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Section: A

LAB: 09-A

Task 1: Create and configure an Azure web app.

The screenshot shows the 'Create Web App' wizard in the Microsoft Azure portal. The 'Summary' step is selected. It shows a 'Web App' by Microsoft configured with a 'Premium V3 (P1V3) sku'. The estimated price is 119.72 USD/Month. A note indicates that basic authentication is currently disabled. The 'Details' section lists the following configuration:

| | |
|--------------------------------|--------------------------------------|
| Subscription | 2abc1374-49a7-48c3-b0a8-366511eba3ea |
| Resource Group | az104-rg9 |
| Name | fixkarapp |
| Secure unique default hostname | Enabled |
| Publish | Code |
| Runtime stack | PHP 8.2 |

At the bottom, there are 'Create', '< Previous', 'Next >', and 'Download a template for automation' buttons.

The screenshot shows the 'Overview' page for the 'fixkarapp' web app in the Microsoft Azure portal. The left sidebar shows navigation options like Activity log, Access control (IAM), Tags, and so on. The main area displays the 'Essentials' and 'Properties' sections. The 'Essentials' section includes details such as Resource group, Status, Location, Subscription, Default domain, App Service Plan, Operating System, and Health Check. The 'Properties' section shows the 'Web app' properties: Name (fixkarapp), Publishing model (Code), Runtime Stack (PHP - 8.2), and Runtime status (Issues Detected).

A screenshot of a Microsoft Azure deployment status page. The URL in the browser is https://fixkarapp-bvcre7d8a3gchgfj.centralindia-01.azurewebsites.net. The page title is "Microsoft Azure". The main message is "Your web app is running and waiting for your content". Below this, a note says: "Your web app is live, but we don't have your content yet. If you've already deployed, it could take up to 5 minutes for your content to show up, so come back soon." To the right is an illustration of a computer monitor displaying a globe icon, with code snippets like '</>' and '{ }' floating around it. At the bottom left is a "Built with PHP" badge. At the bottom center are links for "Haven't deployed yet?" and "Starting a new web site?".

Task 2: Create and configure a deployment slot.

The screenshot shows the Microsoft Azure portal interface for a Web App named "fixkarapp". The left sidebar navigation bar is visible, with "Deployment slots" highlighted under the "Deployment" section. The main content area displays the "fixkarapp | Deployment slots" page, which includes a search bar, navigation buttons (Save, Discard, Add, Swap, Logs, Refresh), and a "Send feedback" button. A "No slots" message indicates there are currently no deployment slots. The "Add Slot" dialog box is open, prompting for a slot name ("staging") and clone settings ("Do not clone settings"). The top navigation bar shows the user's email (bsse228013@szabist.pk) and the default directory (BSSE228013).

The screenshot shows the Microsoft Azure Web App portal for the application 'fixkarapp'. The left sidebar includes links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), Log stream, Resource visualizer, Deployment, and Deployment slots. The main content area displays two deployment slots: 'fixkarapp' (Status: Running, Service Plan: ASP-az104rg9-b42c, Traffic %: 100) and 'fixkarapp-staging' (Status: Running, Service Plan: ASP-az104rg9-b42c, Traffic %: 0). A top navigation bar features a search bar, Copilot, and user information.

