

DVS Technologies

Dvs Technologies Azure administration

Compiled and Scrutinized by
Mr. Shaan Shaik
(Senior DevOps Lead)

Words To The Students

Though we have taken utmost efforts to present you this book error free, but still it may contain some errors or mistakes. Students are encouraged to bring, if there are any mistakes or errors in this document to our notice. So that it may be rectified in the next edition of this document.

“Suppressing your doubts is Hindering your growth”.

We urge you to work hard and make use of the facilities we are providing to you, because there is no substitute for hard work. We wish you all the best for your future.

“The grass isn’t greener on the other side; the grass is greener where you water it.”

You and your suggestions are valuable to us; Help us to serve you better. In case of any suggestions, grievance, or complaints, please feel free to write us your suggestions, grievance and feedback on the following

Dvs.training@gmail.com

1 Service Plan creation

<https://azure.microsoft.com/en-us/pricing/details/app-service/linux/>

Region: Central US Currency: United States – Dollar (\$) USD Display pricing by: Hour

	Free Try for free	Basic Dedicated environment for dev/test	Standard Run production workloads	Premium Enhanced performance and scale	Isolated High-Performance, Security and Isolation
Web, mobile, or API apps	10	Unlimited	Unlimited	Unlimited	Unlimited
Disk space	1 GB	10 GB	50 GB	250 GB	1 TB
Maximum instances	–	Up to 3	Up to 10	Up to 30*	Up to 100
Custom domain	–	Supported	Supported	Supported	Supported
Auto Scale	–	–	Supported	Supported	Supported
Hybrid Connectivity	–	Supported	Supported	Supported	Supported
Virtual Network Connectivity	–	–	Supported	Supported	Supported
Private Endpoints	–	–	–	Supported	Supported

Home > App Service plans ✨ ...

Default Directory


+ Create ⚙️ Manage view ▾ ↻ Refresh ⬇️ Export to CSV 🔗 Open query 🏷️ Assign tags 🗉 Feedback

Filter for any field... Subscription == all Resource group == all Location == all Add filter

Showing 0 to 0 of 0 records.

No grouping ▾ List view ▾

Name ↑ Location ↑ Operating System ↑ Apps ↑ Pricing Tier ↑ Resource group ↑ Subscription ↑

 No app service plans to display

App Service plans represent the collection of physical resources used to host your apps, like location, scale, size and SKU

Create app service plan

[Learn more about App Service Plans](#)

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Home >

Create App Service Plan

Subscription * Pay-As-You-Go

Resource Group * (New) webapp-rg
[Create new](#)

App Service Plan details

Name * webapp-serviceplan

Operating System * ☒ Linux ☐ Windows

Region * Central US

Pricing Tier

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.
[Learn more](#)

Sku and size * Premium V2 P1v2
 210 total ACU, 3.5 GB memory
[Change size](#)

[Review + create](#) < Previous Next : Tags >

If you want to change the plan then you can use the below option

Microsoft Azure Search resources, services, and docs (G+)

Home >

Create App Service Plan

Subscription * Pay-As-You-Go

Resource Group * (New) webapp-rg
[Create new](#)

App Service Plan details

Name * webapp-serviceplan

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[Learn more](#)

Sku and size * Premium V2 P1v2
 210 total ACU, 3.5 GB memory
[Change size](#)

[Review + create](#) < Previous Next : Tags >

Spec Picker

Dev / Test
For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

The first Basic (B1) core for Linux is free for the first 30 days!

Recommended pricing tiers

F1 1 GB memory, 60 minutes/day compute, Free

B1 100 total ACU, 1.75 GB memory, A-Series compute equivalent, 946.67 INR/Month (Estimated)

[See additional options](#)

Included hardware
Every instance of your App Service plan will include the following hardware configuration:

Memory
Memory available to run applications deployed and running in the App Service plan.

Storage
1 GB disk storage shared by all apps deployed in the App Service

[Apply](#)

Here we are going to use the free tier under free tier you are going to get max of 60 minutes of cpu per day.

Let's activate the free tier for now

[Home](#) >

Create App Service Plan ...

Subscription * ⓘ

Resource Group * ⓘ
[Create new](#)

App Service Plan details

Name *

Operating System * ☒ Linux ☐ Windows

Region *

Pricing Tier

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app.

[Learn more](#)

Sku and size *

Free F1
1 GB memory
[Change size](#)

[Review + create](#)

< Previous

Next: Tags >

Changing plan:

Microsoft Azure Search resources, services, and docs (G+)

Home > Microsoft.Web-ASP-Portal-f885abda-b617 > webapp-serviceplan

webapp-serviceplan | Scale up (App Service plan)

Linux plan

Search (Ctrl+/)

Apps

File system storage

Networking

Scale up (App Service plan)

Scale out (App Service plan)

Properties

Locks

Monitoring

Alerts

Metrics

Logs

Diagnostic settings

Automation

Tasks (preview)

Dev / Test
For less demanding workloads

Production
For most production workloads

Isolated
Advanced networking and scale

Recommended pricing tiers

P1V2	P2V2	I3V2	P1V3
210 total ACU 3.5 GB memory Dv2-Series compute equivalent 5837.83 INR/Month (Estimated)	420 total ACU 7 GB memory Dv2-Series compute equivalent 11623.06 INR/Month (Estimated)	840 total ACU 14 GB memory Dv2-Series compute equivalent 23246.12 INR/Month (Estimated)	195 minimum ACU/vCPU 8 GB memory 2 vCPU 8940.82 INR/Month (Estimated)

P2V3	P3V3
195 minimum ACU/vCPU 16 GB memory 4 vCPU 17881.63 INR/Month (Estimated)	195 minimum ACU/vCPU 32 GB memory 8 vCPU 35763.27 INR/Month (Estimated)

[See additional options](#)

Included features

Every app hosted on this App Service plan will have access to these features:

[Apply](#)

Included hardware

Every instance of your App Service plan will include the following hardware configuration:

Azure Compute Units (ACU)

If you want to change the plan then you can perform the above steps

2 Using Visual Studio

Download the software

The image shows two screenshots of the Visual Studio website. The top screenshot is the 'Downloads' page at visualstudio.microsoft.com/downloads/. It features the Visual Studio logo and four main download options: Visual Studio 2022 (Version 17.0), Community, Professional, and Enterprise. The 'Free download' button for the Community edition is highlighted with a red box. The bottom screenshot is the 'Thank you for downloading Visual Studio' page at visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=17. It includes a navigation bar with 'Microsoft | Visual Studio' and links to 'Products', 'Downloads', 'Buy', 'Support', and 'Subscriber Access'. The main heading is 'Thank you for downloading Visual Studio', followed by the message 'Your download will start shortly. If your download does not begin, [click here to retry](#)'. Below this, there are sections for 'Getting started', 'Follow us' (with YouTube, Twitter, and Facebook icons), 'Sign up for the developer community newsletter', 'Install Visual Studio', and 'Getting Started with Visual Studio IDE'. The 'vs_community_13...exe' download link is highlighted with a red box.

visualstudio.microsoft.com/downloads/

Downloads

Visual Studio 2022
Version 17.0
The best comprehensive IDE for .NET and C++ developers on Windows. Fully packed with a sweet array of tools and features to elevate and enhance every stage of software development.
Release notes > Compare Editions > How to install offline >

Community
Powerful IDE, free for students, open-source contributors, and individuals
Free download

Professional
Professional IDE best suited to small teams
Free trial

Enterprise
Scalable, end-to-end solution for teams of any size
Free trial

Preview
Get early access to latest features not yet in the main release
Learn more > Release notes >

Feedback




visualstudio.microsoft.com/thank-you-downloading-visual-studio/?sku=Community&rel=17

Microsoft | Visual Studio Products Downloads Buy Support Subscriber Access Free Visual Studio All Microsoft

Thank you for downloading Visual Studio

Your download will start shortly. If your download does not begin, [click here to retry](#)

Getting started ▾

Follow us   

Sign up for the developer community newsletter >

Install Visual Studio

First please make sure to open your Visual Studio download and install. You can save installation time and disk space by selecting just the components needed. You can always incrementally add more components later at any time as needed.

Getting Started with Visual Studio IDE

vs_community_13...exe Show all

Visual Studio Installer

Before you get started, we need to set up a few things so that you can configure your installation.

To learn more about privacy, see the [Microsoft Privacy Statement](#).

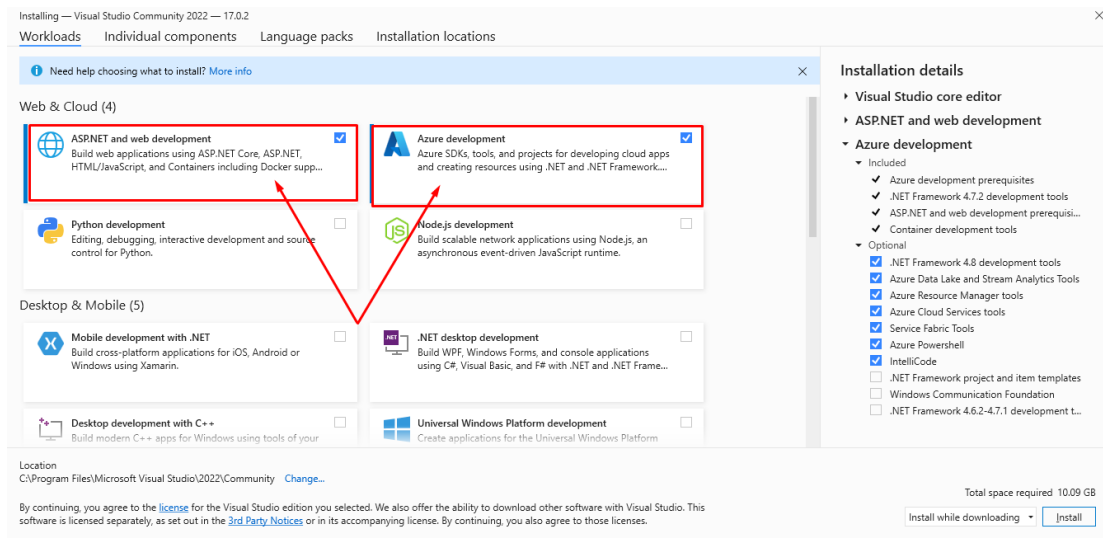
By continuing, you agree to the [Microsoft Software License Terms](#).

