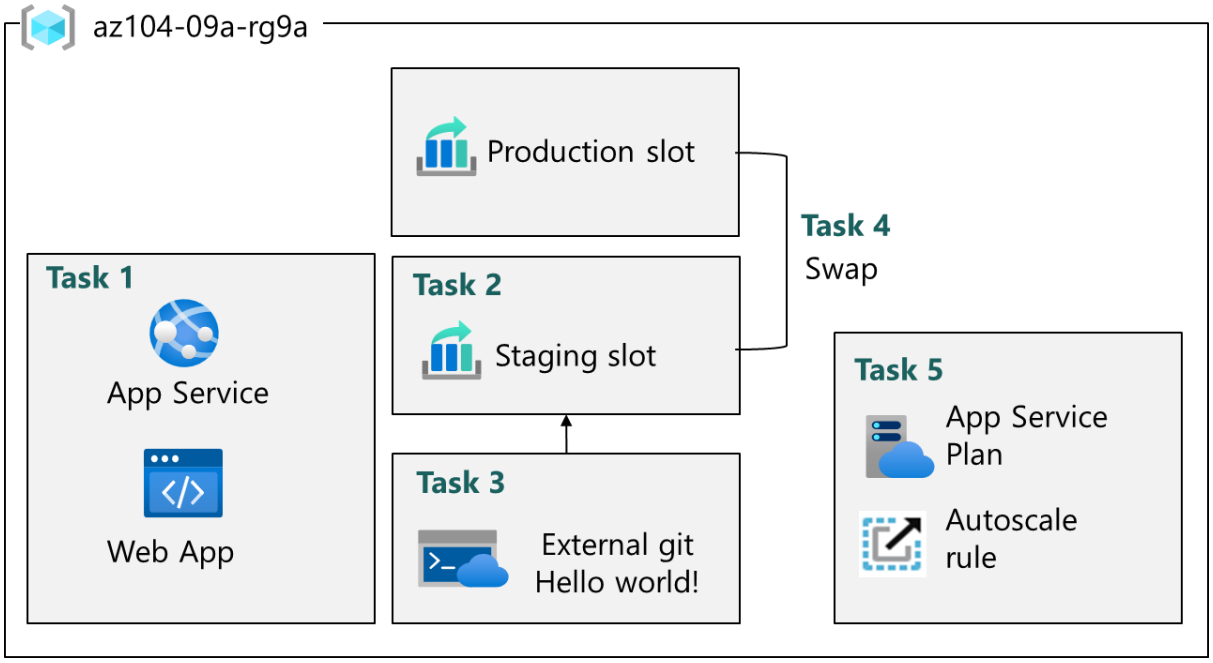
Implement Azure Web Apps



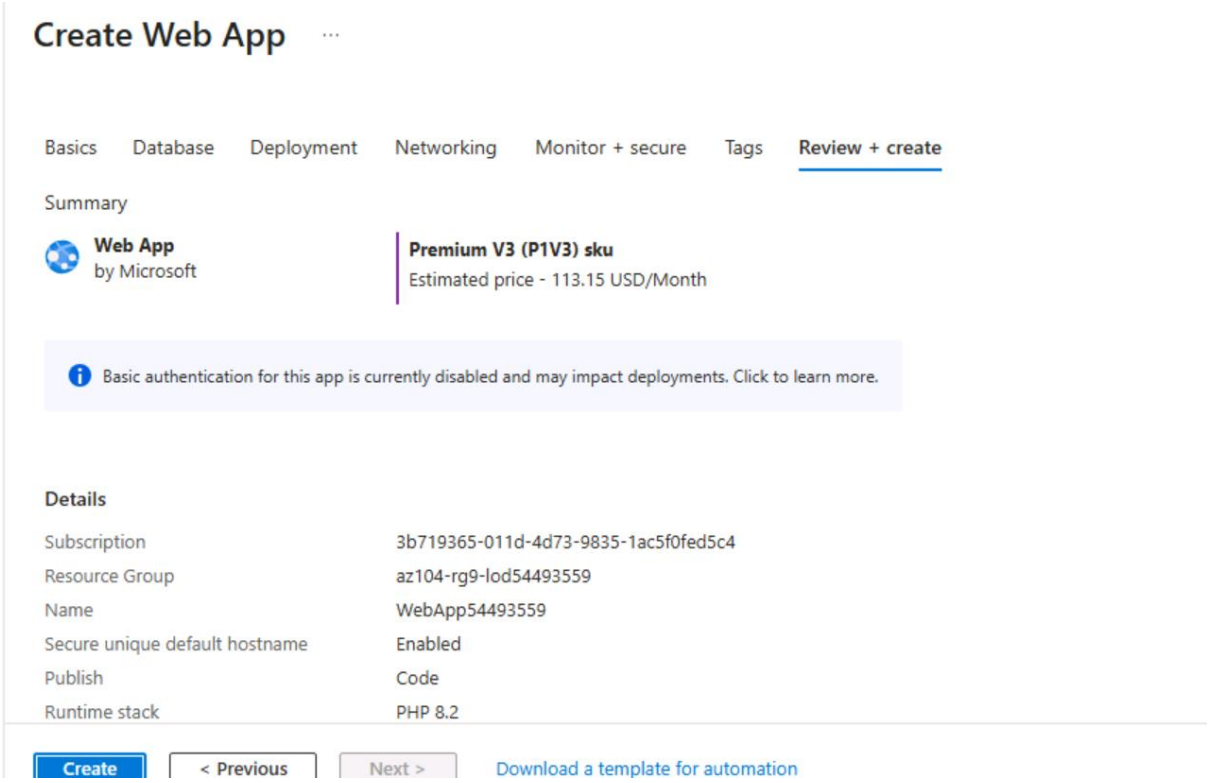
Task 1: Create and Configure Azure Web App

