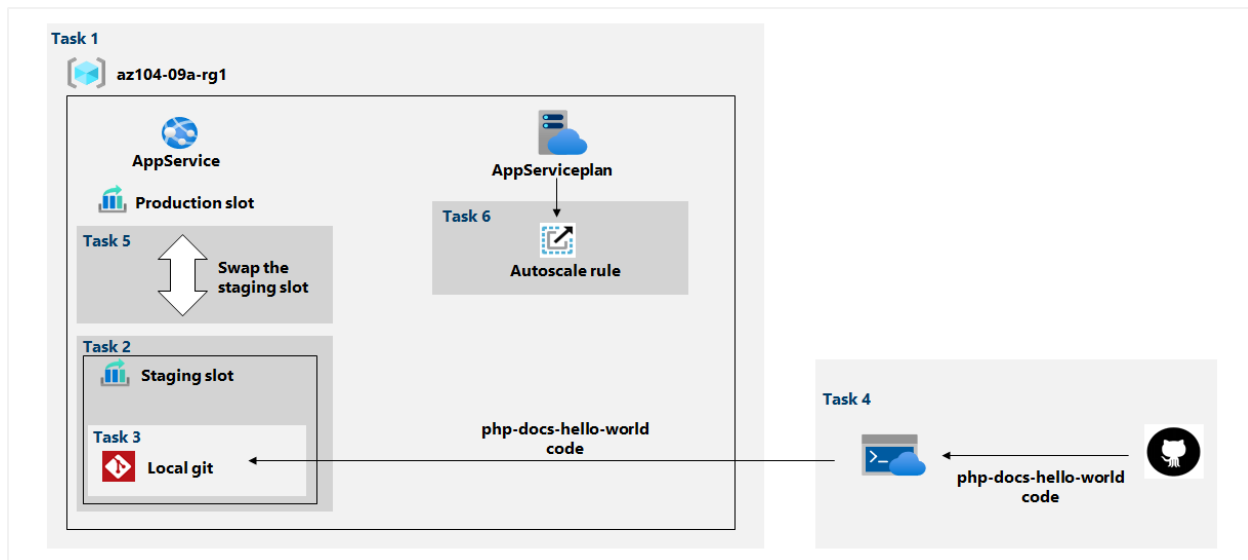


## Lab 09a - Implement Web Apps

In this lab, we are tasked with evaluating the use of Azure Web apps for hosting Contoso's web sites, which are currently being hosted in the company's on-premises data centers. The web sites are running on Windows servers using the PHP runtime stack. Additionally, we need to determine how to implement DevOps practices by leveraging Azure web apps deployment slots.

### Architecture diagram



**Task 1:** In this task, I will create an Azure web app using the Azure portal.

The screenshot shows the Microsoft Azure portal interface. At the top, the header includes the Microsoft Azure logo, a search bar, and the user's profile. The main content area displays the deployment details for a web app named 'Microsoft.Web-WebApp-Portal-89f6e858-bac2'. A green checkmark indicates that the deployment is complete. The deployment details include the name, subscription, resource group, start time, and correlation ID. Below this, there are sections for 'Deployment details' and 'Next steps', each with a 'Go to resource' button. A 'Cost Management' section is also visible, providing information about budget and charges. A 'Microsoft Defender for Cloud' section is also present, offering security recommendations. A notification banner at the top right states 'Deployment succeeded' and provides a link to 'Go to resource'.

**Task 2: In this task, I will create a staging deployment slot for the Azure web app created in Task 1.**

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, a search bar, and user information for vladimirvelkovski@live.c... (DEFAULT DIRECTORY). The breadcrumb trail indicates the path: Home > Microsoft.Web-WebApp-Portal-89f6e858-bac2 | Overview > Scalefocus. The main heading is "Scalefocus | Deployment slots" with a star icon and a close button. Below the heading is a search bar and a toolbar with icons for Save, Discard, Add Slot, Swap, Logs, and Refresh. A left sidebar contains navigation links: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events (preview), and Deployment. The main content area is titled "Deployment Slots" and includes a description: "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 this is a table with the following data:

NAME	STATUS	APP SERVICE PLAN	TRAFFIC %
scalefocus	PRODUCTION Running	ASP-az10409arg1-9e08	100
scalefocus-staging	Running	ASP-az10409arg1-9e08	0

**Task 3: In this task, I will configure web app deployment settings**

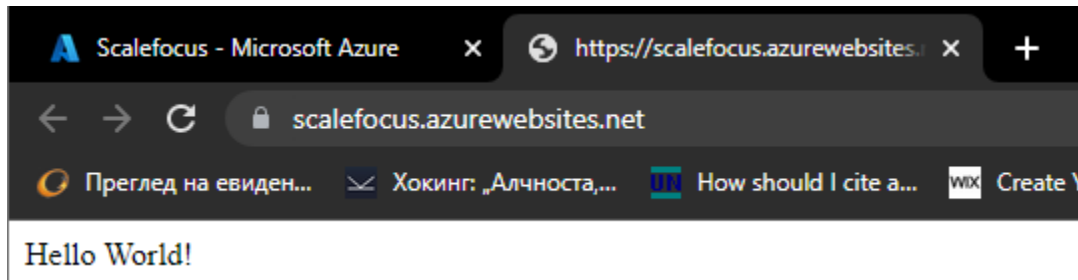
The screenshot shows the Microsoft Azure portal interface for the staging deployment slot. The top navigation bar is the same as in Task 2. The breadcrumb trail is: Home > Microsoft.Web-WebApp-Portal-89f6e858-bac2 | Overview > Scalefocus | Deployment. The main heading is "staging (scalefocus/staging) | Deployment Center" with a subheading "App Service (Slot)". Below the heading is a search bar and a toolbar with icons for Save, Discard, Browse, Manage publish profile, Sync, and a menu icon. A left sidebar contains navigation links: Overview and Activity log. The main content area has tabs for Settings, Logs, and Local Git/FTPS credentials. A notification banner at the top right states: "Updating publishing user credentials" with a green checkmark and "Successfully updated publishing user credentials".

**Task 4: In this task, I will deploy code to the staging deployment slot**

The screenshot shows a web browser window with the address bar displaying "https://scalefocus-staging.azurewebsites.net". The browser tabs include "staging (scalefocus/staging) - Mik" and "https://scalefocus-staging.azurewebsites.net". The browser's address bar also shows "scalefocus-staging.azurewebsites.net". The browser's address bar also shows "scalefocus-staging.azurewebsites.net".

Hello World!

**Task 5:** In this task, I will swap the staging and production deployment slots to make the new changes live on the website.



**Task 6:** In this task, I will configure and test autoscaling of the Azure web app to improve its performance and handle traffic spikes.