Continue

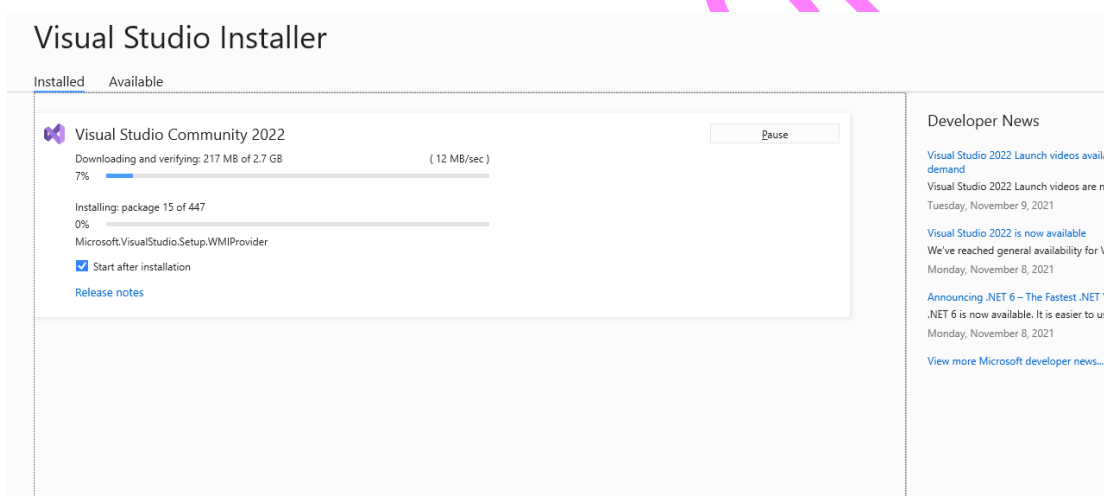
Visual Studio Installer

Getting the Visual Studio Installer ready.

- ✓ Downloaded
- ✓ Installed



Click on launch



It will take some time to install please wait ...

Visual Studio Installer

Installed Available



Visual Studio Community 2022

17.0.2

Powerful IDE, free for students, open-source contributors, and individuals

[Release notes](#)

Modify

Launch

More ▾

Visual Studio

Sign in to Visual Studio

- Sync settings across devices
- Collaborate in real time with LiveShare
- Integrate seamlessly with Azure Services

Sign in

No account? [Create one!](#)

[Not now, maybe later.](#)

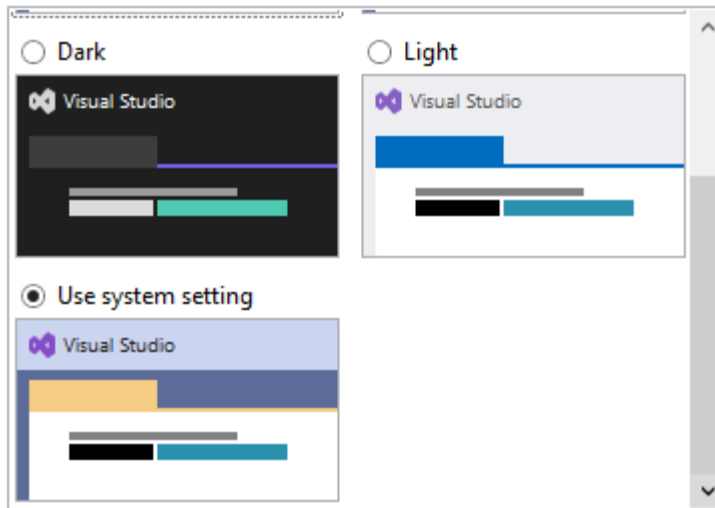
×

Visual Studio

Start with a familiar environment

Development Settings: General

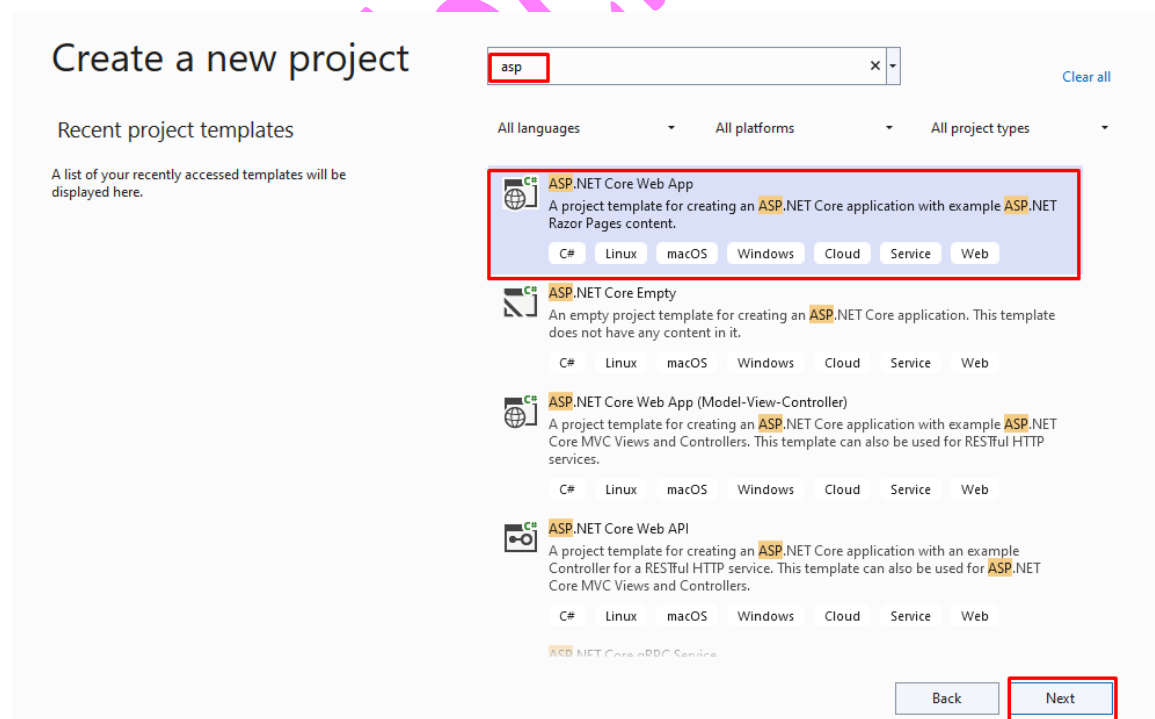
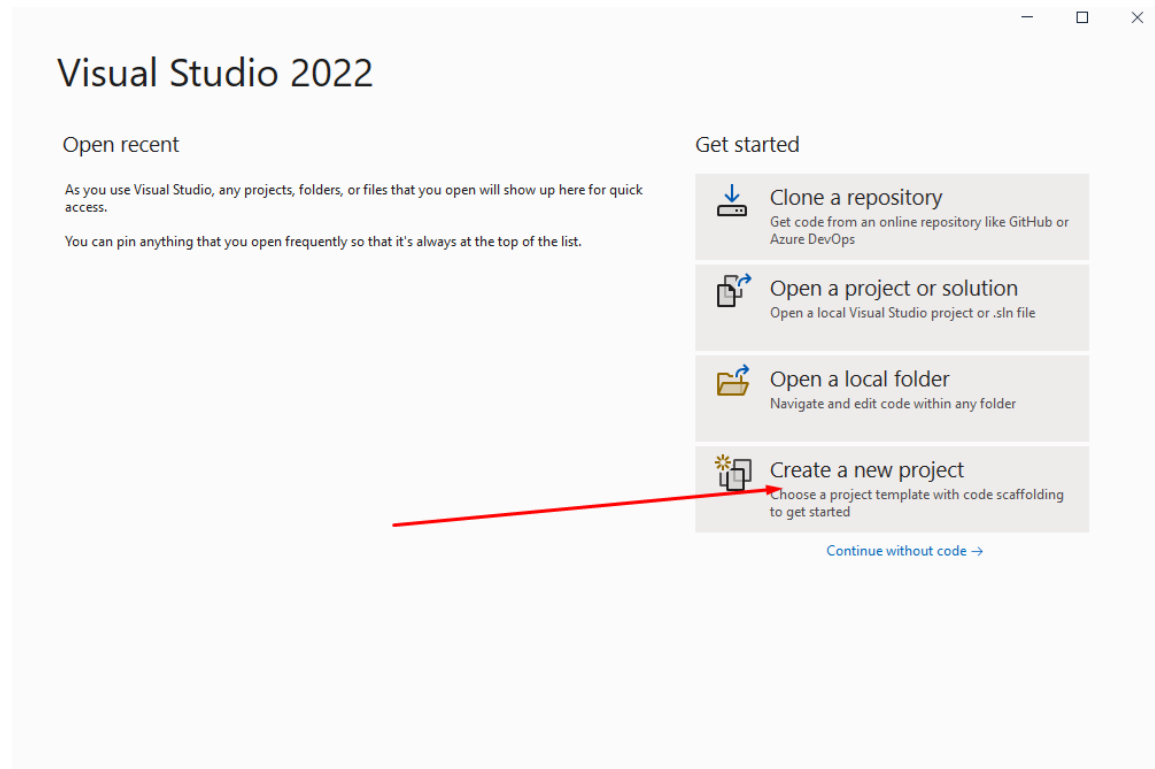
Choose your color theme



You can always change these settings later.