Objective: Deploy a PHP-based web app using Azure App Services.

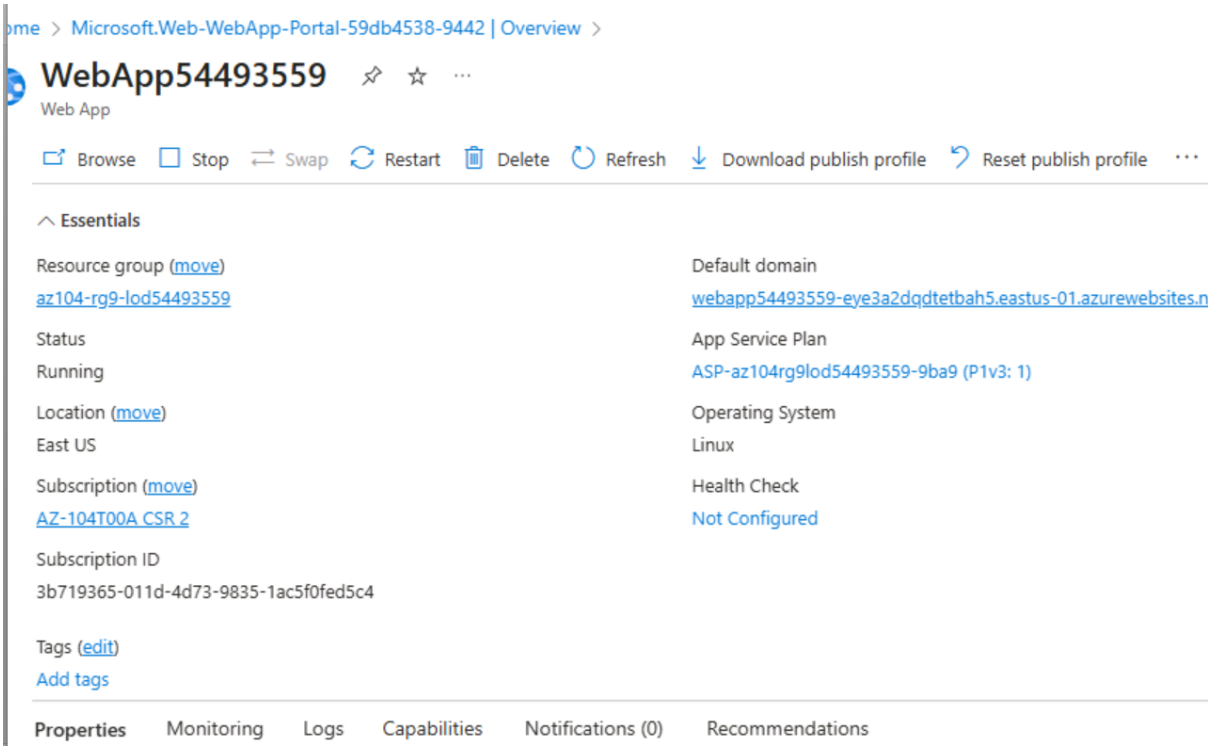
Steps:

1. Sign in to Azure Portal.
2. Search for **App Services** and select **+ Create > Web App**.
3. Fill in the following settings:
    - **Subscription:** Your Azure subscription
    - **Resource Group:** az104-rg9
    - **Web App Name:** Any globally unique name
    - **Publish:** Code
    - **Runtime Stack:** PHP 8.2
    - **Operating System:** Linux
    - **Region:** East US
    - **Pricing Plan:** Premium V3 P1V3
4. Click **Review + Create**, then **Create**.
5. After deployment, click **Go to resource**.

Screenshot Prompt:



Overview blade of webapp



Task 2: Create and Configure Deployment Slot

Objective: Set up a staging slot for pre-production testing.

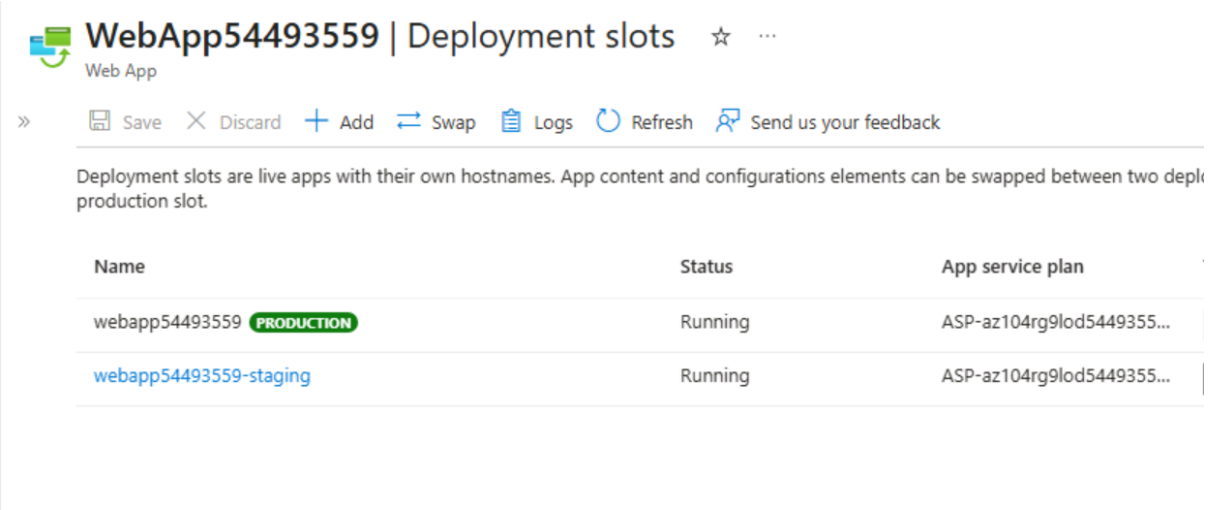
Steps:

1. On the Web App blade, click the **Default domain** link to view the default page.

2. Close the tab and go to **Deployment > Deployment slots**.
3. Click **Add Slot**:
    - **Name:** staging
    - **Clone Settings From:** Do not clone
4. Click **Add** and refresh to see both slots.
5. Click the **staging slot** to open its blade.

