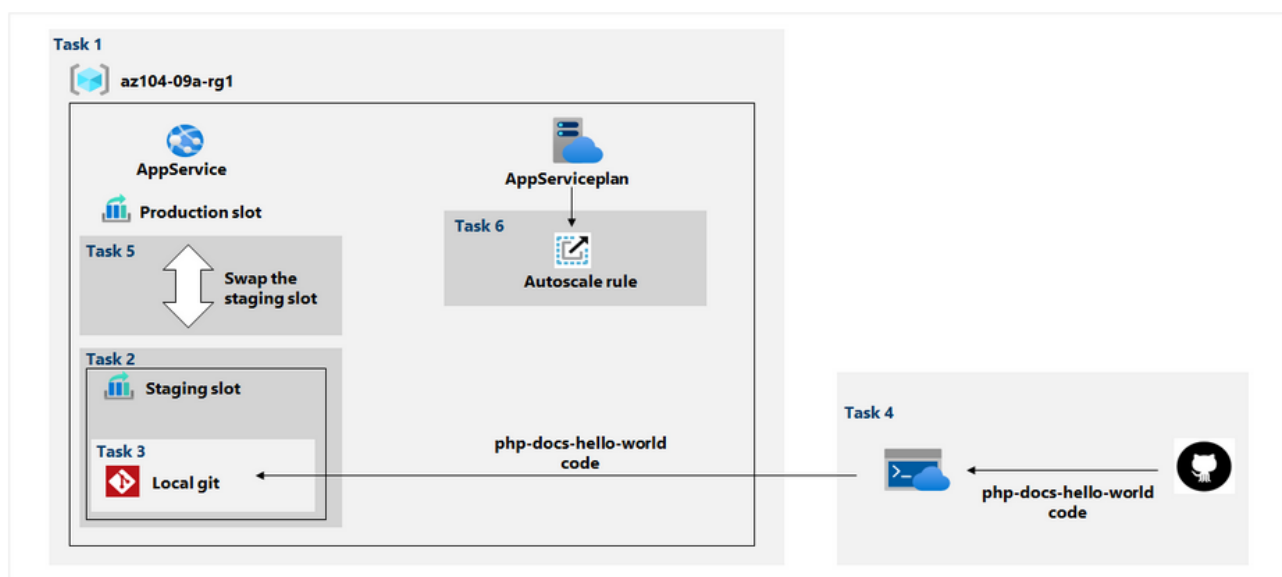


Implement Web Apps

- 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

Architecture diagram



Task 1: Create an Azure web app

Create new VM in App Service

The screenshot shows the Microsoft Azure portal interface. At the top, there's a navigation bar with the Microsoft Azure logo and a search bar. Below the navigation bar, the main content area displays the title "Microsoft.Web-WebApp-Portal-e0da3961-b9c5 | Overview". On the left side, there's a sidebar menu with options: Overview (selected), Inputs, Outputs, and Template. The main content area shows a green checkmark icon and the text "Your deployment is complete". Below this, there's a section for "Deployment details" and "Next steps". The "Deployment details" section includes information about the deployment name, subscription, resource group, start time, and correlation ID. The "Next steps" section lists recommended actions: "Manage deployments for your app", "Protect your app with authentication", and "Add a deployment slot". On the right side, there's a sidebar with additional resources: "Cost Management", "Microsoft Defender for Cloud", "Free Microsoft tutorials", and "Work with an expert".

Home > Microsoft.Web-WebApp-Portal-e0da3961-b9c5 | Overview

Deployment

Search

Delete Cancel Redeploy Download Refresh

Overview

Inputs

Outputs

Template

✓ Your deployment is complete

Deployment name: Mic... Start time: 3/27/202...
Subscription: Azure Pas... Correlation ID: fa3e211
Resource group: az104...

Deployment details

Next steps

Manage deployments for your app. Recommended

Protect your app with authentication. Recommended

Add a deployment slot. Recommended

[Go to resource](#)

Give feedback

Tell us about your experience with deployment

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 >](#)

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

Open the VM that we have deployed and from left side menu click **Deployment slots**

mkOglasnik.mk | Категории

sfa-homework/DevOps Lab 18

mkov1 - Microsoft Azure

portal.azure.com/#@darkoavramovski1hotmail.on...

