

Introduction to Cloud Computing

LAB 09a

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ID: 2280155

BS-SE 7B

Task 1: Create and configure an Azure web app

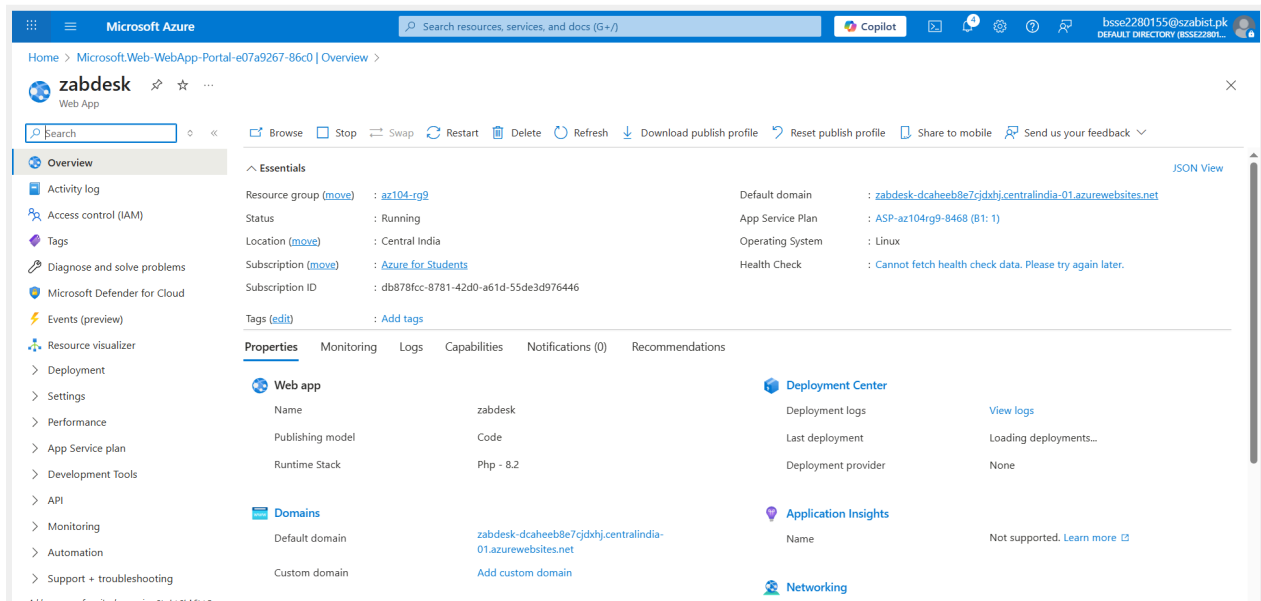
- Search for and select **App Services**. Select **Create**, from drop-down menu, **Web App**.

The screenshot shows the 'Create Web App' wizard in the Microsoft Azure portal. The 'Basics' tab is selected. The 'Project Details' section shows the 'Subscription' as 'Azure for Students' and the 'Resource Group' as '(New) az104-rg9'. The 'Instance Details' section shows the 'Name' as 'zabdesk' and the 'Secure unique default hostname' checkbox is checked. The 'Review + create' button is visible at the bottom.

The screenshot shows the 'Overview' page for the 'Microsoft.Web-WebApp-Portal-e07a9267-86c0' deployment. The 'Deployment is in progress' status is shown. The 'Deployment details' section shows the 'Resource' as 'ASP-az104rg9-8468', the 'Type' as 'Microsoft.Web/serverfarms', and the 'Status' as 'OK'. A 'Deployment succeeded' notification is visible in the top right corner.