Screenshot Prompt:

📸 *Capture the Deployment Slots blade showing both Production and Staging.*



Task 3: Configure Web App Deployment Settings

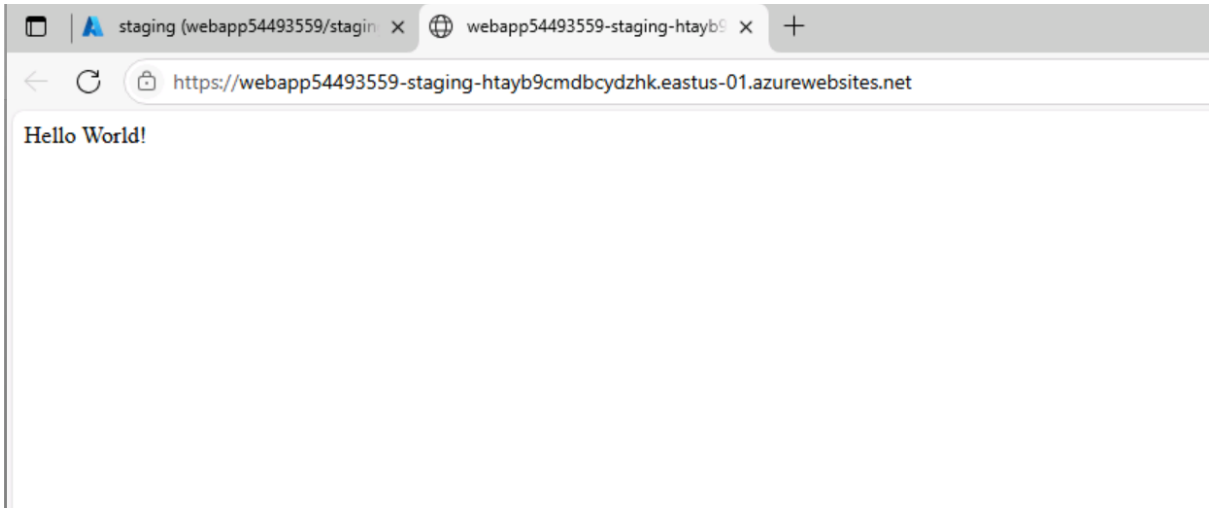
Objective: Connect staging slot to GitHub for continuous deployment.

Steps:

1. In the staging slot, go to **Deployment Center > Settings**.
2. Set:
    - **Source:** External Git
    - **Repository:** https://github.com/Azure-Samples/php-docs-hello-world
    - **Branch:** master
3. Click **Save**.
4. Go to **Overview > Default domain** and open the URL.

Screenshot Prompt:

📸 *Take a screenshot of the Hello World page in the browser.*



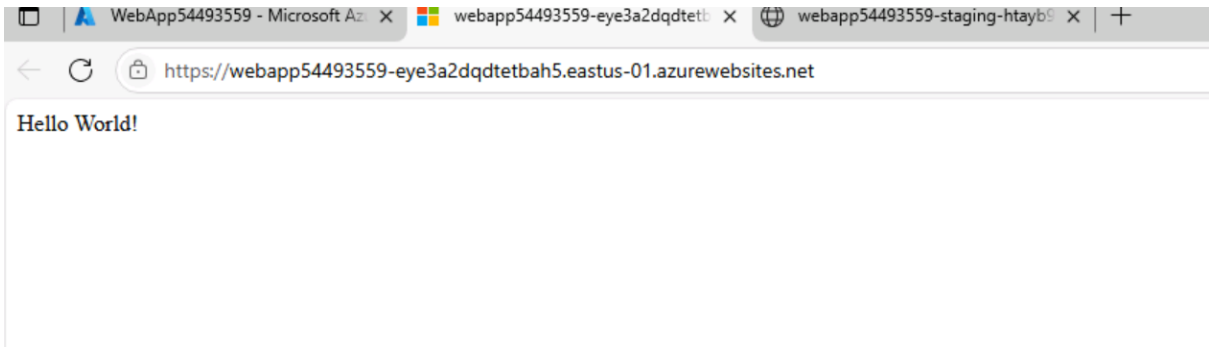
Task 4: Swap Deployment Slots

Objective: Move tested code from staging to production.

Steps:

1. Go to **Deployment slots** and click **Swap**.
2. Review settings and click **Start Swap**.
3. Return to the Web App Overview and open the **Default domain**.

Screenshot Prompt:
📸 *Capture the production slot showing the Hello World page.*



Task 5: Configure and Test Autoscaling

Objective: Enable autoscaling to handle traffic spikes.