[Start Visual Studio](#)

3 Create a sample app



Let's create .net core web application

Configure your new project

ASP.NET Core Web App C# Linux macOS Windows Cloud Service Web

Project name
dvsdemoapp

Location
C:\Users\mastanvali\source\repos

Solution name ⓘ
dvsdemoapp

☐ Place solution and project in the same directory

Back Next

Additional information

ASP.NET Core Web App C# Linux macOS Windows Cloud Service Web

Framework ⓘ

.NET 6.0 (Long-term support)

Authentication type ⓘ

None

☒ Configure for HTTPS ⓘ

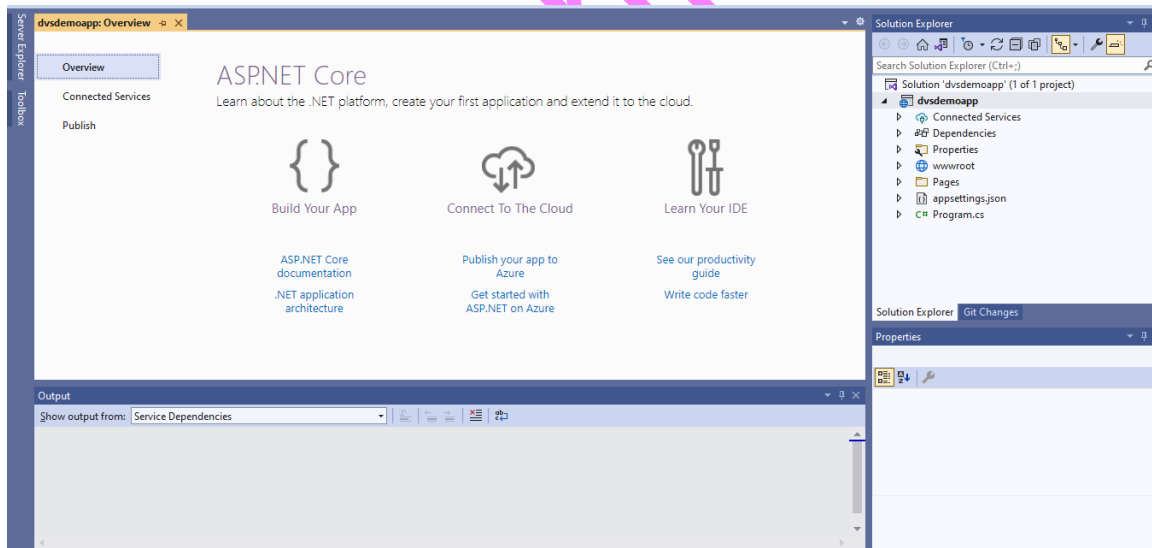
☐ Enable Docker ⓘ

Docker OS ⓘ

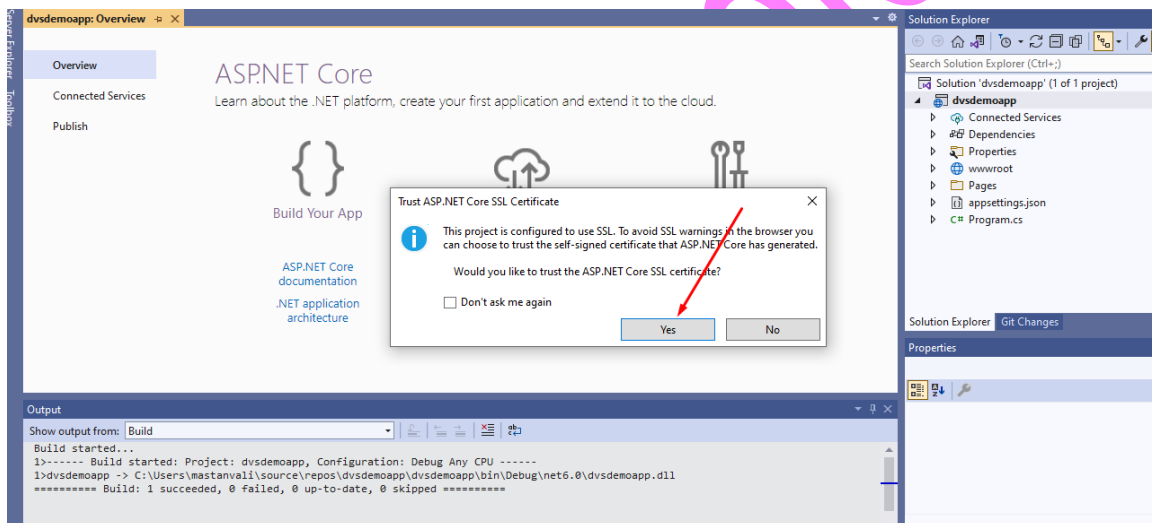
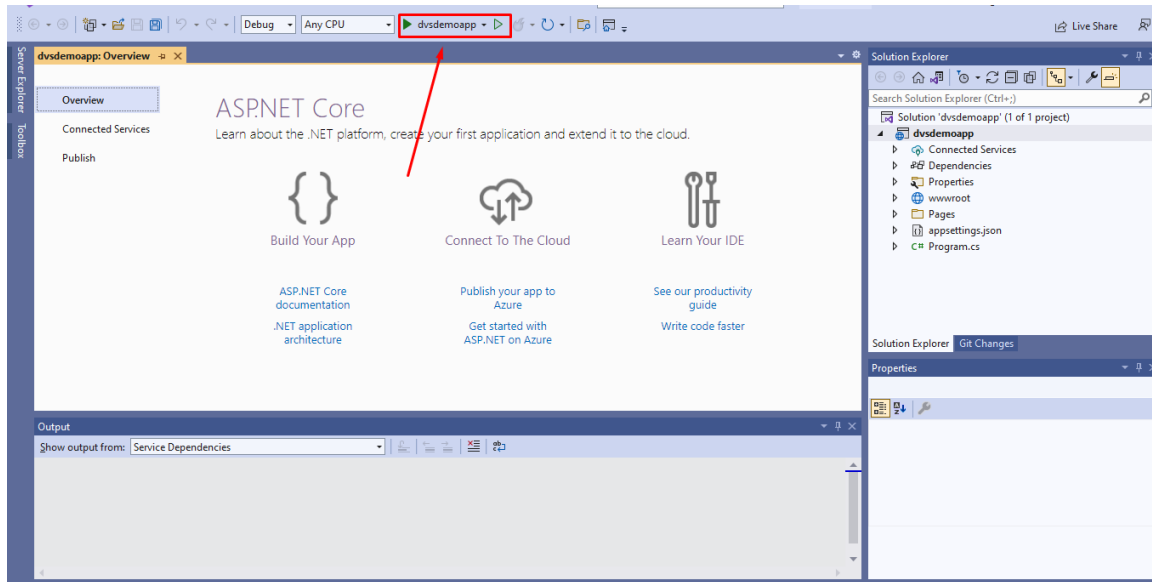
Linux

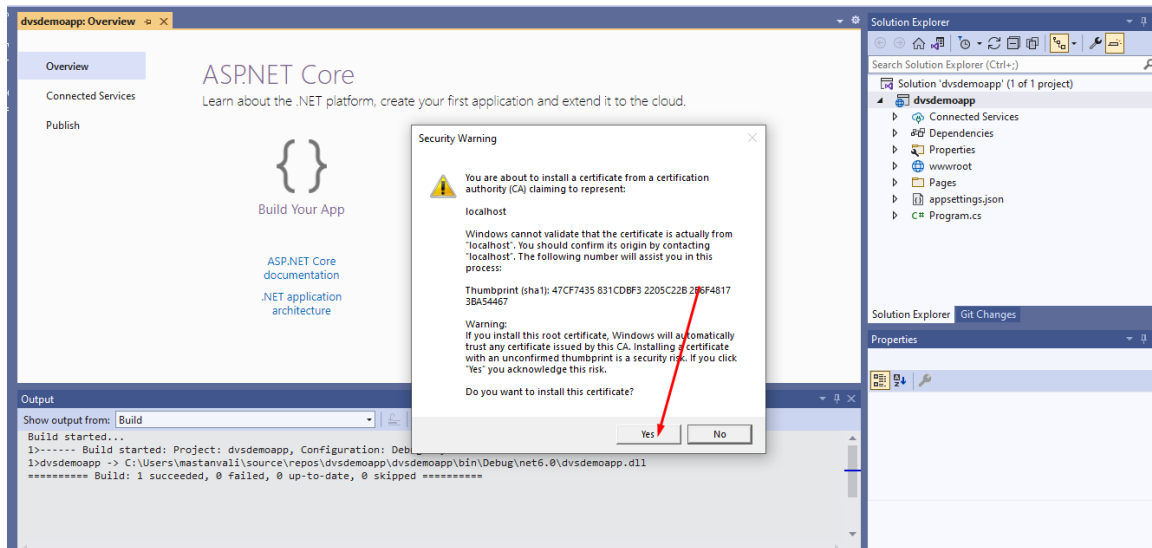
Back

Create



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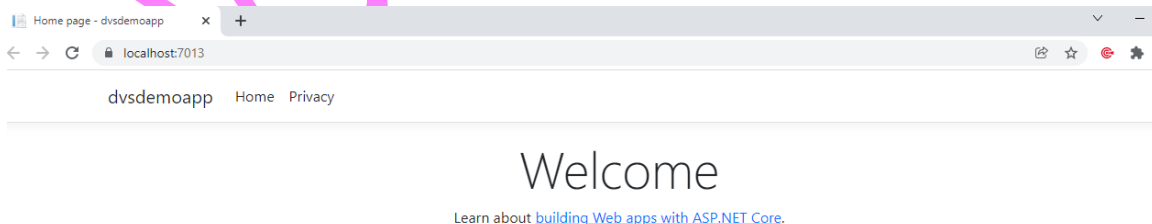




This will verify our application in local

```
C:\Users\mastanvali\source\repos\dvdemoapp\bin\Debug\net6.0\dvdemoapp.exe
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: https://localhost:7013
info: Microsoft.Hosting.Lifetime[14]
      Now listening on: http://localhost:5013
info: Microsoft.Hosting.Lifetime[0]
      Application started. Press Ctrl+C to shut down.
info: Microsoft.Hosting.Lifetime[0]
      Hosting environment: Development
info: Microsoft.Hosting.Lifetime[0]
      Content root path: C:\Users\mastanvali\source\repos\dvdemoapp\dvdemoapp\
```

Now if you hit the url in the browser you see you application running



4 AZ webapp creation

Azure provides web service as PaaS solution. In simple terms let's say your application code if you want to run the code then we need to have servers, infrastructure & etc but if you are using azure web app service then you no need to have infrastructure. Just create the web app service and run your code inside in it.

Hence we use app service plan, this plan help you to create your infrastructure like mem, cpu resources. You can run many web services on a single app service plan. In simple based on your consumption you can run as many web services as you can on one app service.

Let's create the web application:

Home > App Services

Default Directory

+ Create Manage view Refresh Export to CSV Open query Assign tags Start Restart Stop Delete Feedback

Filter for any field... Subscription == all Resource group == all Location == all Add filter

Showing 0 to 0 of 0 records. No grouping List view

Name Status Location Pricing Tier App Service Plan Subscription App Type

No app services to display

Create, build, deploy, and manage powerful web, mobile, and API apps for employees or customers using a single back-end. Build standards-based web apps and APIs using .NET, Java, Nodejs, PHP, and Python.

Create app service

Learn more about App Service

Home > App Services > Create Web App

Resource Group * webapp-rg Create new

Instance Details

Need a database? Try the new Web + Database experience.

Name * dvsapp1 .azurewebsites.net

Publish * Code Docker Container

Runtime stack * Java 8

Java web server stack * Tomcat 8.5

Operating System * Linux Windows

Region * Central US

not finding your App Service Plan? Try a different region.

App Service Plan

Review + create < Previous Next : Deployment >

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Note: you cannot club linux & windows servers together in the webapp. You can have only one.

If windows then use below:

[Home](#) > [App Services](#) >

Create Web App ...