Microsoft Azure

Search resources, services, and docs (G+)

Home > App Services >

mkov1

Web App

Search

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)

Service Connector

Locks

App Service plan

Browse

Stop

Swap

Restart

Delete

Refresh

Essentials

Resource group (move)

az104-05-rg1

Status

Running

Location (move)

East US

Subscription (move)

Azure Pass - Sponsorship

Subscription ID

df86697d-88bc-4474-899b-64b5dfd1d8cf

Tags (edit)

Click here to add tags

Default domain

mkov1.azurewebsites.net

App Service Plan

ASP-az10405rg1-9225 (P1v3: 1)

Operating System

Linux

Health Check

Not Configured

JSON View

Properties

Monitoring

Logs

Capabilities

Notifications

Recommendations

Web app

Name

mkov1

Publishing model

Code

Runtime Stack

Php - 8.0

Domains

Default domain

mkov1.azurewebsites.net

Custom domain

Add custom domain

Hosting

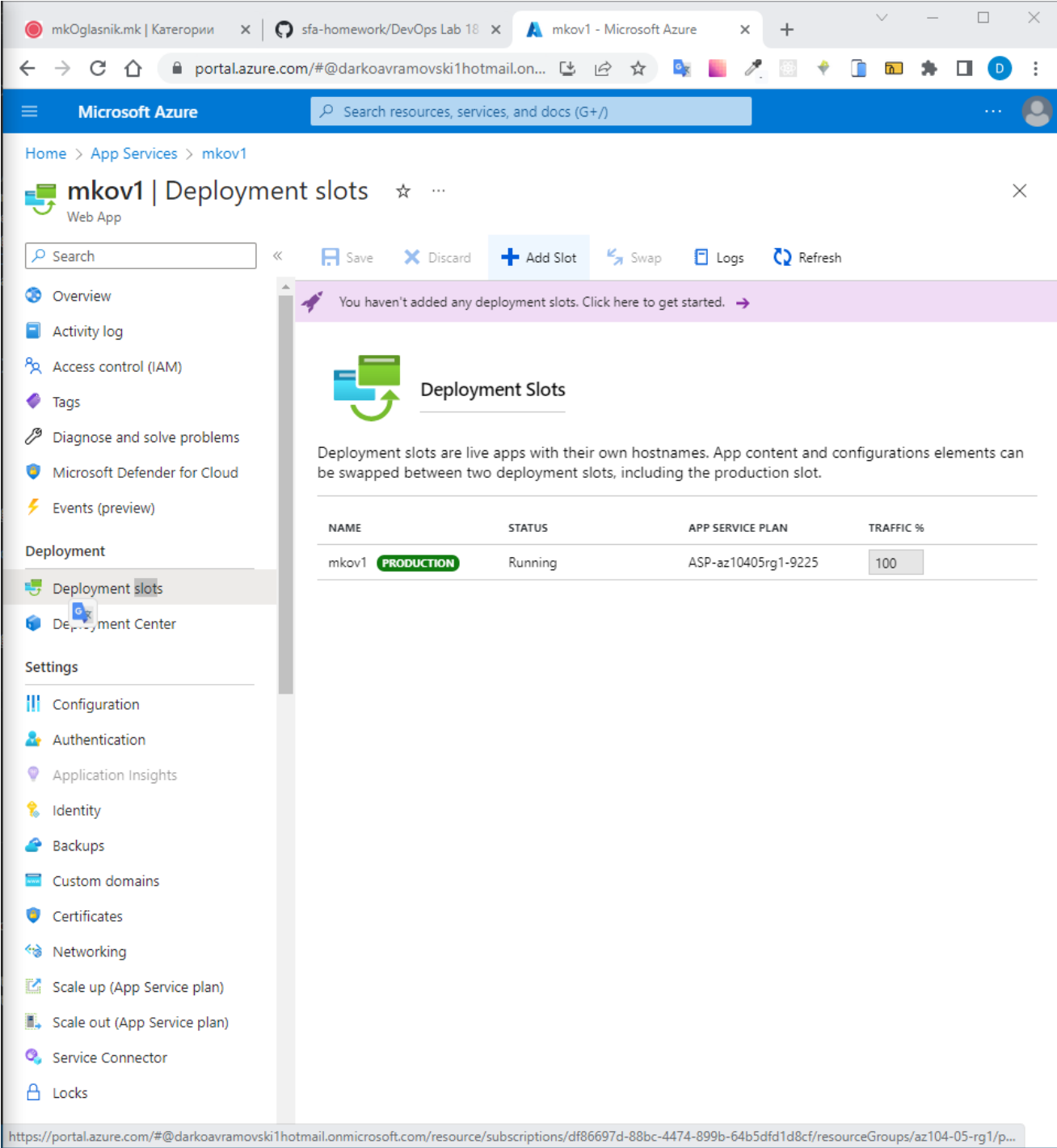
Plan Type

App Service plan

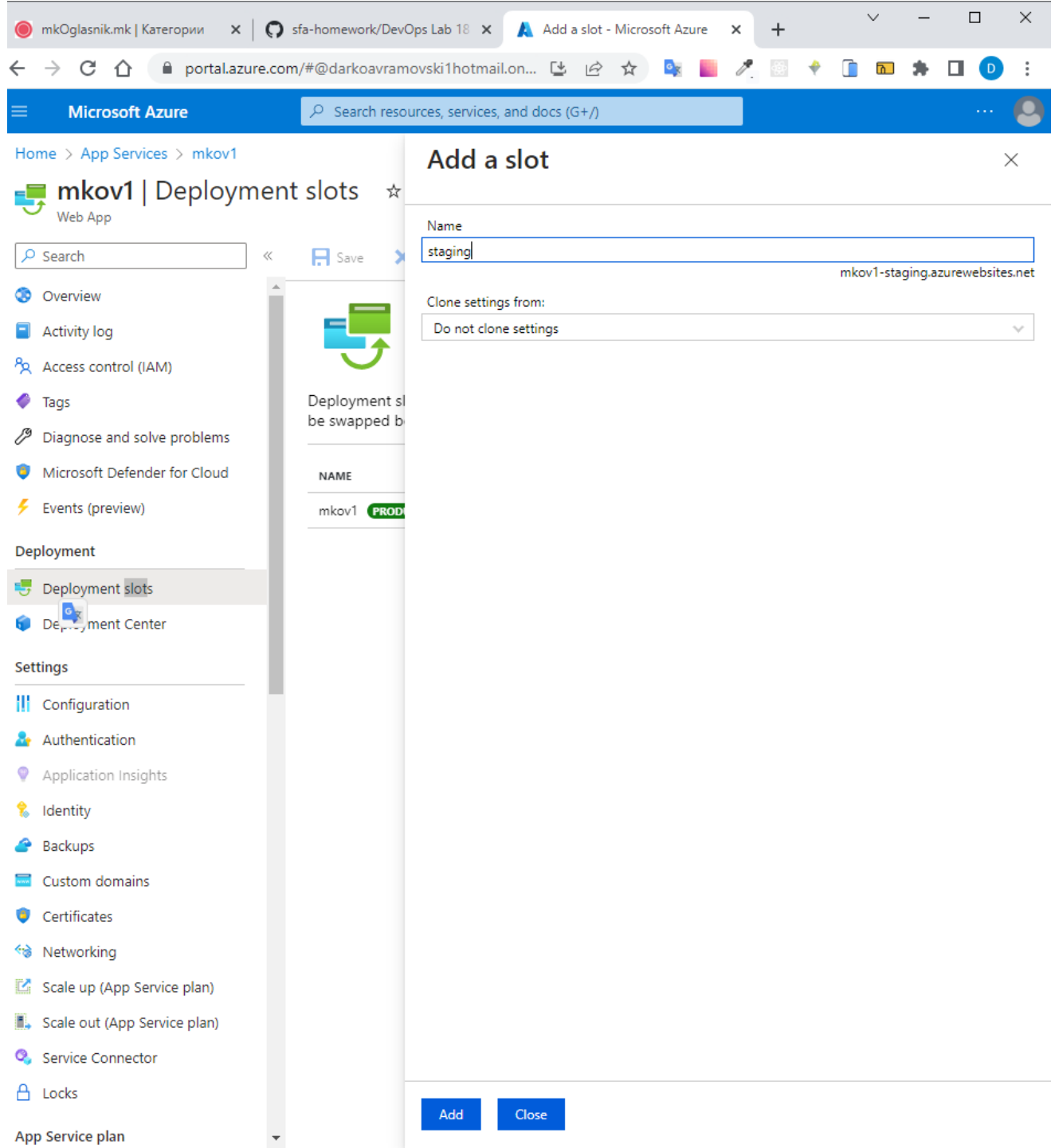
Name

ASP-az10405rg1-9225

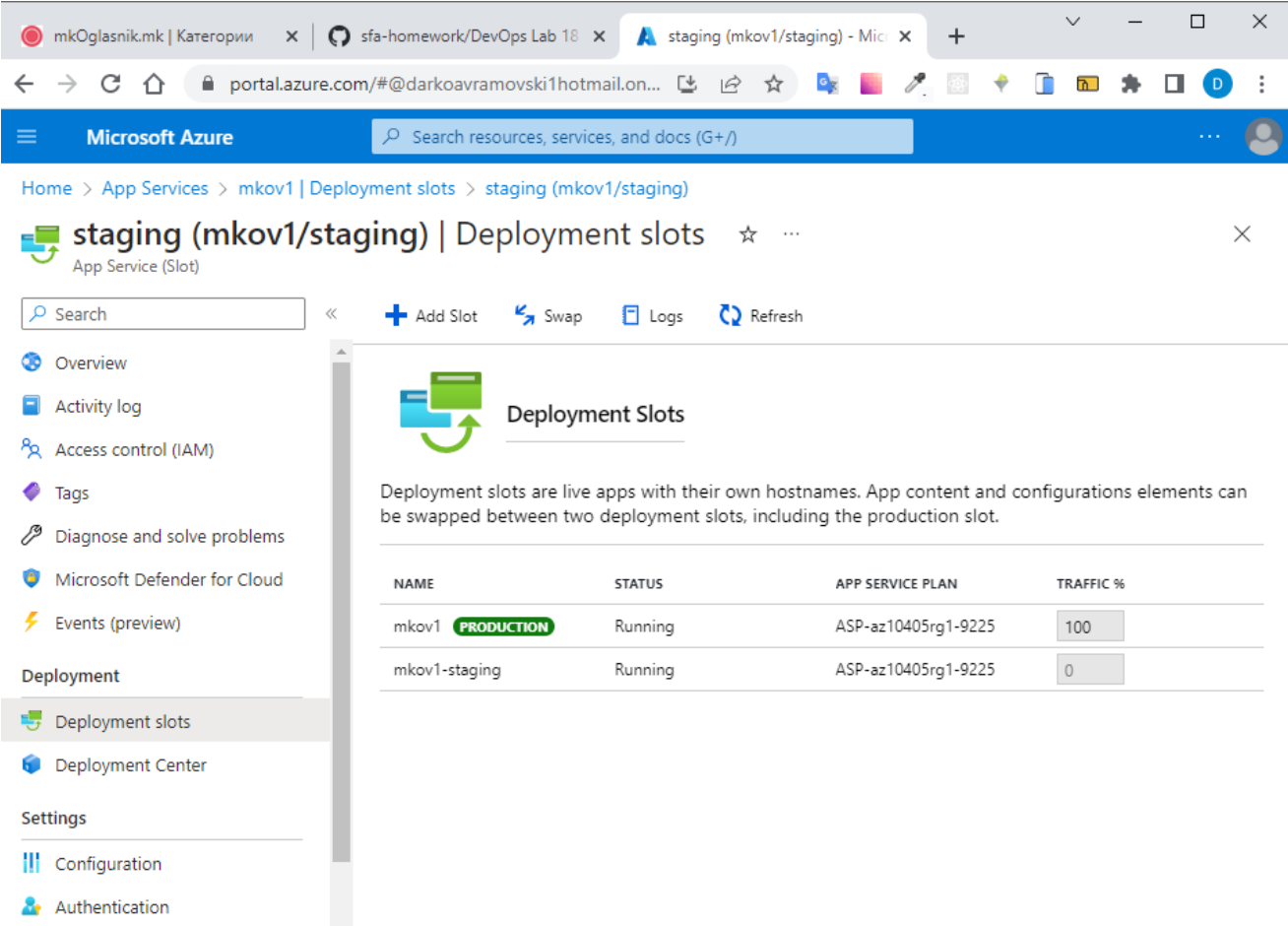
and click Add Slot



create staging slot as follow



succes we created new staging slot who differs from the one assigned to the production slot.



Task 3: Configure web app deployment settings

On the staging **deployment** slot blade, in the Deployment section, click **Deployment Center** and then select the **Settings** tab.

On the **Settings** tab, in the Source drop-down list, select **Local Git** and click the **Save** button

Microsoft Azure

Home > staging (mkov1/staging)

staging (mkov1/staging) | Deployment Center

App Service (Slot)

Search

Save Discard Browse Manage publish profile Sync Leave Feedback

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)

Service Connector

Locks

App Service plan

Settings * Logs FTPS credentials

Deploy and build code from your preferred source and build provider. [Learn more](#)

Source *

Local Git

Building with App Service Build Service.

Local Git

Local Git allows you to host a simple Git server for your app on your App Service plan. This can be used to quickly setup a CI/CD pipeline. [Learn more](#)

Repository

Your local git repository url will be generated upon completion.