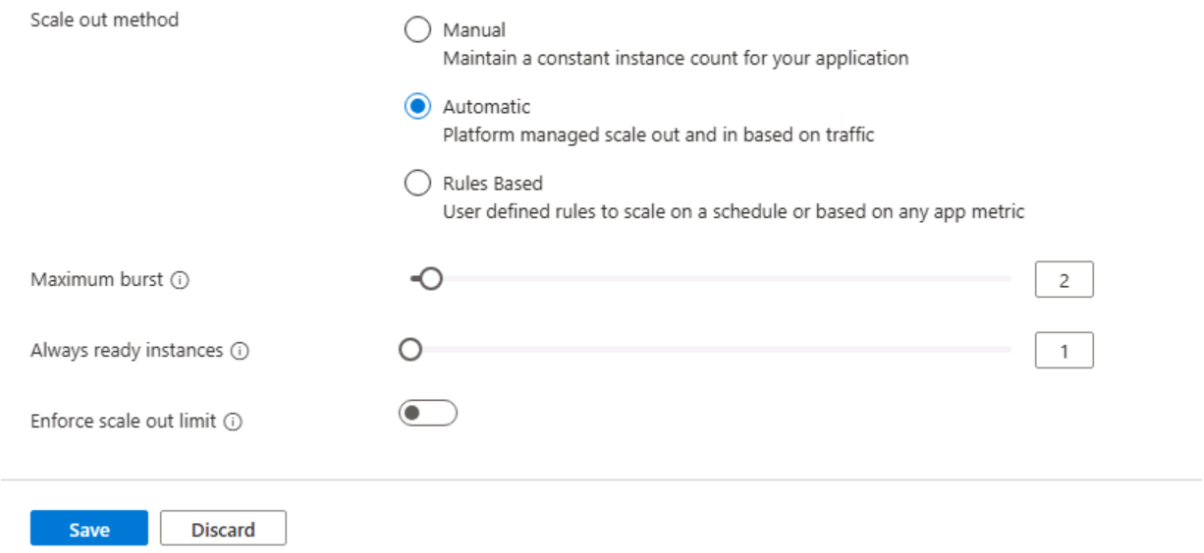
Steps:

1. In the production slot, go to **Settings > Scale out (App Service plan)**.
2. Set:
    - **Scaling Mode:** Automatic
    - **Maximum Burst:** 2
3. Click **Save**.

4. Go to **Diagnose and solve problems > Load Test your App > Create Load Test**.
5. Name the test, click **Review + Create**, then **Create**.
6. In the test plan:
    - Click **Add Request**
    - Paste your **Default domain URL**
    - Click **Add**, then **Create**
7. Monitor live metrics: Virtual users, Response time, Requests/sec.
8. Click **Stop** to end the test.

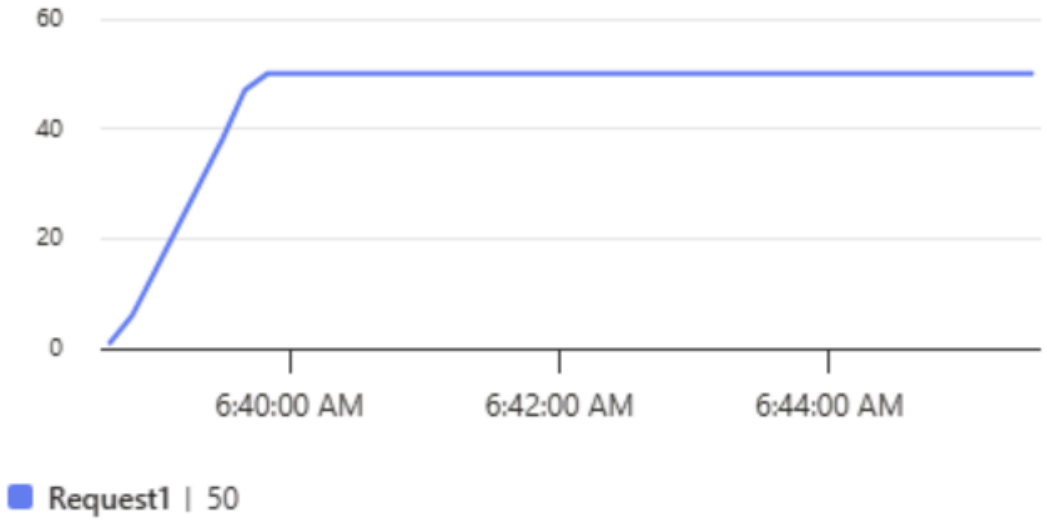
Screenshot Prompts:

📸 *Capture the autoscale settings page.*

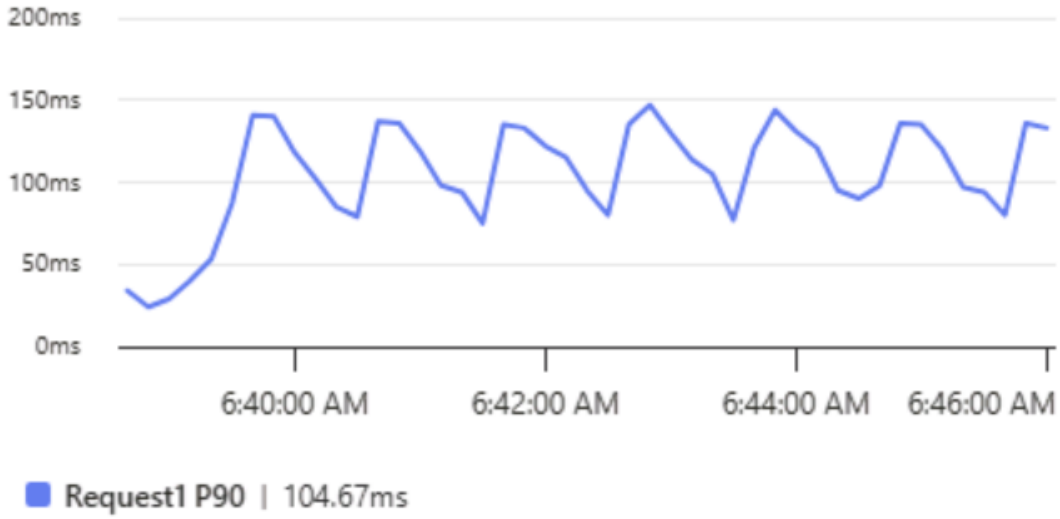


📸 *Capture the live metrics dashboard during load testing*

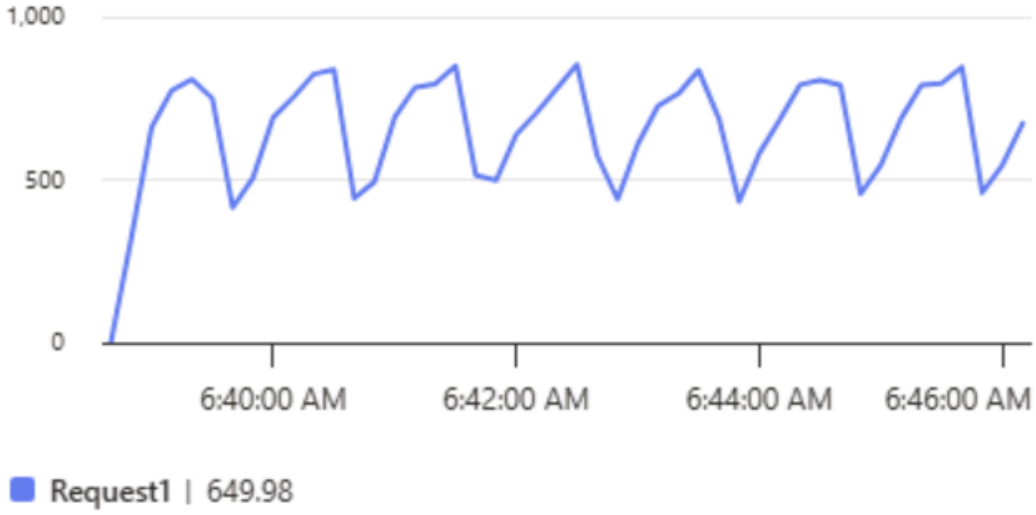
Virtual Users (Max)



Response time (successful responses)



Requests/sec (Avg)



Request1 | 649.98