Instance Details

Need a database? [Try the new Web + Database experience.](#)

Name * .azurewebsites.net

Publish * ☒ Code ☐ Docker Container

Runtime stack *

Operating System * ☐ Linux ☒ Windows

Region *
 ⓘ Not finding your App Service Plan? Try a different region.

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Windows Plan (Central US) * ⓘ
 [Create new](#)

App Service Plan

App Service plan pricing tier determines the location, features, cost and compute resources associated with your app. [Learn more](#)

Linux Plan (Central US) * ⓘ
 [Create new](#)

Sku and size * **Free F1**
 1 GB memory

[Review + create](#) [< Previous](#) [Next : Deployment >](#)

[Home](#) > [App Services](#) >

Create Web App ...

Resource Group	webapp-rg
Name	dvsapp1
Publish	Code
Runtime stack	Java 8
Java web server stack	Tomcat 8.5

App Service Plan

Name	webapp-serviceplan
Operating System	Linux
Region	Central US
SKU	Free
ACU	Shared infrastructure
Memory	1 GB memory

Monitoring

Application Insights	Not enabled
----------------------	-------------

Deployment


Create

< Previous


Next >


[Download a template for automation](#)


[Home](#) > [Microsoft.Web-WebApp-Portal-daa0315a-9563](#) >


 **dvsapp1** ...


App Service


 Overview


 Activity log

 Access control (IAM)


 Tags


 Diagnose and solve problems


 Security

 Events (preview)


Deployment


 Quickstart


 Deployment slots


 Deployment Center


Settings


 Configuration


 Authentication


 Browse


 Stop


 Swap


 Restart

 Delete

 Refresh

 Get publish profile

 Reset publish profile

 Share to mobile

...

JSON View

Essentials

Resource group (Move) : webapp-rg

Status : Running

Location : Central US

Subscription (Move) : Pay-As-You-Go

Subscription ID : 69fc0447-bb32-4449-bce8-002d5b9938c9

Tags (Edit) : [Click here to add tags](#)


URL : <https://dvsapp1.azurewebsites.net>

App Service Plan : [webapp-serviceplan \(F1: Free\)](#)


