

AZURE DEPLOYMENT SLOTS & SWAPPING

“Azure Functions deployment slots allow your function app to run different instances called "slots". Slots are different environments exposed via publicly available endpoint. One app instance is always mapped to the production slot, and you can swap instances assigned to a slot on demand.”

Let's, Perform an Activity using deployments Slots.

Step 1: Login to the Azure Portal, Search or Web Application Service and create a basic web app.

The screenshot shows the Azure Portal interface for a Web App named 'cfdemowebapp'. The left sidebar contains navigation options like 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, and Backups. The main content area shows the 'Essentials' section with the following details:

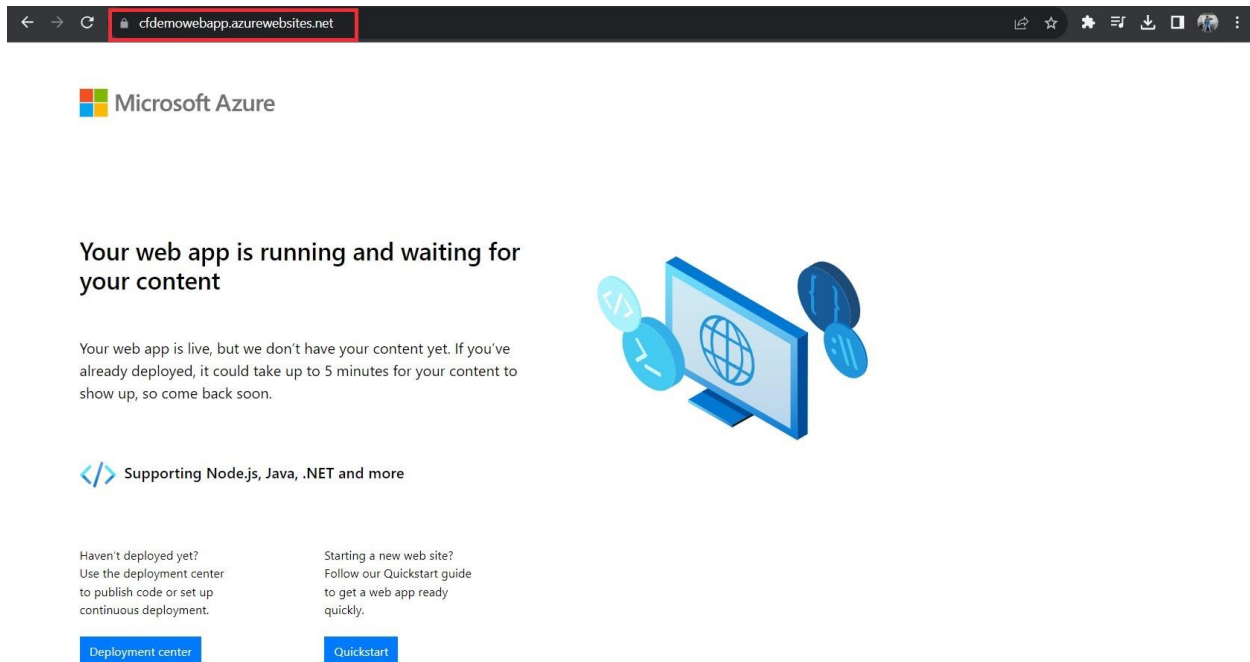
- Resource group (move): Practice
- Status: Running
- Location (move): Central India
- Subscription (move): Azure subscription 1
- Subscription ID: f55b27c1-cfe0-448c-9ca5-8454eecfeb4e
- Default domain: cfdemowebapp.azurewebsites.net (highlighted with a red box)
- App Service Plan: ASP-Practice-867d
- Operating System: Windows
- Health Check: Not Configured

Below the Essentials section, there are tabs for Properties, Monitoring, Logs, Capabilities, Notifications, and Recommendations. The Properties tab is active, showing the following details:

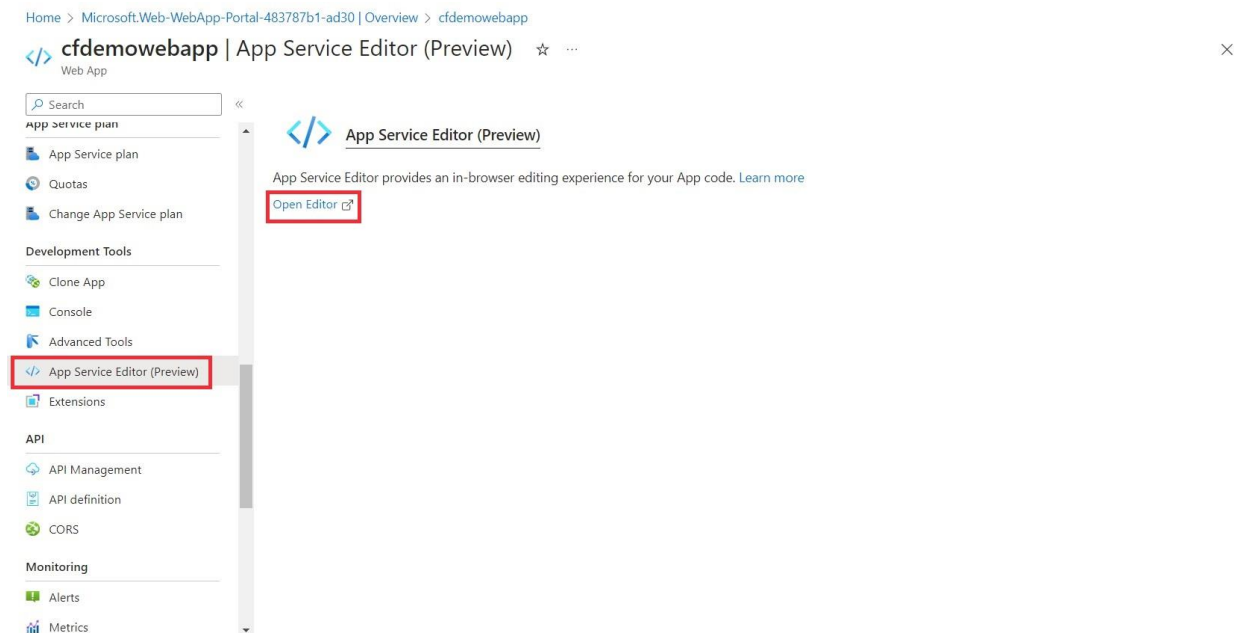
- Web app
- Name: cfdemowebapp
- Publishing model: Code
- Runtime Stack: Dotnet - v7.0
- Domains
- Default domain: cfdemowebapp.azurewebsites.net
- Custom domain: Add custom domain

At the bottom of the page, there is a status bar that says 'Waiting for portal.azure.com...'.

- On the App Service page, get the domain URL and access the app:

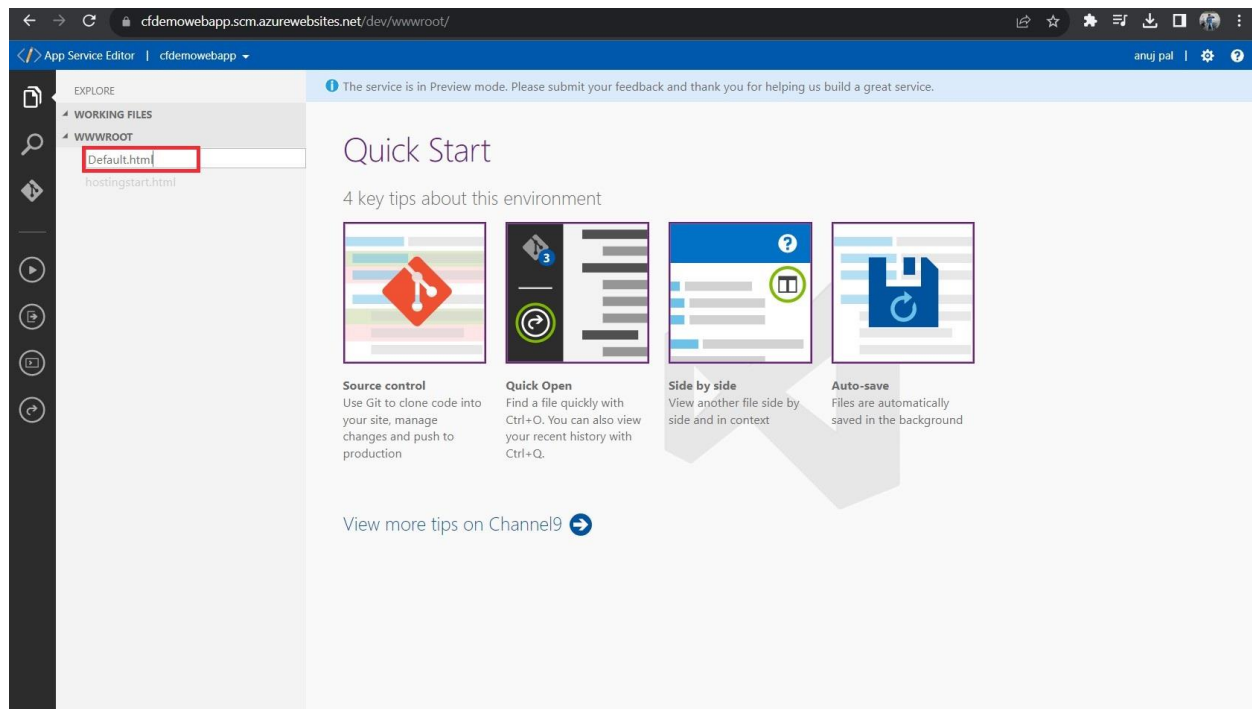


Step 2: On the app service page, scroll down and open the App Service Editor.



Step 3:

- A new browser tab will open. On the left side pane, Right Click and create a "Default.html" file.
- Enter the below HTML code to identify that it's the WebApp version 1.
- `<h1>This is Application – Version 1</h1>`



- Add /Default.html to the same URL and run it on your browser.



This is Application - Version 1

“Deployment slots are placeholders for different application versions within the Azure App Service. They are available on Standard, Premium (v1-v3) & Isolated tiers only.”

Till now we were using the Basic Plan. So, let's Scale up our WebApp Service to Standard Tier.

Step 4: Scroll down and click on Scale up (App Service Plan), Select the Standard S1 and Upgrade your service plan to standard.

Home > Microsoft.Web-WebApp-Portal-483787b1-ad30 | Overview > cfdemowebapp

cfdemowebapp | Scale up (App Service plan) ☆ ...

Web App

Search

Hardware view ☒ Feature view

Showing 14 App Service pricing plans

Name	ACU/vCPU	vCPU	Memory (GB)	Remote Storage (GB)	Cost per hour	Cost per month
Dev/Test (For less demanding workloads)						
Free F1	60 minutes/day...	N/A	1	1	Free	Free
Shared D1	240 minutes/day...	N/A	1	1	1.186 INR	865.685 INR
Basic B1	100	1	1.75	10	6.518 INR	4758.405 INR
Basic B2	100	2	3.5	10	12.958 INR	9459.48 INR
Basic B3	100	4	7	10	25.916 INR	18918.961 INR
Production (For most production workloads)						
<input checked="" type="checkbox"/> Standard S1	100	1	1.75	50	8.639 INR	6306.32 INR
Standard S2	100	2	3.5	50	17.278 INR	12612.641 INR
Standard S3	100	4	7	50	34.555 INR	25225.281 INR
Premium P1	100	1	1.75	250	25.916 INR	18918.961 INR
Premium P2	100	2	3.5	250	51.833 INR	37837.922 INR

Select

[Learn more about App Service pricing](#)

Step 5: After successfully upgrading your service, scroll down and go on to the Deployment Slots section. You'll observe that your default webapp in a production slot is running. Now, Click on Add Slot.

Home > Microsoft.Web-WebApp-Portal-483787b1-ad30 | Overview > cfdemowebapp

cfdemowebapp | Deployment slots ☆ ...

Web App

Search

Save Discard **+ Add Slot** Swap Logs Refresh

You haven't added any deployment slots. Click here to get started. →

Deployment Slots

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 %
cfdemowebapp PRODUCTION	Running	ASP-Practice-867d	100

<https://portal.azure.com/#@anujpal48916gmail.onmicrosoft.com/resource/subscriptions/155b27c1-cfe0-448c-9ca5-8454eefeb4e/resourcegroups/Practice/providers/Microsoft.Web/sites/cfdemowebapp/deploymentSlotsV2>

Step 6: Enter the Name for your Slot & Click on Add.

Home > Microsoft.Web-WebApp-Portal-483787b1-ad30 | Overview > cfdemowebapp

cfdemowebapp | Deployment slots

Web App

Search

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

Deployment Slots

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
cfdemowebapp	PRODUCTION Running

Add a slot

Name: WebV2

Clone settings from: Do not clone settings

Add Close

- Now, you can see the new slot has been created. You can see the exact clone of your webapp.