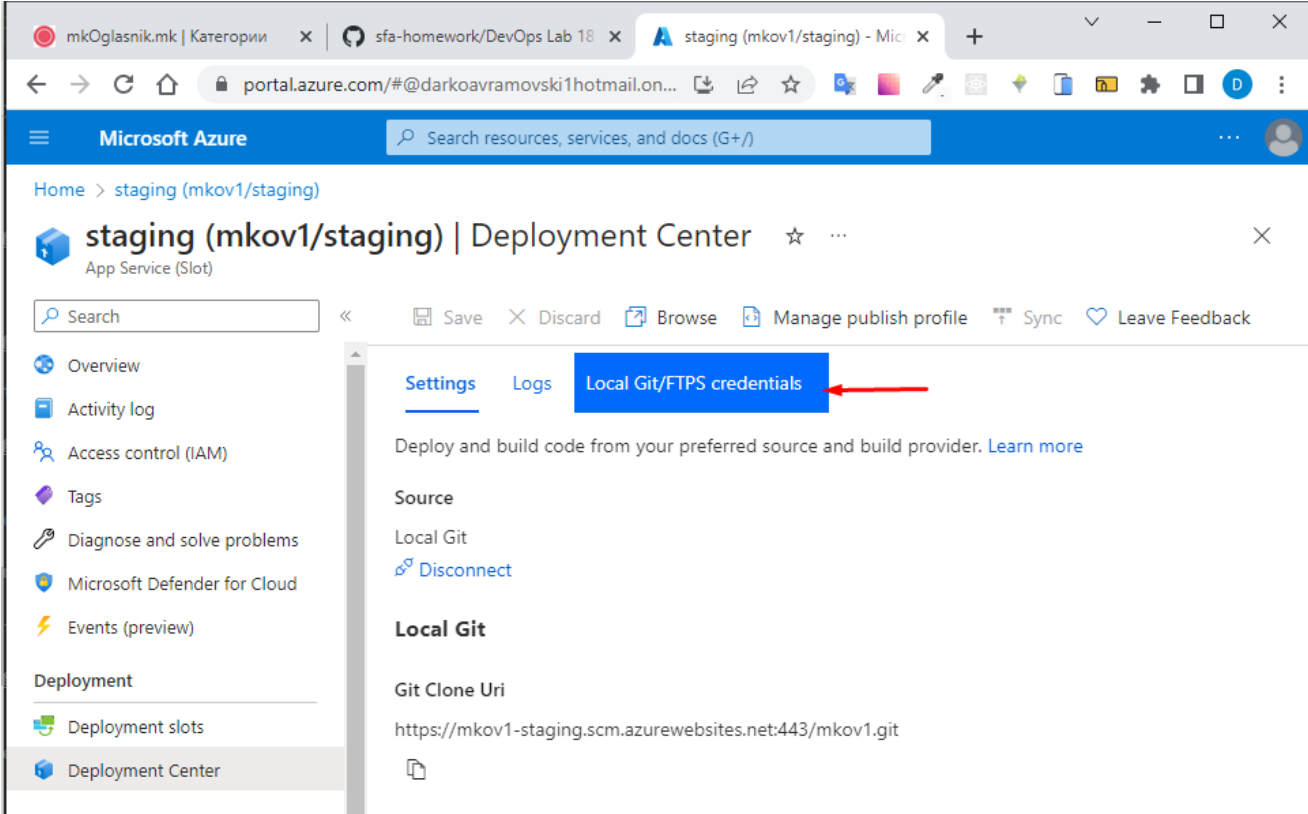
Branch

master

On the **Deployment Center** blade, copy the **Git Clone Url** entry to Notepad.

```
Git Clone Uri
https://mkov1-staging.scm.azurewebsites.net:443/mkov1.git
```

On the **Deployment Center** blade, select the **Local Git/FTPS** credentials



User Scope section, specify the following settings, and click Save.

The screenshot shows the Microsoft Azure portal interface for the 'staging (mkov1/staging)' Deployment Center. The left sidebar contains navigation links for 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), Service Connector, Locks, and App Service plan. The main content area shows the 'staging (mkov1/staging)' Deployment Center page. It includes a search bar, a 'Save' button, and a 'Discard' button. The 'Git Clone Uri' is displayed as 'https://mkov1-staging.scm.azurewebsites.net:443/mkov1.git'. The 'Application scope' section explains that application scope credentials are auto-generated and provide access only to this specific app or deployment slot. The 'Username' field is filled with 'mkov1__staging\smkov1__staging' and the 'Password' field is filled with 'h0i7kDvev10c4R07TaLyFzfp56NExD3JF61bwuRdISJ3HsAlqqdF8JcsRDnH'. The 'User scope' section is highlighted with a red arrow and explains that user scope credentials are defined by the user and can be used with all the apps to which the user has access. The 'Username' field is filled with 'darevski' and the 'Password' field is filled with '.....'. The 'Confirm Password' field is also filled with '.....'.