FTP/deployment username : No FTP/deployment user set

FTP hostname : <ftp://waws-prod-dm1-219.ftp.azurewebsites.windows.net>


FTPS hostname : <ftps://waws-prod-dm1-219.ftp.azurewebsites.windows.net>

 **Diagnose and solve problems**

Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

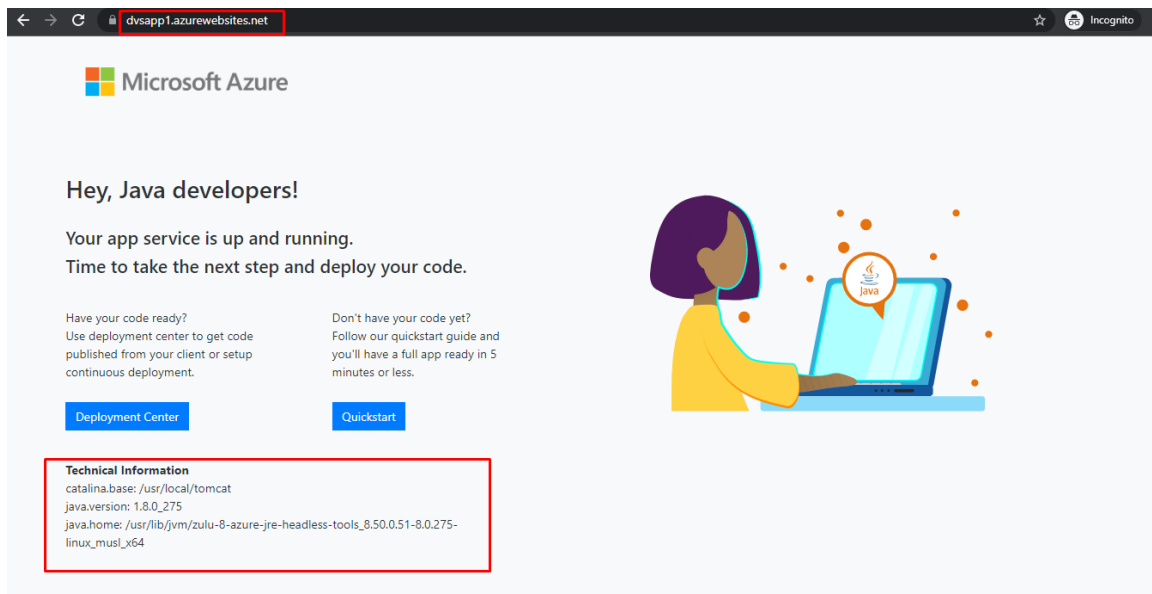
 **Application Insights**

Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

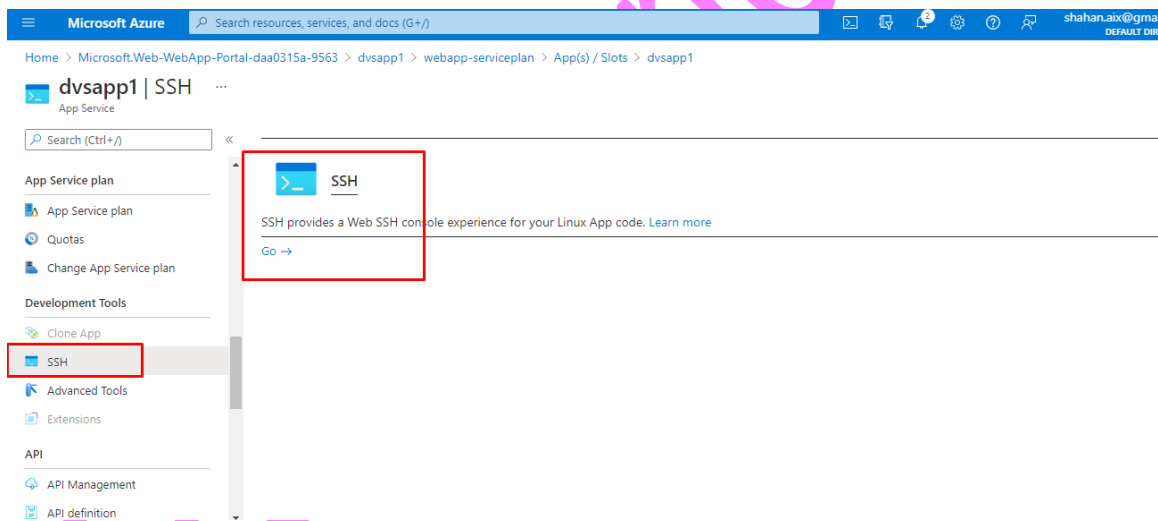
 **App Service Advisor**

App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

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If you want to login to the server then you can use the below



```
← → ↻ dvsapp1.scm.azurewebsites.net/webssh/host

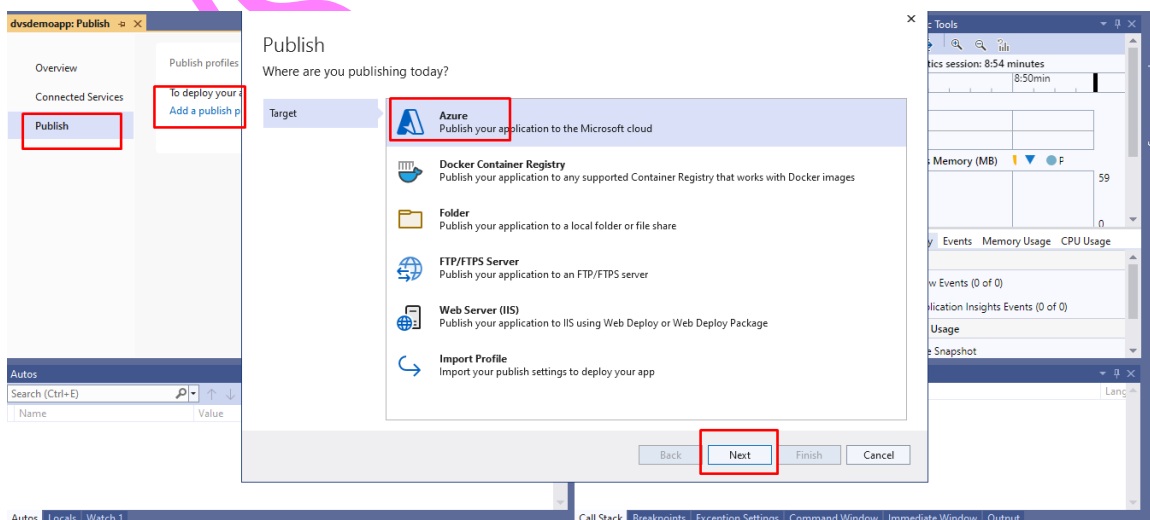
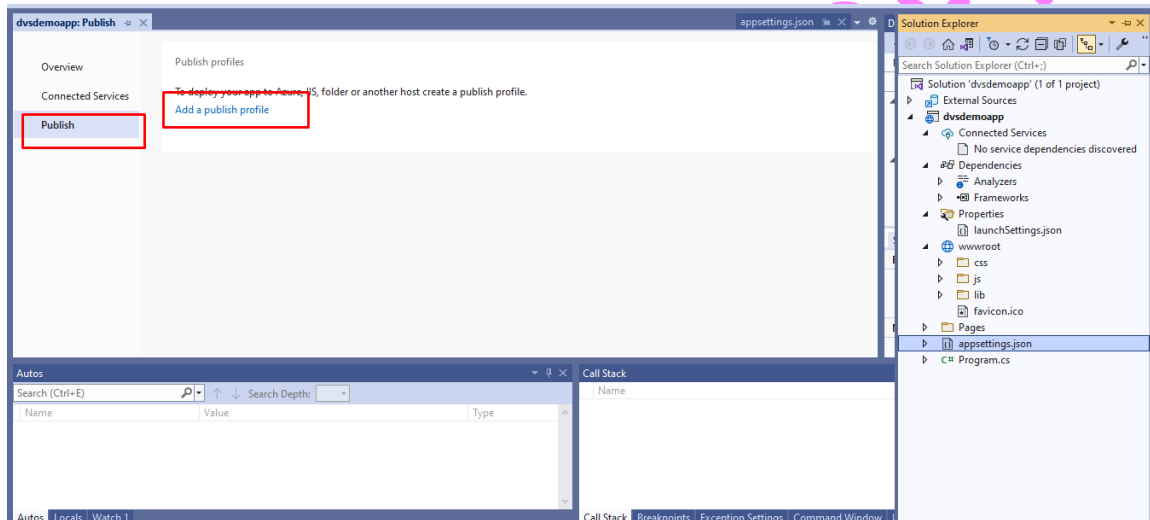
APP SERVICE ON LINUX

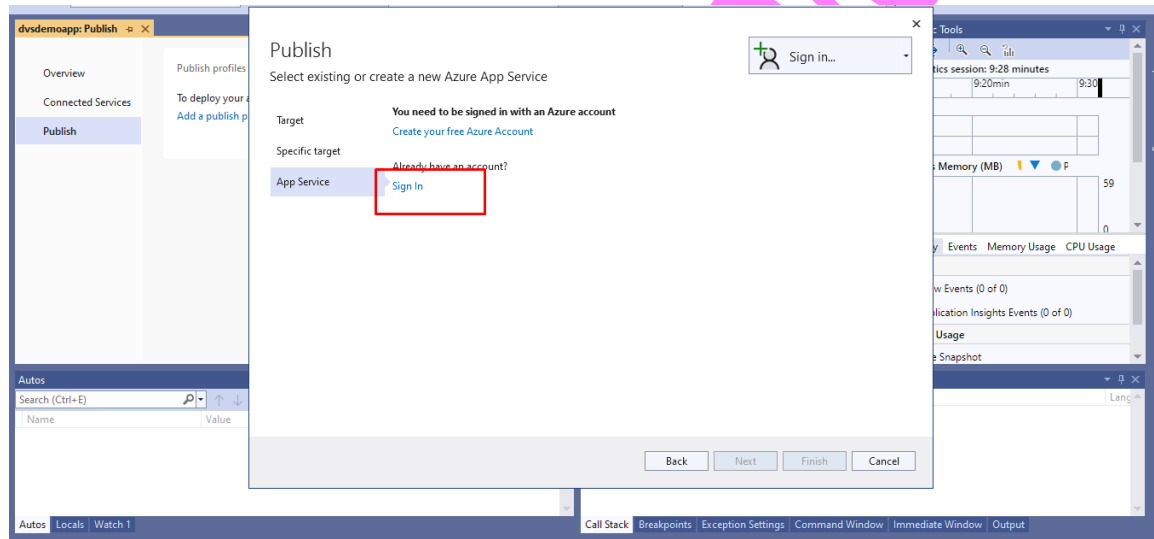
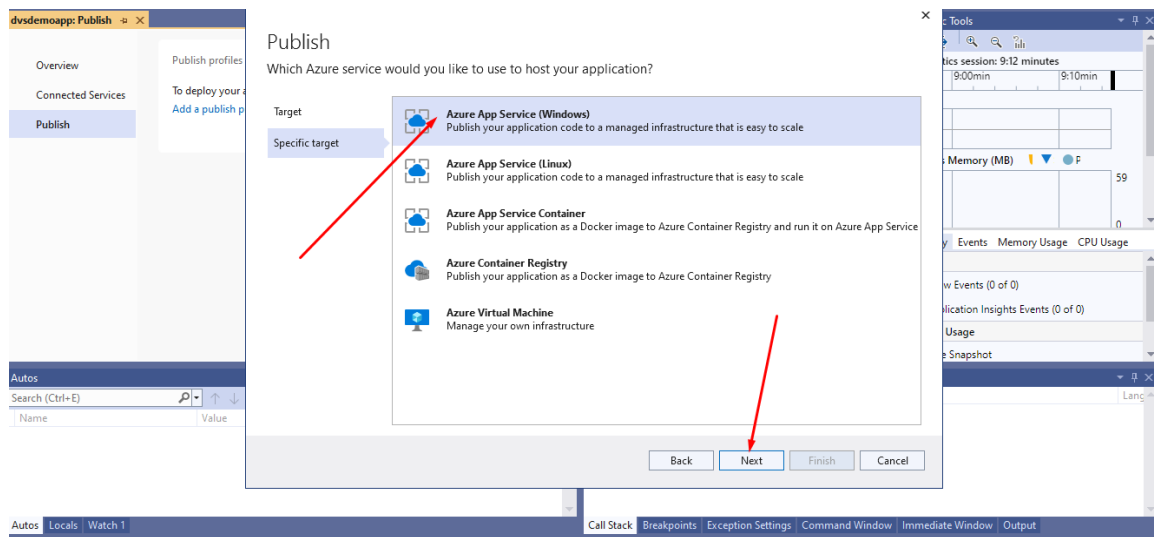
Documentation: http://aka.ms/webapp-linux

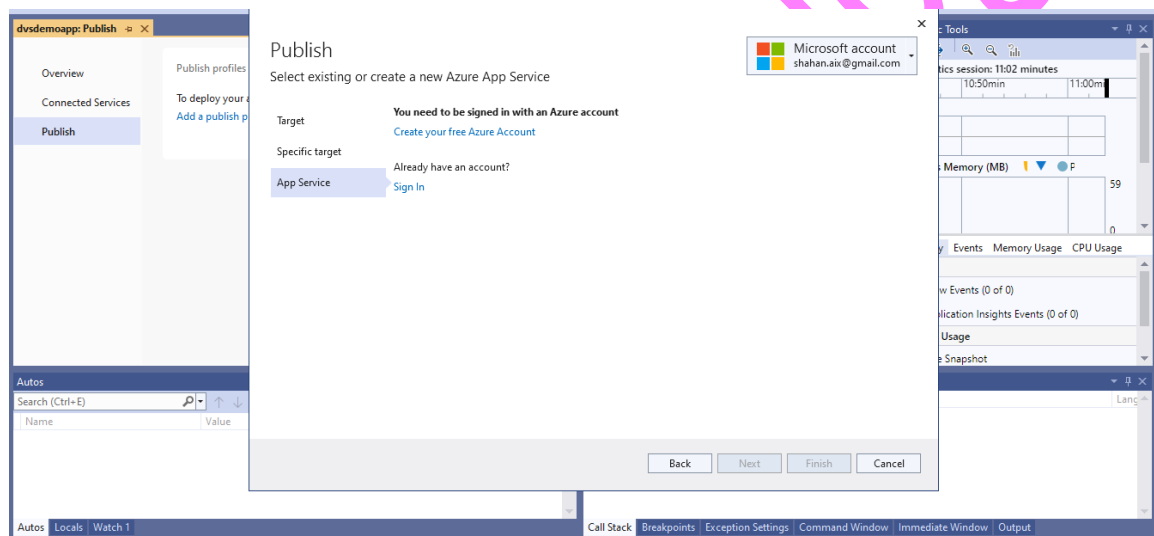
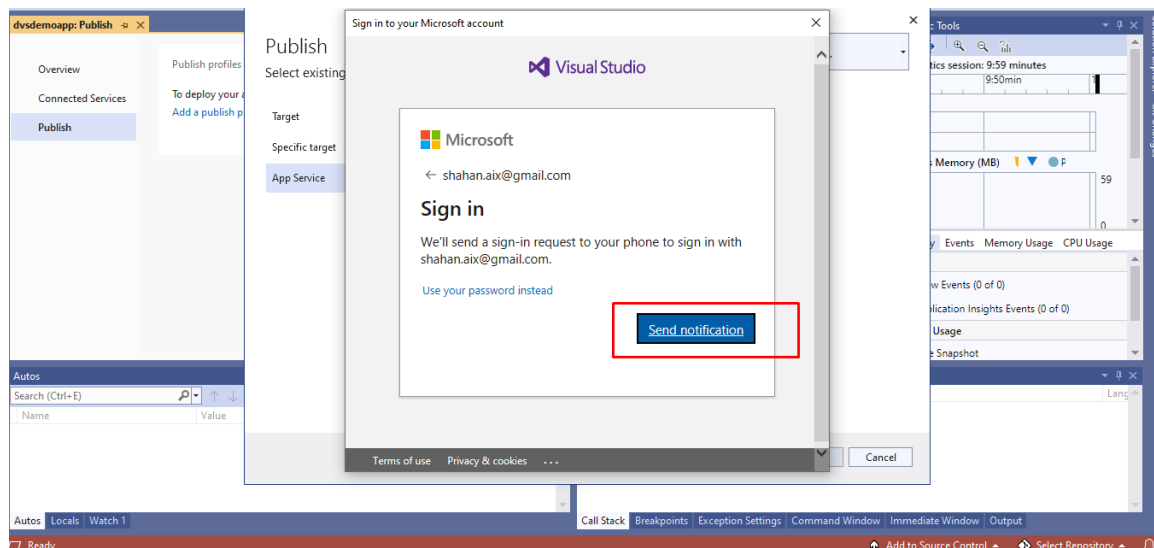
**NOTE**: No files or system changes outside of /home will persist beyond your application's current session. /home is your ap
ersistent storage and is shared across all the server instances.

bb0d481f71db:/home#
```

Now let's push our local code to our webapp:







Once I approved code from mobile it shows now I logged in.

Before we push the code our web app looks like below.

Home > Microsoft.Web-WebApp-Portal-45ad80d0-be54 >

dvsapp1
App Service

Search (Ctrl+/) < > Browse Stop Swap Restart Delete Refresh Get publish profile Reset publish profile Share to mobile

Overview

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems
- Security
- Events (preview)
- Deployment
 - Quickstart
 - Deployment slots
 - Deployment Center
- Settings
 - Configuration
 - Authentication

Click here to access our Quickstart guide for deploying code to your app →

JSON View

Essentials


Resource group (Move)	: dvs-webapp	URL	: https://dvsapp1.azurewebsites.net
Status	: Running	App Service Plan	: myweb-serviceplan (F1: Free)
Location	: Central US	FTP/deployment username	: No FTP/deployment user set
Subscription (Move)	: Pay-As-You-Go	FTP hostname	: ftp://waws-prod-dm1-197.ft.azurewebsites.windo...
Subscription ID	: 69fc0447-bb32-4449-bce8-002d5b9938c9	FTPS hostname	: ftps://waws-prod-dm1-197.ft.azurewebsites.windo...
Tags (Edit)	: Click here to add tags		

Diagnose and solve problems
Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

Application Insights
Application Insights helps you detect and diagnose quality issues in your apps, and helps you understand what your users actually do with it.

App Service Advisor
App Service Advisor provides insights for improving app experience on the App Service platform. Recommendations are sorted by freshness, priority and impact to your app.

← → ↻ dvsapp1.azurewebsites.net ☆

 Microsoft Azure

Hey, App Service developers!


Your app service is up and running.
Time to take the next step and deploy your code.

Have your code ready?
Use deployment center to get code published from your client or setup continuous deployment.