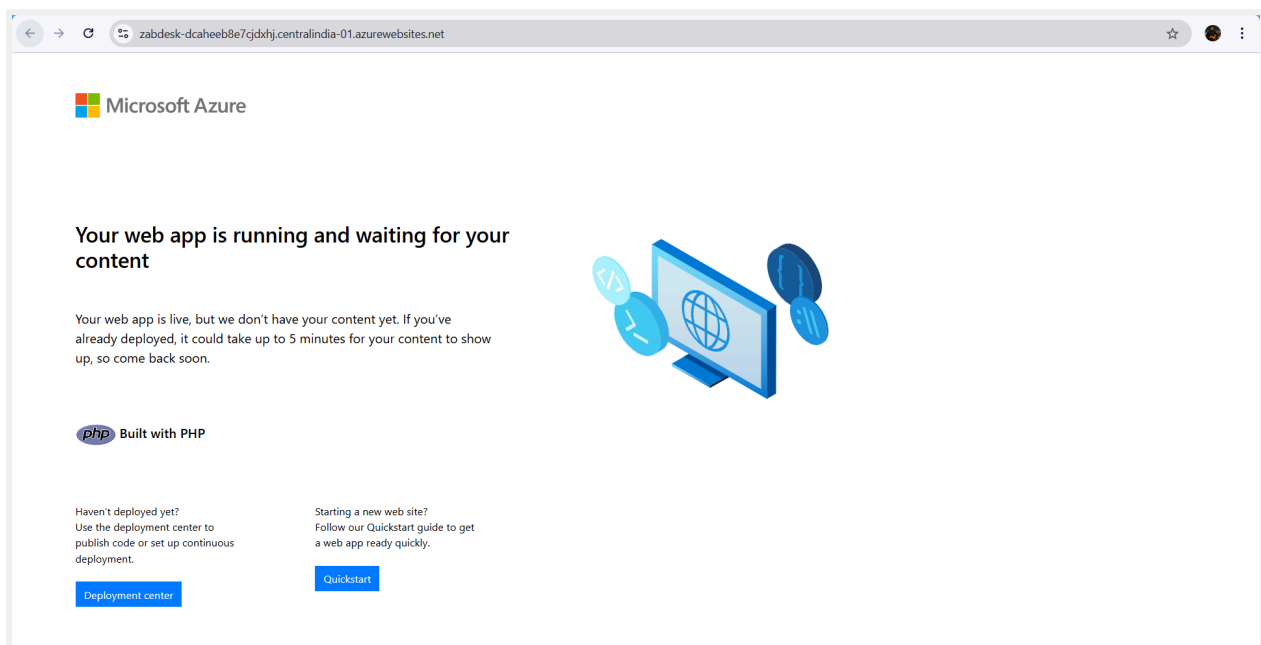
Resource	Type	Status	Operation details
ASP-az104rg9-8468	Microsoft.Web/serverfarms	OK	Operation details

- After the deployment, select **Go to resource**.



Task 2: Create and configure a deployment slot

- On the blade of the newly deployed Web App, click the **Default domain** link to display the default web page in a new browser tab.



- In the **Deployment** section of the Web App blade, click **Deployment slots**. Click **Add slot**.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'Deployment slots' option under the 'Deployment' section. The main area displays the 'zabdesk | Deployment slots' page. A message states: 'No slots have been created. 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.' An 'Add slot' button is visible. An 'Add Slot' dialog box is open on the right, with the 'Name' field containing 'staging' and the 'Clone settings from' dropdown set to 'Do not clone settings'. The 'Add' button is highlighted.

- Refresh the page to view the Production and Staging slots.

The screenshot shows the Microsoft Azure portal interface. The main area displays the 'zabdesk | Deployment slots' page. A message states: '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.' Below the message is a table with the following data:

Name	Status	App service plan	Traffic %
zabdesk PRODUCTION	Running	ASP-az104rg9-8468	100
zabdesk-staging	Running	ASP-az104rg9-8468	0

- Select the entry representing the newly created staging slot.

Microsoft Azure

Search resources, services, and docs (G+)

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Home > Microsoft.Web-WebApp-Portal-e07a9267-86c0 | Overview > zabdesk | Deployment slots >

staging (zabdesk/staging) App Service (Slot)

Search

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Resource visualizer

Deployment

Settings

Performance

App Service plan

Development Tools

API

Monitoring

Automation

Support + troubleshooting

Essentials

Resource group (move) : az104-rg9

Status : Running

Location (move) : Central India

Subscription (move) : Azure for Students

Subscription ID : db878fcc-8781-42d0-a61d-55de3d976446

Tags (edit) : Add tags

Default domain : zabdesk-staging-gkedcegfddcdxbngs.centralindia-01.azurewebsite...

App Service Plan : ASP-az104rg9-8468 (S1: 1)

Operating System : Linux

Health Check : Cannot fetch health check data. Please try again later.

Properties

Monitoring

Logs

Capabilities

Notifications (0)

Recommendations

Web app

Name : zabdesk/staging

Publishing model : Code

Runtime Stack : Php - 8.2

Domains

Default domain : zabdesk-staging-gkedcegfddcdxbngs.centralindia-01.azurewebsites.net

Custom domain : Add custom domain

Deployment Center

Deployment logs

Last deployment

Deployment provider

View logs

Loading deployments...