Task 4: Deploy code to the staging deployment slot

Open cloud shell / PowerShell and clone git repo from powershell

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

From the Cloud Shell pane, run the following to set the current location to the newly created clone of the local repository containing the sample web app code.

```
Set-Location -Path $HOME/php-docs-hello-world/
```

From the Cloud Shell pane, run the following to add the remote git (make sure to replace the [deployment_user_name] and [git_clone_url] placeholders with the value of the Deployment Credentials user name and Git Clone Url, respectively, which you identified in previous task):

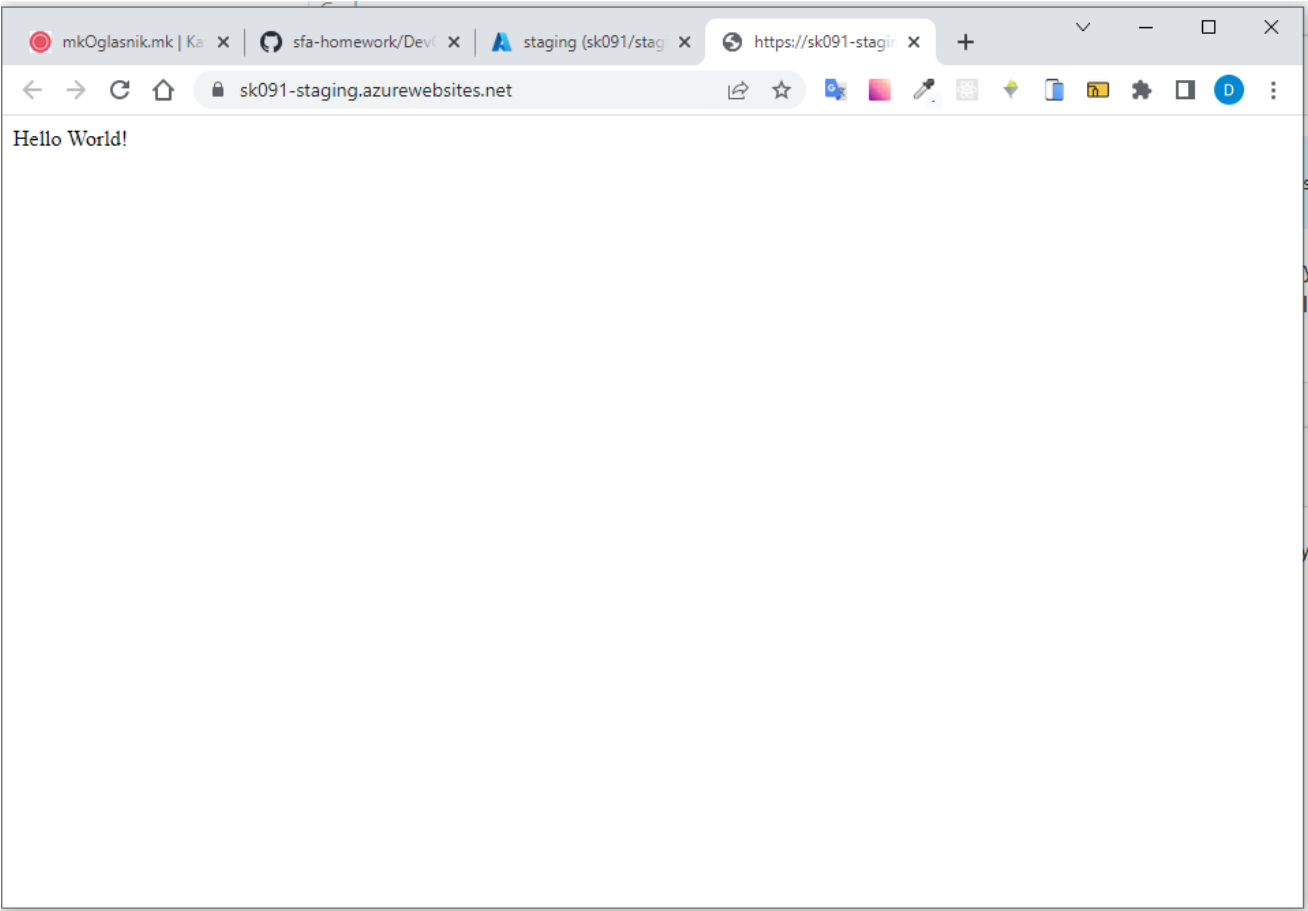
```
git remote add [deployment_user_name] [git_clone_url]

git remote add darevski https://github.com/Azure-Samples/php-docs-hello-world
```

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo and a search bar. The main content area displays the 'staging (sk091/staging)' Deployment Center page. The left sidebar contains a navigation menu with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Microsoft Defender for Cloud, Events, Deployment, and Settings. The main content area shows the 'Settings' tab for the deployment slot, with sections for Source (Local Git), Local Git (Disconnect), Build (App Service Build Service), and Runtime stack. A PowerShell terminal at the bottom shows the output of the git remote add command, indicating a successful deployment.

