource' button is visible. At the bottom, there is a 'Give feedback' section with a link to 'Tell us about your experience with deployment'. On the right side of the portal, there are several service recommendations: 'Cost Management' (Get notified to stay within your budget and prevent unexpected charges on your bill. Set up cost alerts >), 'Microsoft Defender for Cloud' (Secure your apps and infrastructure. Go to Microsoft Defender for Cloud >), 'Free Microsoft tutorials' (Start learning today >), and 'Work with an expert' (Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support. Find an Azure expert >).

Task 2: Create a staging deployment slot

In this task, you will create a staging deployment slot.

The screenshot shows the Microsoft Azure portal interface for a deployment slot named 'staging (mordorce/staging)'. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment, Deployment slots, Deployment Center, Settings, Configuration, Authentication, Application Insights, Identity, Backups, Custom domains, Certificates, Networking, Scale up (App Service plan), Scale out (App Service plan), Webjobs, Push, and MySQL In App. The main content area is divided into several sections: Essentials (Resource group, Status, Location, Subscription, Subscription ID, Tags), Properties (Web app, Domains, Hosting), Deployment Center (Deployment logs, Last deployment, Deployment provider), Application Insights (Name, Enable Application Insights), and Networking (Virtual IP address, Outbound IP addresses, Additional Outbound IP addresses). The Web app section shows the name 'mordorce/staging', publishing model 'Code', and runtime stack 'Php - 8.0'. The Domains section shows the default domain 'mordorce-staging.azurewebsites.net'. The Hosting section shows the plan type 'App Service plan', name 'ASP-az10409arg1-a81b', operating system 'Linux', instance count '0', and SKU and size 'PremiumV3 (P1v3)'. The Deployment Center section shows deployment logs, last deployment, and deployment provider. The Application Insights section shows the name and a link to enable application insights. The Networking section shows the virtual IP address, outbound IP addresses, and additional outbound IP addresses.

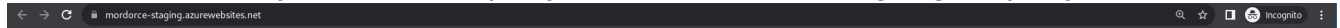
Task 3: Configure web app deployment settings

In this task, you will configure web app deployment settings.

The screenshot shows the Microsoft Azure portal interface for a deployment slot named 'staging (mordorce/staging)' in the 'Deployment Center' section. The left sidebar contains navigation options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Deployment, Deployment slots, Deployment Center, Settings, Configuration, Authentication, Application Insights, Identity, Backups, Custom domains, Certificates, Networking, Scale up (App Service plan), Scale out (App Service plan), Webjobs, Push, and MySQL In App. The main content area is divided into several sections: Settings (Local Git/FTP credentials), Logs, and Local Git/FTP credentials. The Local Git/FTP credentials section contains the following information: App Service supports multiple technologies to access, publish and modify the content of your app. FTPS credentials can be scoped to the application or the user. FTPS endpoint: https://waws-prod-am2-661.ftp.azurewebsites.windows.net/site/wwwroot. Git Clone Uri: https://mordorce-staging.scm.azurewebsites.net:443/mordorce.git. Application scope: Application scope credentials are auto-generated and provide access only to this specific app or deployment slot. These credentials can be used with FTPS, Local Git and WebDeploy. They cannot be configured manually, but can be reset anytime. Username: mordorce_staging\$mordorce_staging. Password: [Redacted]. User scope: User scope credentials are defined by you, the user, and can be used with all the apps to which you have access. These credentials can be used with FTPS, Local Git and WebDeploy. Authenticating to an FTPS endpoint using user-level credentials requires a username in the following format: 'mordorce-staging\your username'. Authenticating with Git requires only the username 'your username' defined below. Username: NeonHermit. Password: [Redacted]. Confirm Password: [Redacted].

Task 4: Deploy code to the staging deployment slot

In this task, you will deploy code to the staging deployment slot.



Hello World!

Task 5: Swap the staging slots

In this task, you will swap the staging slot with the production slot



Hello World!

Task 6: Configure and test autoscaling of the Azure web app
In this task, you will configure and test autoscaling of Azure web app.