None

Application Insights

Name

Not supported. Learn more

Networking

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Task 3: Configure Web App deployment settings

- In the staging slot, select **Deployment Center** and then select **Settings**.
- In the **Source** drop-down list, select **External Git**.

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Home > Microsoft.Web-WebApp-Portal-e07a9267-86c0 | Overview > zabdesk | Deployment slots > staging (zabdesk/staging)

staging (zabdesk/staging) | Deployment Center App Service (Slot)

Search

Settings

Containers (new)

Logs

FTPS Credentials

Save

Discard

Refresh

Browse

Sync

Send us your feedback

Deploy and build code from your preferred source and build provider. Learn more

Source *

External Git

Building with App Service Build Service

Change provider

External Git

If your code is not on GitHub or Bitbucket, you can use this option to manually sync your code from the repository. When you sync your repository, App Service will pull your code, build your application, and deploy it to your app.

Repository *

https://github.com/Azure-Samples/php-docs-hello-world

Branch *

master

Repository type *

Public

Private

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Resource visualizer

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Settings

Performance

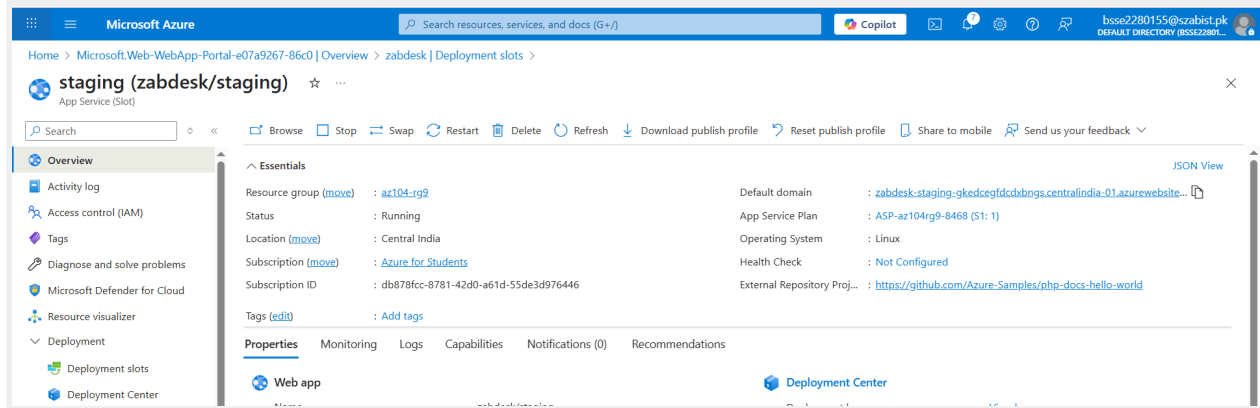
App Service plan

Development Tools

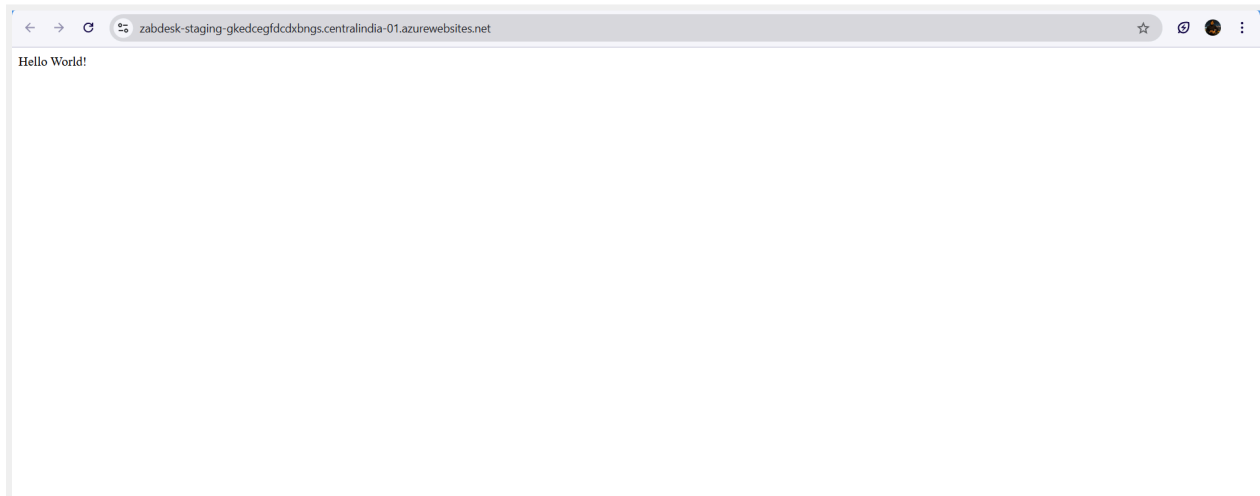
API

Monitoring

Automation

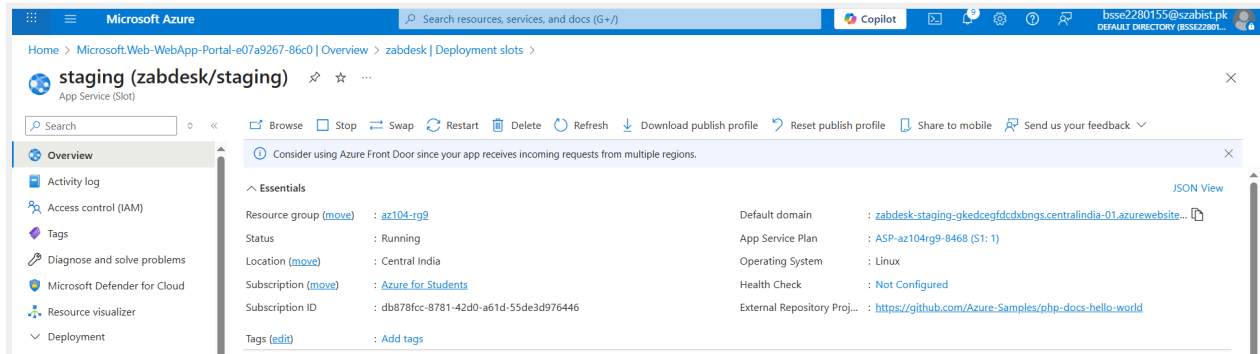


- Verify that the staging slot displays **Hello World**.



Task 4: Swap deployment slots

- Navigate back to the **Deployment slots** blade, and then select **Swap**.



- Review the default settings and click **Start Swap**.

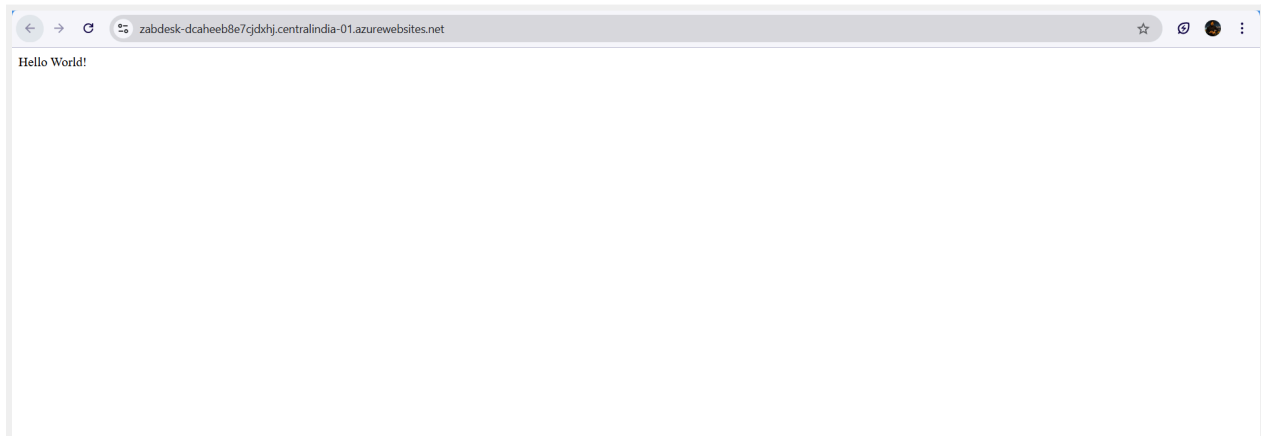
The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'staging (zabdesk/staging)' App Service slot. The main area displays the 'Overview' blade for this slot, showing details like Resource group (az104-rg9), Status (Running), Location (Central India), and Subscription ID. On the right, the 'Swap' blade is open, showing the 'Source' slot as 'zabdesk-staging' and the 'Target' slot as 'zabdesk' (marked as PRODUCTION). The 'Swap with preview' checkbox is unchecked. Below this, the 'Config Changes' section shows a summary of configuration changes between the source and target slots. At the bottom of the swap configuration, the 'Start Swap' button is highlighted.

- Return to the portal home page. Search for **App Services** and select your App Service web app.