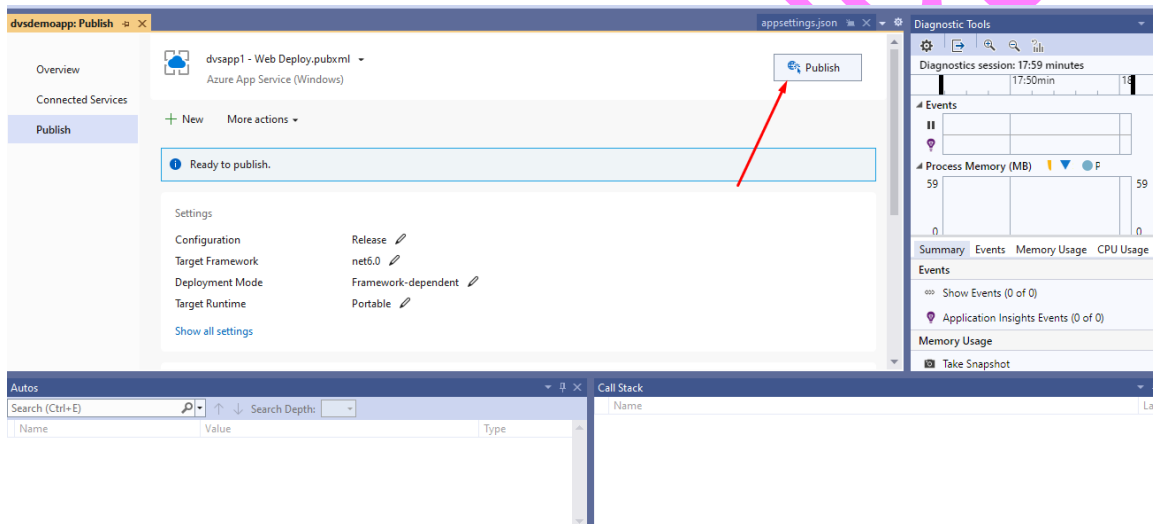
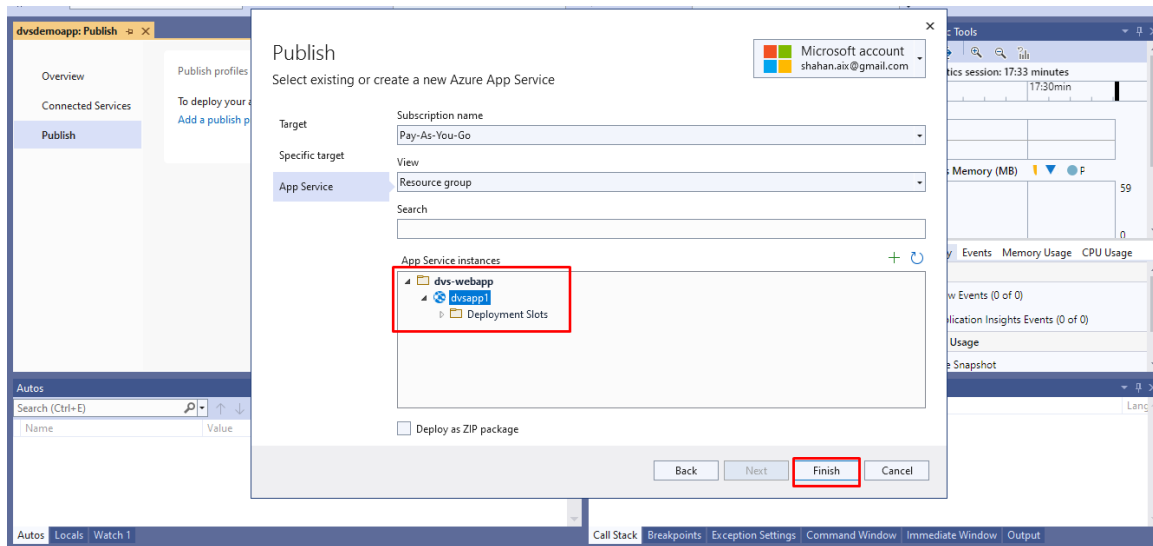
[Deployment Center](#)

Don't have your code yet?
Follow our quickstart guide and you'll have a full app ready in 5 minutes or less.

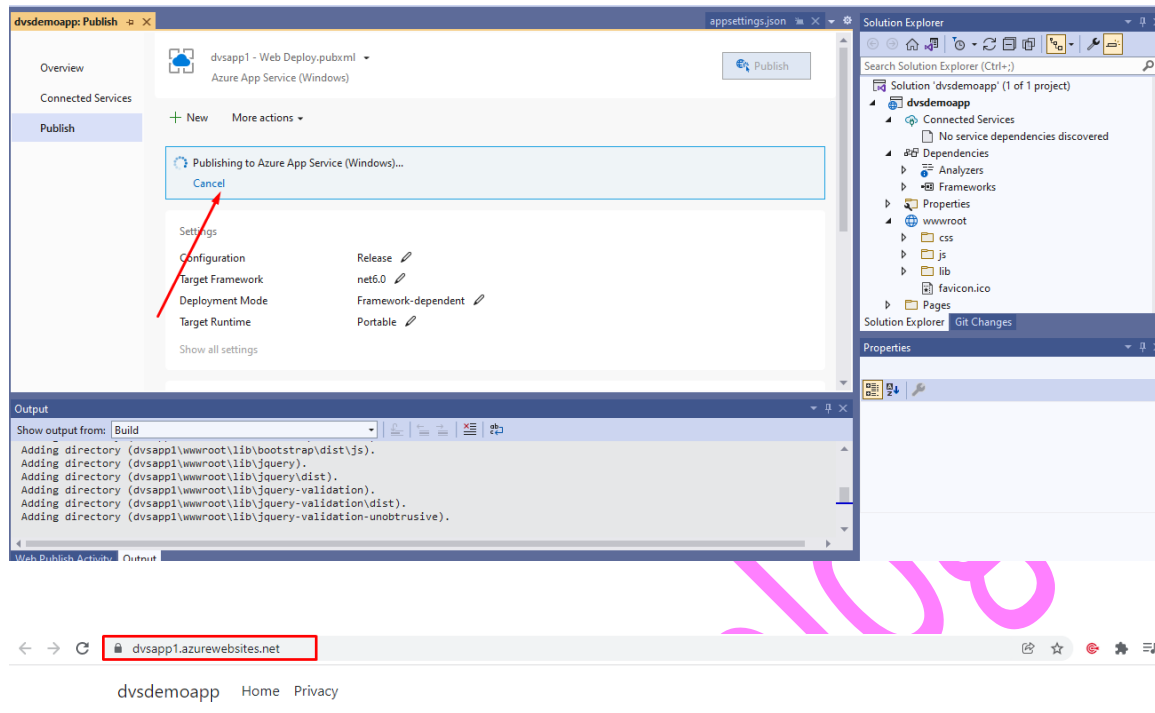
[Quickstart](#)



Now let's push the code



Press yes when it prompts

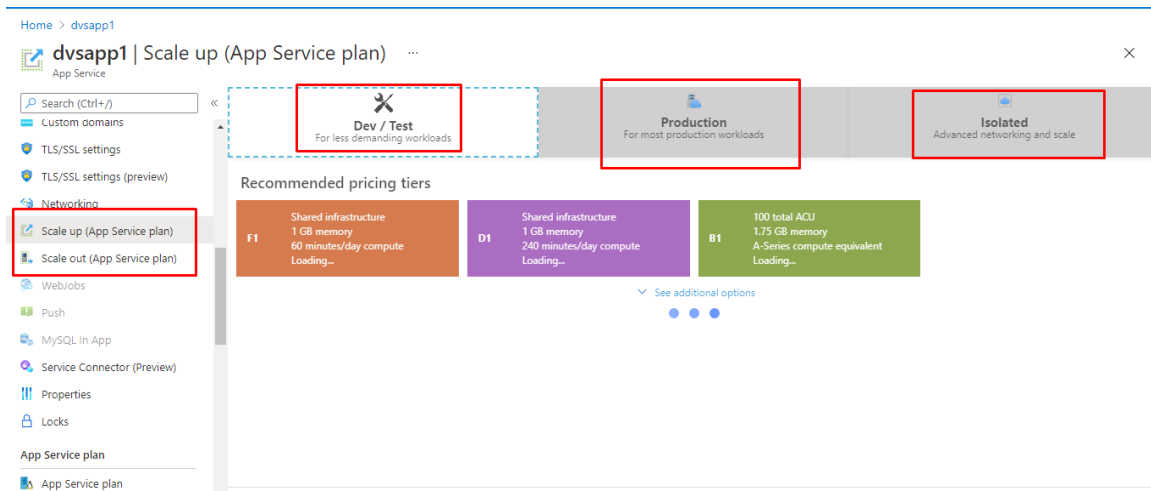


Now if you observe the above we see our application deployed successfully

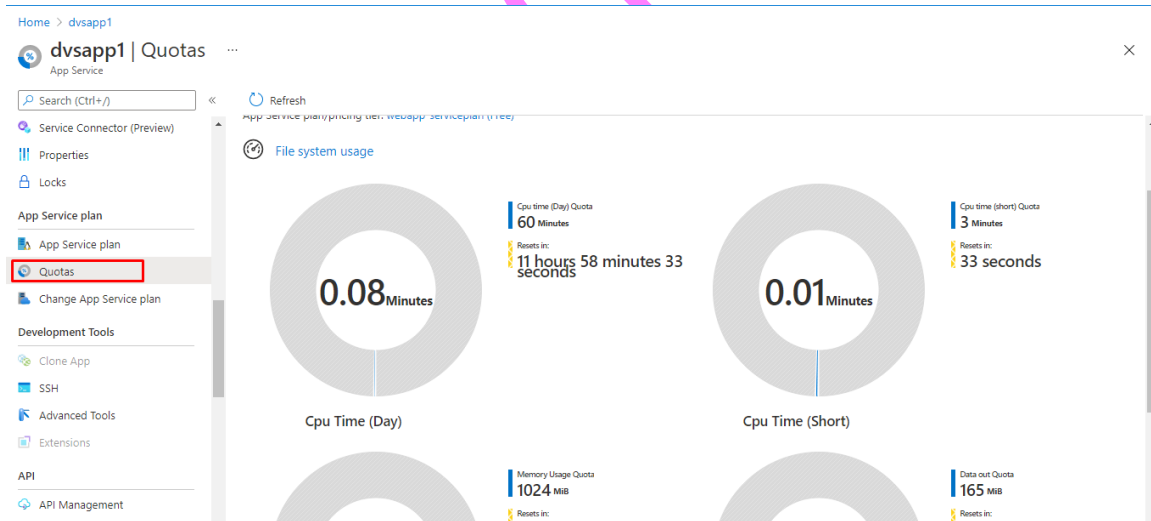
5 Explore webapp

Scale up & down

At any point of time if you feel like updating the plan then you can use this option



Resource utilized:



Increase instances:

By free account you will get only 1 instance to use if you want to increase the instance count then you need to upgrade your plan.