Home > Microsoft.Web-WebApp-Portal-483787b1-ad30 | Overview > cfdemowebapp

cfdemowebapp | Deployment slots

Web App

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Activity log

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Deployment Slots

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 %
cfdemowebapp	PRODUCTION Running	ASP-Practice-867d	100
cfdemowebapp-WebV2	Running	ASP-Practice-867d	0

https://portal.azure.com/#@anujpal48916gmail.onmicrosoft.com/resource/subscriptions/155b27c1-cfe0-448c-9ca5-8454eefeb4e/resourcegroups/Practice/providers/Microsoft.Web/sites/cfdemowebapp/deploymentSlotsV2

Note, that it is not a separate webapp, it's a slot within your original WebApp, it also has its unique URL to access.

Step 7: Run the URL on your browser.

Home > Microsoft.Web-WebApp-Portal-483787b1-ad30 | Overview > cfdemowebapp | Deployment slots >

WebV2 (cfdemowebapp/WebV2)

App Service (Slot)

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud

Deployment

- Deployment slots
- Deployment Center

Settings

- Configuration
- Authentication
- Application Insights
- Identity
- Backups
- Custom domains
- Certificates

Click here to access Application Insights for monitoring and profiling for your app.

Essentials

Resource group (move) : [practice](#)

Status : Running

Location (move) : Central India

Subscription (move) : [Azure subscription 1](#)

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eecfeb4e

Tags (edit) : [Add tags](#)

Default domain : [cfdemowebapp-webv2.azurewebsites.net](#)

App Service Plan : ASP-Practice-867d (S1: 1)

Operating System : Windows

Health Check : Not Configured

Properties

Web app

Name : cfdemowebapp/WebV2

Publishing model : Code

Domains

Default domain : [cfdemowebapp-webv2.azurewebsites.net](#)

Custom domain : [Add custom domain](#)


- The Default webpage will be loaded.

Not secure | [cfdemowebapp-webv2.azurewebsites.net](#)

Microsoft Azure

Your web app is running and waiting for your content

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.



Supporting Node.js, Java, .NET and more

Haven't deployed yet?
Use the deployment center to publish code or set up continuous deployment.

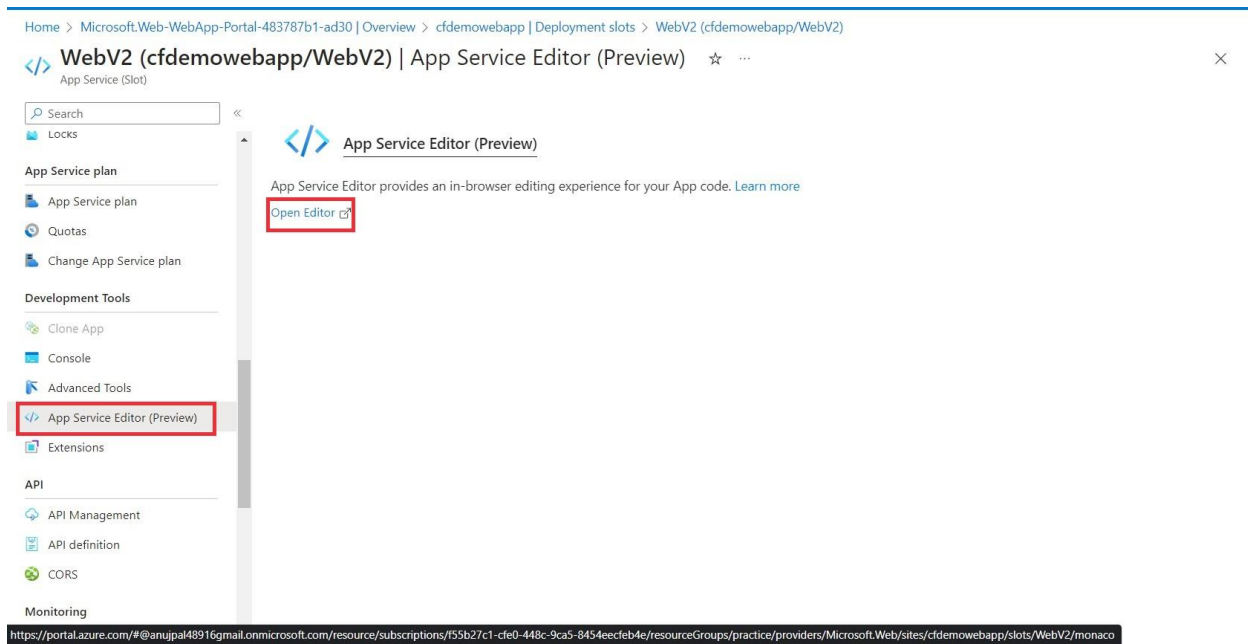
Starting a new web site?
Follow our Quickstart guide to get a web app ready quickly.