The screenshot shows the Microsoft Azure portal interface. On the left, the navigation pane is open, showing the 'zabdesk' App Service. The main area displays the 'Overview' blade for this App Service, showing details like Resource group (az104-rg9), Status (Running), Location (Central India), and Subscription ID. On the right, the 'Essentials' section is visible, showing the 'Default domain' link, which is 'zabdesk-dcraeeb8e7cjdjh.centralindia-01.azurewebsites.net'. Below this, the 'App Service Plan' details are shown, including the plan name 'ASP-az104rg9-8468 (S1: 1)' and the operating system 'Linux'. At the bottom of the 'Essentials' section, the 'Health Check' status is 'Not Configured'. The 'Default domain' link is highlighted, indicating it is the selected option to display the website home page.

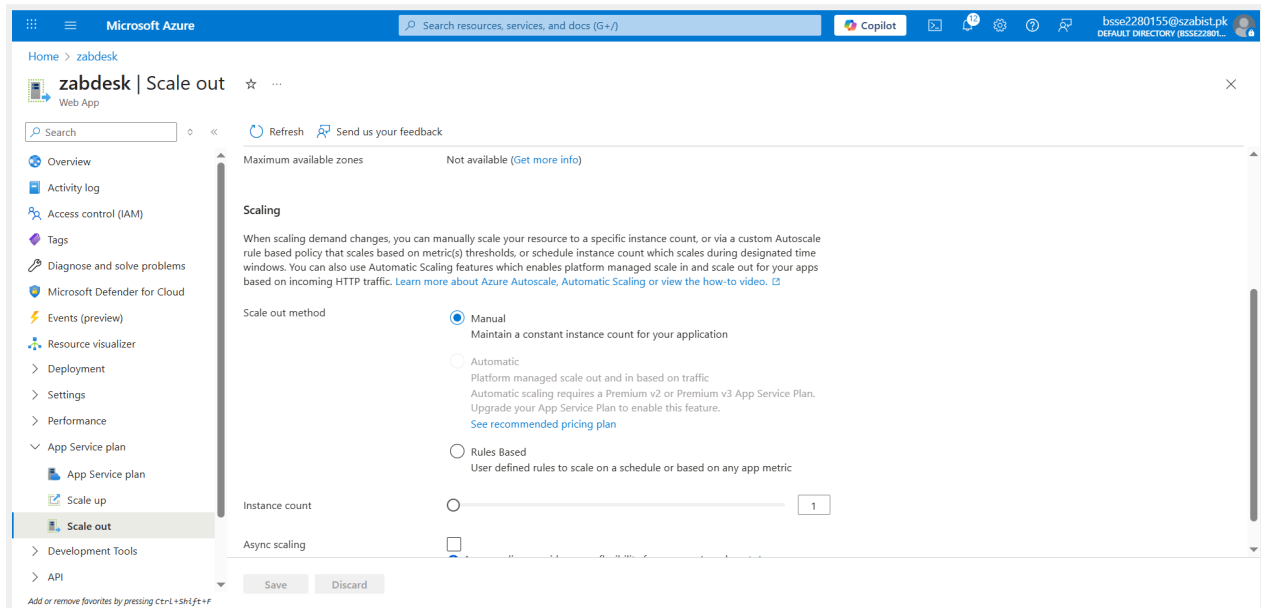
- On the **Overview** blade of the Web App select the **Default domain** link to display the website home page.

- Verify the production web page now displays the **Hello World!** page.



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

- The Automatic Scale out method is disabled due to **Azure Student Subscription**.



Microsoft Azure

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DEFAULT DIRECTORY (BSSE22801...

Home > zabdesk

zabdesk | Diagnose and solve problems

Web App

Search

Search for common problems or tools

Refresh

Feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Resource visualizer

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Settings

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Development Tools

API

Monitoring

Automation

Support + troubleshooting

Common Solutions

AI-powered Diagnostics (preview)

Risk alerts

Availability

1 Critical 1 Warning

View more details

Troubleshooting categories

Availability and Performance

Check your app's health and discover app or platform issues.

Application Logs

App Down Workflow

Web App Down

Configuration and Management

Find out if your app service features are misconfigured.

Investigate EasyAuth errors

IP Address Configuration

All Scaling Operations

Risk Assessments

Analyze your app for optimal performance and configurations.

Availability risks

Configuration risks

Deployment

Discover and resolve issues with your application code deployments

Networking

Discover and resolve any networking related issues with your resources

Diagnostic Tools

Run proactive tools to automatically mitigate the app.

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