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Home > dvsapp1

dvsapp1 | Scale up (App Service plan)

App Service

Search (Ctrl+/)

- Authentication
- Application Insights
- Identity
- Backups
- Custom domains
- TLS/SSL settings
- TLS/SSL settings (preview)
- Networking
- Scale up (App Service plan)**
- Scale out (App Service plan)
- Webjobs
- Push
- MySQL In App
- Service Connector (Preview)
- Properties

Plan	Memory	Dv2-Series compute equivalent	Estimated Price (INR/Month)
P1V2	3.5 GB	Dv2-Series compute equivalent	5837.83
P2V2	7 GB	Dv2-Series compute equivalent	11623.06
P3V2	14 GB	Dv2-Series compute equivalent	23246.12
P1V3	8 GB	2 vCPU	8940.82
P2V3	16 GB	4 vCPU	17881.63
P3V3	32 GB	8 vCPU	35763.27

See additional options

Included features

Every app hosted on this App Service plan will have access to these features:

- Custom domains / SSL**
Configure and purchase custom domains with SNI and IP SSL bindings
- Auto scale**
Up to 20 instances. Subject to availability.
- Staging slots**
Up to 20 staging slots to use for testing and deployments before swapping them into

Included hardware

Every instance of your App Service plan will include the following hardware configuration:

- Azure Compute Units (ACU)**
Dedicated compute resources used to run applications deployed in the App Service Plan. [Learn more](#)
- Memory**
Memory per instance available to run applications deployed and running in the App Service plan.
- Storage**
250 GB disk storage shared by all apps deployed in the App Service plan.

Apply

Under premium support plans you will get more slots & vm's for running you application

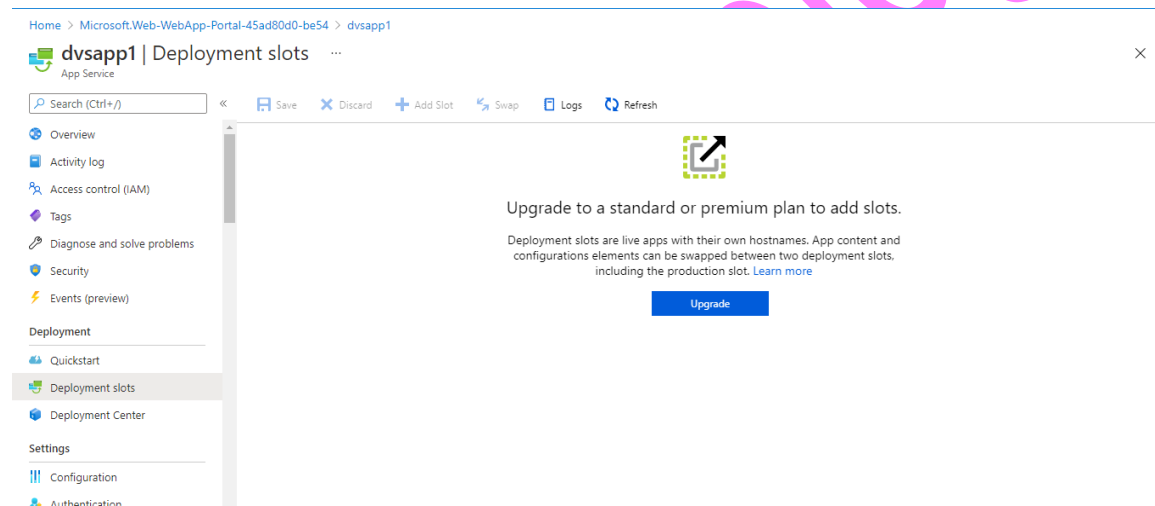
6 Deployment slots

Let's assume that you are having one web app service and you are doing the current deployment. Imagine that you are deploying as version 1.0 and it's in production. Now you have developed a new code and let's say its version as 2.0 before we disturb the production we should test this code end to end. Hence what we are going to do is to opt for deployment slots, one important thing is deployment slots are available for premium and standard service plans. Under free tier we are not eligible to test the deployment slots.

Here what we can do is simply create two slots let's say one as "staging" & other one as "production"

Test end-to-end application in staging & if you feel everything works fine then just swap the slots.

When you try to deploy the code in diff slots it will not support under free tier.



Let's upgrade our plan to standard

Microsoft Azure Search resources, services, and docs (G+)

Home > Microsoft.Web-WebApp-Portal-45ad80d0-be54 > dvsapp1 >

Spec Picker

Dev / Test For less demanding workloads

Production For most production workloads

Isolated Advanced networking and scale

Recommended pricing tiers

Tier	Configuration	Estimated Price (INR/Month)
P1V2	210 total ACU, 3.5 GB memory, Dv2-Series compute equivalent	10518.61
P2V2	420 total ACU, 7 GB memory, Dv2-Series compute equivalent	21037.22
P3V2	840 total ACU, 14 GB memory, Dv2-Series compute equivalent	42074.43
P1V3	195 minimum ACU/vCPU, 8 GB memory, 2 vCPU	17355.70
P2V3	195 minimum ACU/vCPU, 16 GB memory, 4 vCPU	34711.41
P3V3	195 minimum ACU/vCPU, 32 GB memory, 8 vCPU	69422.81

[See additional options](#)

Included features

Every app hosted on this App Service plan will have access to these features:

[Apply](#)

Included hardware

Every instance of your App Service plan will include the following hardware configuration:

Home > Microsoft.Web-WebApp-Portal-45ad80d0-be54 > dvsapp1 >

Spec Picker

Included features

Every app hosted on this App Service plan will have access to these features:

- Custom domains / SSL**
Configure and purchase custom domains with SNI and IP SSL bindings
- Auto scale**
Up to 20 instances. Subject to availability.
- Staging slots**
Up to 20 staging slots to use for testing and deployments before swapping them into production.
- Daily backups**
Backup your app 50 times daily.
- Traffic manager**
Improve performance and availability by routing traffic between multiple instances of your app.

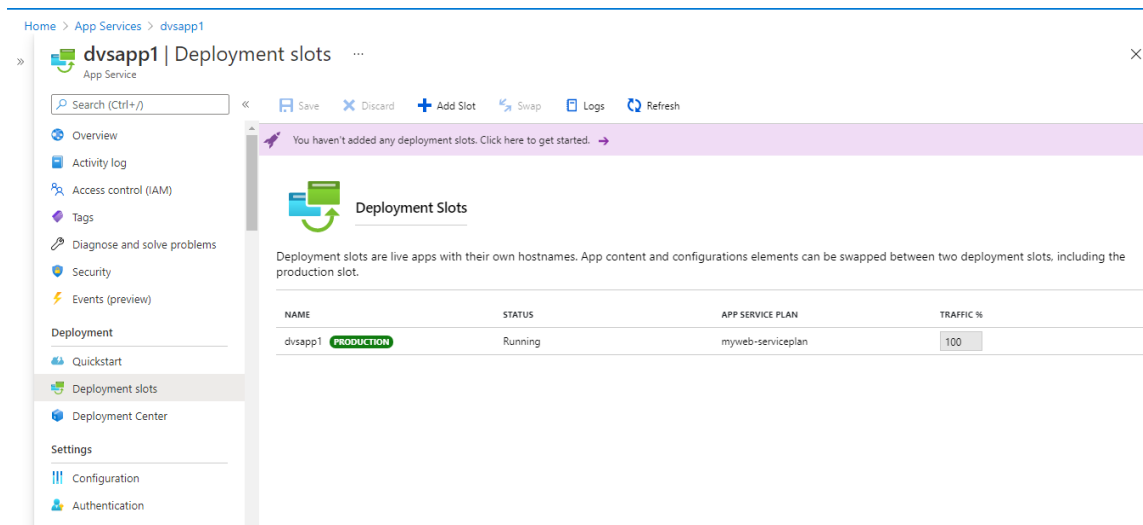
[Apply](#)

Included hardware

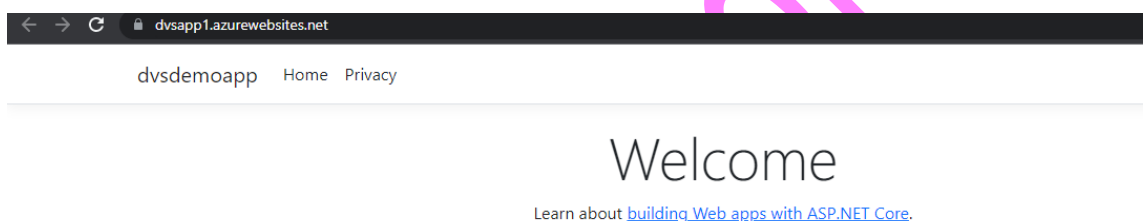
Every instance of your App Service plan will include the following hardware configuration:

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- Memory**
Memory per instance available to run applications deployed and running in the App Service plan.
- Storage**
250 GB disk storage shared by all apps deployed in the App Service plan.

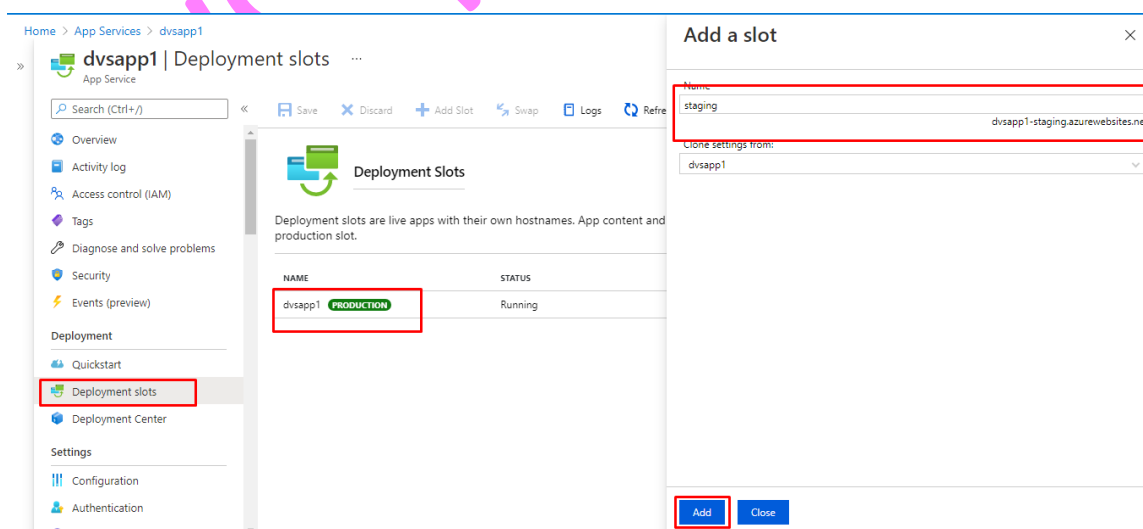
Now we can create multiple slots & host our application on diff slots & test the setup.