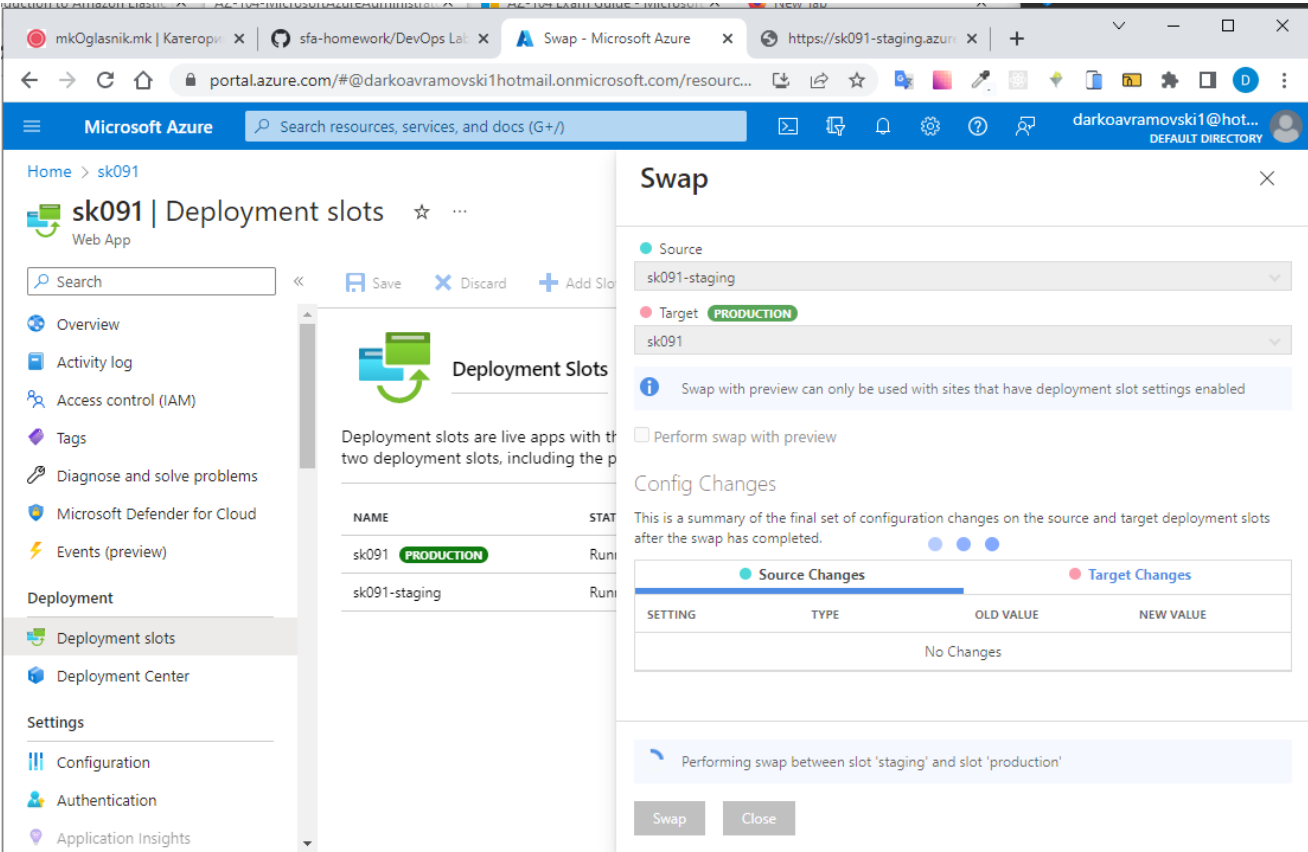
```
remote:
remote: Build Summary :
remote: =====
remote: Errors (0)
remote: Warnings (0)
remote:
remote: Triggering recycle (preview mode disabled).
remote: Deployment successful. deployer = deploymentPath =
remote: Deployment Logs : 'https://sk091-staging.scm.azurewebsites.net/newui/jsonviewer?view_url=/api/deployments/df425ea6ef61f981c71537ec89d1d821a2de975c/log'
To https://sk091-staging.scm.azurewebsites.net:443/sk091.git
* [new branch]      master -> master
PS ~/home/darko/php-docs-hello-world
https://portal.azure.com/#@darkoavramovski1hotmail.o...
```