fixkarapp | Deployment slots

Web App

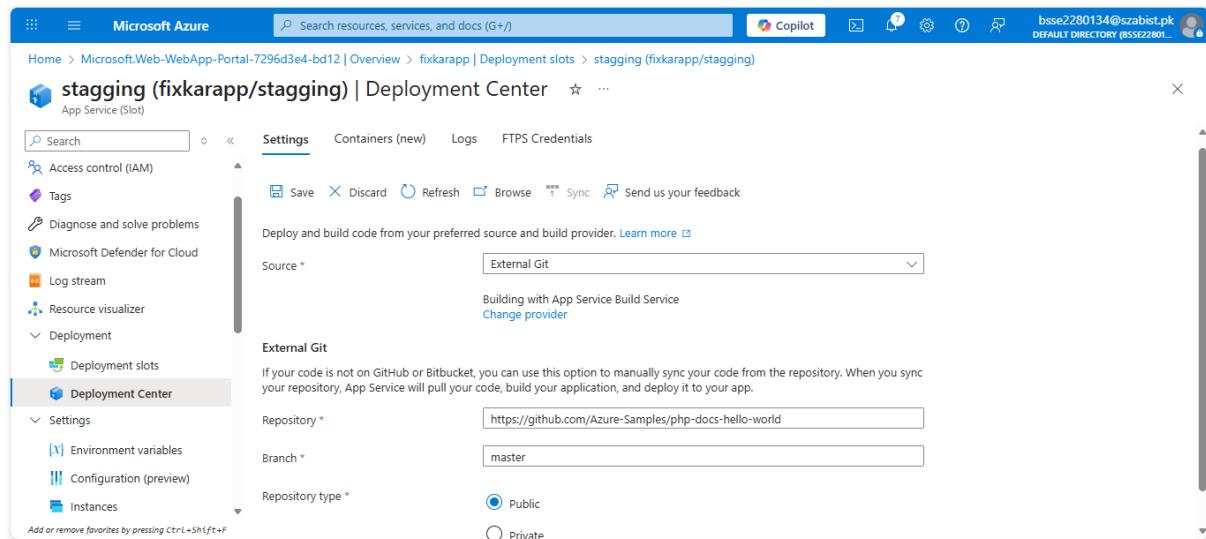
Search

Save Discard Add Swap Logs Refresh Send us your feedback

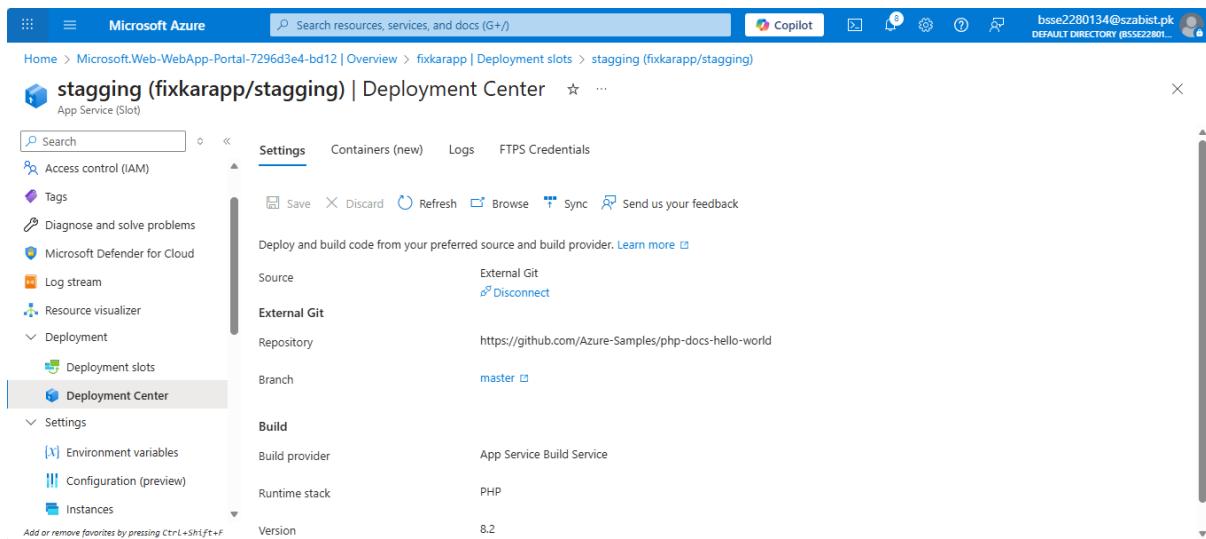
Deployment slots are live apps with their own hostnames. App content and configurations elements can be swapped between two deployment slots, including the production slot.

| Name | Status | App service plan | Traffic % |
|-----------------------------------|---------|-------------------|-----------|
| fixkarapp PRODUCTION | Running | ASP-az104rg9-b42c | 100 |
| fixkarapp-staging | Running | ASP-az104rg9-b42c | 0 |

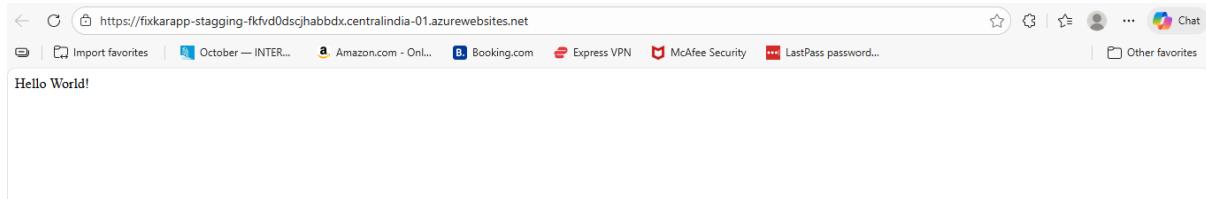
Task 3: Configure Web App deployment settings



The screenshot shows the Microsoft Azure Deployment Center interface for the 'staging' slot of the 'fixkarapp' web app. The 'Settings' tab is selected. Under 'Source', 'External Git' is chosen. The 'Repository' field contains 'https://github.com/Azure-Samples/php-docs-hello-world' and the 'Branch' field contains 'master'. A note indicates that if the code is not on GitHub or Bitbucket, manual sync can be used. The 'Repository type' is set to 'Public'.