[Deployment center](#) [Quickstart](#)

Step 8:

- Make Simple Changes to the additional WebApp as done previously.
- Creating a "Default.html" file.
- Enter the below HTML code to identify that it's the WebApp version 2.
- `<h1>This is Application – Version 2</h1>`

- Test it on your browser.



“SWAP”

Example: - Suppose there are two slots for an app service — Production and Staging env. The production environment hosts version 1(v1) of the application, while the staging environment consists of the advanced version 2(v2) version. A swap will switch the application versions so the production slot hosts v2 while the staging slot hosts v1.

Step 9: On your WebApp service Page, Click on Swap. Select the Source and Target.

Home > All resources >

WebV2 (cfdemowebapp/WebV2) App Service (Slot)

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud

Deployment

- Deployment slots
- Deployment Center

Settings

- Configuration
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- Certificates

Essentials

Resource group (move) : Practice

Status : Running

Location (move) : Central India

Subscription (move) : Azure subscription 1

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eefeb4e

Tags (edit) : Add tags

Properties Monitoring Logs Capabilities Notifications

Web app

Name : cfdemowebapp/WebV2

Publishing model : Code

Domains

Default domain : cfdemowebapp-webv2.azurewebsites.net

Custom domain : Add custom domain

Swap

Source : cfdemowebapp-WebV2

Target : PRODUCTION cfdemowebapp

Swap with preview can only be used with sites that have deployment slot settings enabled

Perform swap with preview

Config Changes

This is a summary of the final set of configuration changes on the source and target deployment slots after the swap has completed.

Source Changes		Target Changes	
SETTING	TYPE	OLD VALUE	NEW VALUE
NetFrameworkVersion	General	v4.0	v7.0
PhpVersion	General	5.6	
WEBSITE_NODE_DEFA...	AppSetting	6.9.1	Not set

Swap Close

- It will take a few minutes to save the changes.

Home > All resources >

WebV2 (cfdemowebapp/WebV2) App Service (Slot)

Search

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Microsoft Defender for Cloud

Deployment

- Deployment slots
- Deployment Center

Settings

- Configuration
- Authentication
- Application Insights
- Identity
- Backups
- Custom domains
- Certificates

Essentials

Resource group (move) : Practice

Status : Running

Location (move) : Central India

Subscription (move) : Azure subscription 1

Subscription ID : f55b27c1-cfe0-448c-9ca5-8454eefeb4e

Tags (edit) : Add tags

Properties Monitoring Logs Capabilities Notifications

Web app

Name : cfdemowebapp/WebV2

Publishing model : Code

Domains

Default domain : cfdemowebapp-webv2.azurewebsites.net

Custom domain : Add custom domain

Swap

Source : cfdemowebapp-WebV2

Target : PRODUCTION cfdemowebapp

Swap with preview can only be used with sites that have deployment slot settings enabled

Perform swap with preview

Config Changes

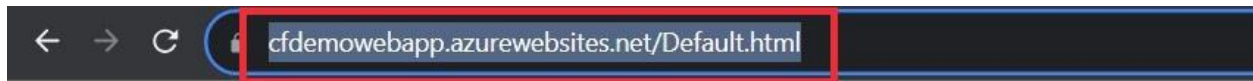
This is a summary of the final set of configuration changes on the source and target deployment slots after the swap has completed.

Source Changes		Target Changes	
SETTING	TYPE	OLD VALUE	NEW VALUE
NetFrameworkVersion	General	v4.0	v7.0
PhpVersion	General	5.6	
WEBSITE_NODE_DEFA...	AppSetting	6.9.1	Not set

Successfully completed swap between slot 'WebV2' and slot 'production'

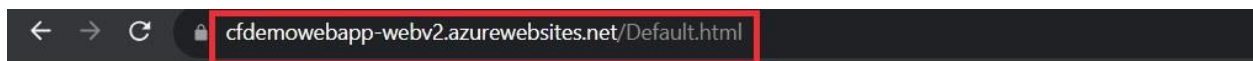
Swap Close

Paste the URL of your firstly created webapp. You'll notice that the data of WebAppV2 (slot) has been displayed.



This is Application Version 2

Similarly, the data to the initial webapp is displayed in webapp2 version.



This is Application - Version 1

Azure swaps the Virtual IP addresses of the source and destination slots, thereby swapping the URLs of the slots.