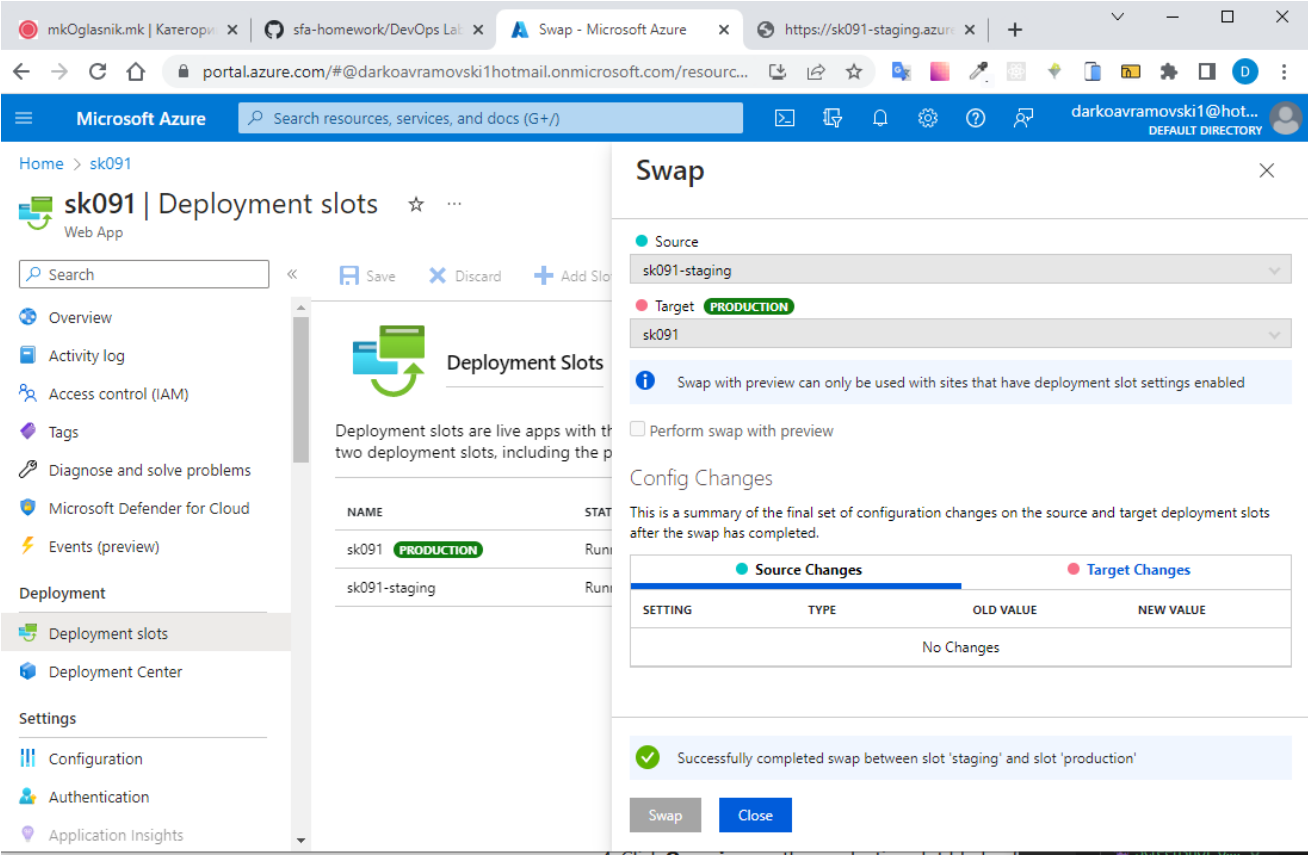
Verify that the browser page displays the Hello World! message and close the new tab.



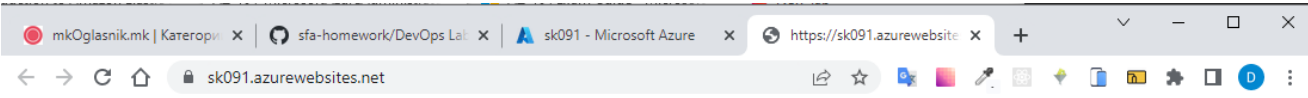
Task 5: Swap the staging slots

In the deployment section, click **Deployment slots** and then, click **Swap** toolbar icon.





Click **Overview** on the production slot blade of the web app and then click the **URL** link to display the web site home page in a new browser tab.



Task 6: Configure and test autoscaling of the Azure web app

In this task, you will configure and test autoscaling of Azure web app. Not wo