The screenshot shows the same Deployment Center interface, but the 'Repository type' has been changed to 'Private'. The 'Disconnect' button is visible next to the repository details. Other build configurations like 'Build provider' (App Service Build Service), 'Runtime stack' (PHP), and 'Version' (8.2) are also listed.



The screenshot shows a web browser window displaying the deployed application at the URL 'https://fixkarapp-staging-fkfvd0dscjhabbdx.centralindia-01.azurewebsites.net'. The page content is 'Hello World!'

Task 4: Swap deployment slots

The screenshot shows the Microsoft Azure portal interface for the 'fixkarapp' web app. In the top navigation bar, the user is at 'App Services > fixkarapp'. The main content area displays the 'Deployment slots' section. It lists two slots: 'fixkarapp' (Status: Running, App service plan: ASP-az104rg9-b42c) and 'fixkarapp-staging' (Status: Running, App service plan: ASP-az104rg9-b42c). A 'Swap' button is visible in the toolbar above the table. To the right, a 'Notifications' sidebar shows a recent event: 'Successfully swapped slots 'staging' and 'production''. Below the table, a browser window shows the application's output: 'Hello World!'. The browser address bar shows the URL: <https://fixkarapp-bvcre7d8a3gchgfj.centralindia-01.azurewebsites.net>.

Task 5: Configure and test autoscaling of the Azure Web App

Note: Auto scaling isn't possible in student subscription, so did it with manual testing instead

The screenshot shows the 'Create a load testing resource' wizard. The 'Review + create' step is active, indicated by the blue border around its tab. A green validation message 'Validation passed.' is displayed. The 'Basics' section contains the following details: Subscription: Azure for Students, Resource group: az104-rg9, Name: loadtestappzainab, Region: Central India. The 'Encryption' section shows 'Encryption type: MMK'. At the bottom, there are 'Previous' and 'Next' buttons, and a prominent blue 'Create' button.

The screenshot shows the 'loadtestappzainab' Azure Load Testing resource overview page. The left sidebar includes options like Overview, Activity log, Access control (IAM), Tags, Resource visualizer, Tests, Settings, Monitoring, Automation, and Help. The main content area displays the 'Essentials' section with details: Resource group: az104-rg9, Status: ---, Location: Central India. It also features a 'Load test your application and infrastructure' section with three cards: 'Create by adding HTTP requests', 'Run existing scripts at scale', and 'Create scripts using Copilot'. The browser address bar shows the URL: <https://portal.azure.com/#>

Microsoft Azure Copilot bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...)

[Home](#) > Microsoft.CloudNativeTesting1766472751699 | Overview > [loadtest](#) **Add request**

Create a URL-based test ...

[Basics](#) [Test plan](#) [Parameters](#) [Load](#) [Monitoring](#) [Test criteria](#)

Requests
Enter the request details that you want to test. You can add up to 5 requests in a test.

+ Add request

Name

Add requests to the test.

Input data files
Upload the input data files in CSV format with ',' as the delimiter. The file should not have header row. Provide comma-separated variable names below instead of using a header row. You can use the variable name in your request as \${ColumnName}.

Choose files Select a file

[Previous](#) [Next](#) [Review + create](#) [Add](#) [Cancel](#)

<https://portal.azure.com/#>

Microsoft Azure Copilot bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...)

[Home](#) > Microsoft.CloudNativeTesting1766472751699 | Overview > [loadtestappzainab](#) >

Create a URL-based test ...

[Basics](#) [Test plan](#) [Parameters](#) [Load](#) [Monitoring](#) [Test criteria](#) [Review + create](#)

Requests
Enter the request details that you want to test. You can add up to 5 requests in a test. [Learn more](#)

+ Add request

Name [...](#)

Input data files
Upload the input data files in CSV format with ',' as the delimiter. The file should not have header row. Provide comma-separated variable names below instead of using a header row. You can use the variable name in your request as \${ColumnName}.

Choose files Select a file [Upload](#)

[Previous](#) [Next](#) [Review + create](#)

<https://portal.azure.com/#>

Microsoft Azure Copilot bsse2280134@szabist.pk
DEFAULT DIRECTORY (BSSE22801...)

[Home](#) > [loadtestappzainab](#)

loadtestappzainab | Tests [...](#)

[Overview](#) [Activity log](#) [Access control \(IAM\)](#) [Tags](#) [Resource visualizer](#) [Tests](#)

[Create](#) [Set up CI/CD](#) [Refresh](#) [Give feedback](#)

Time range : None

| Name | Description | Test type | Updated on | Updated by | ... |
|-----------------------------|-------------|-----------|-------------------------|------------------------|---------------------|
| Test_12/23/2025_12:06:43 PM | | URL | 23/12/2025, 12:08:43 pm | bsse2280134@szabist.pk | ... |