Before we create a new slot let's see the application



Now let's create our slot and try to push the changes to the new slot



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Home > App Services > dvsapp1

dvsapp1 | Deployment slots

App Service

Search (Ctrl+/) Save Discard Add Slot Swap Logs Refresh

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Security Events (preview) Deployment Quickstart Deployment slots Deployment Center Settings Configuration Authentication

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 %
dvsapp1 PRODUCTION	Running	myweb-serviceplan	100
dvsapp1-staging	Running	myweb-serviceplan	0

Home > App Services > dvsapp1

staging (dvsapp1/staging)

App Service (Slot)

Search (Ctrl+/) Browse Stop Swap Restart Delete Refresh Get publish profile Reset publish profile Share to mobile

Overview Activity log Access control (IAM) Tags Diagnose and solve problems Security Events (preview) Deployment Quickstart Deployment slots Deployment Center Settings Configuration Authentication

Essentials

Resource group (Move): dvs-webapp
 Status: Running
 Location: Central US
 Subscription (Move): Pay-As-You-Go
 Subscription ID: 69fc0447-bb32-4449-bce8-002d5b9938c9
 Tags (Edit): Click here to add tags

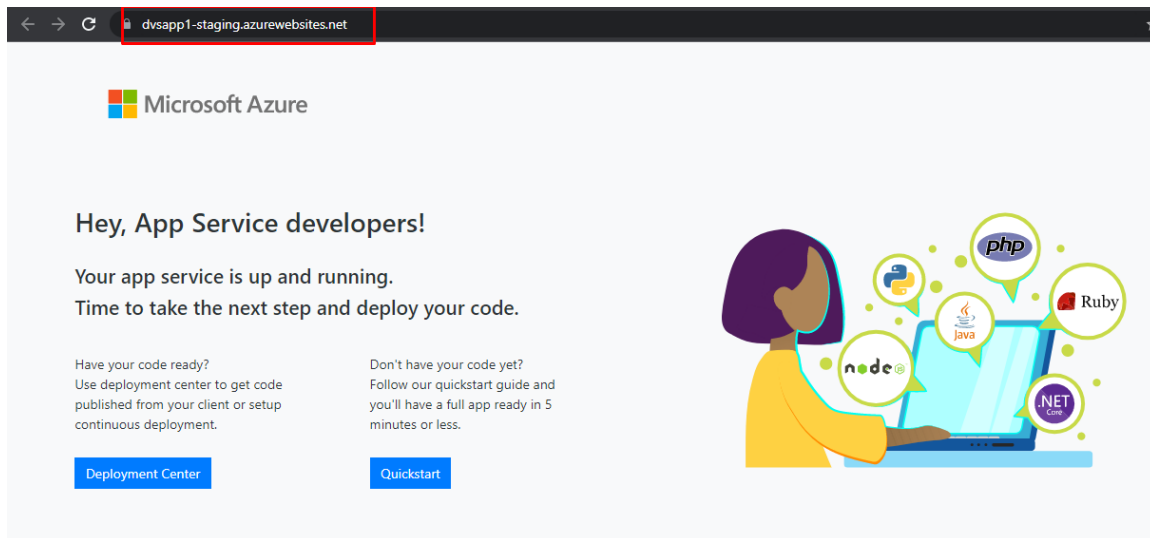
URL: <https://dvsapp1-staging.azurewebsites.net>
 App Service Plan: myweb-serviceplan (P1v2: 1)
 FTP/deployment username: No FTP/deployment user set
 FTP hostname: ftp://waws-prod-dm1-197.ft.azurewebsites.windo...
 FTPS hostname: ftps://waws-prod-dm1-197.ft.azurewebsites.windo...

Diagnose and solve problems
 Our self-service diagnostic and troubleshooting experience helps you identify and resolve issues with your web app.

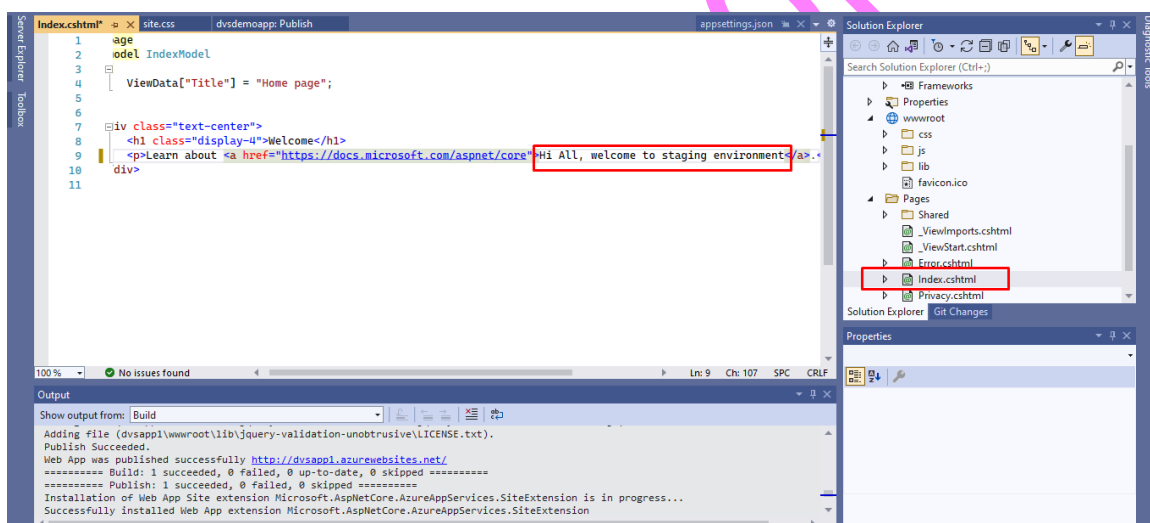
Application Insights
 Application Insights helps you detect and diagnose quality issues in your apps and helps you understand what your users actually do with it.

Http 5xx: 100 / 90
 Data In: 100B / 90B
 Data Out: 100B / 90B

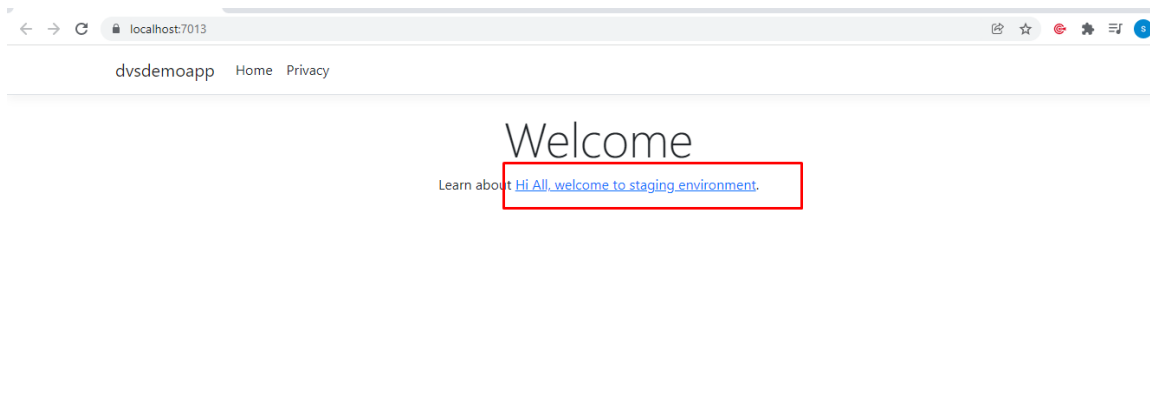
Let's check the application running before we push it



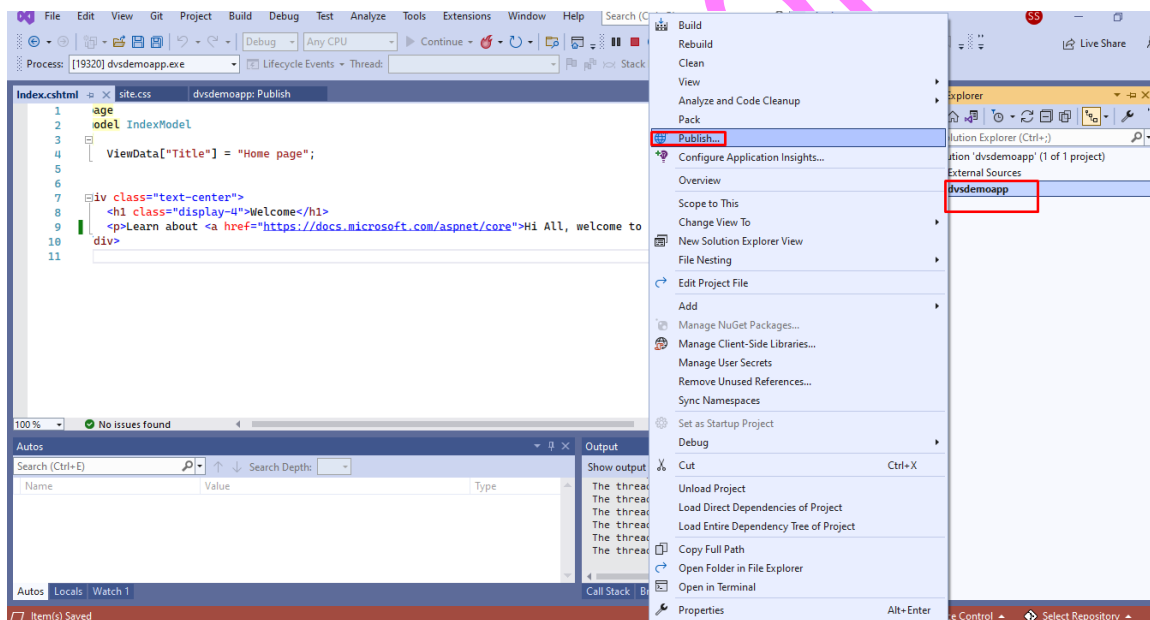
Now let's do the changes to the application code & then push it to the staging environment.

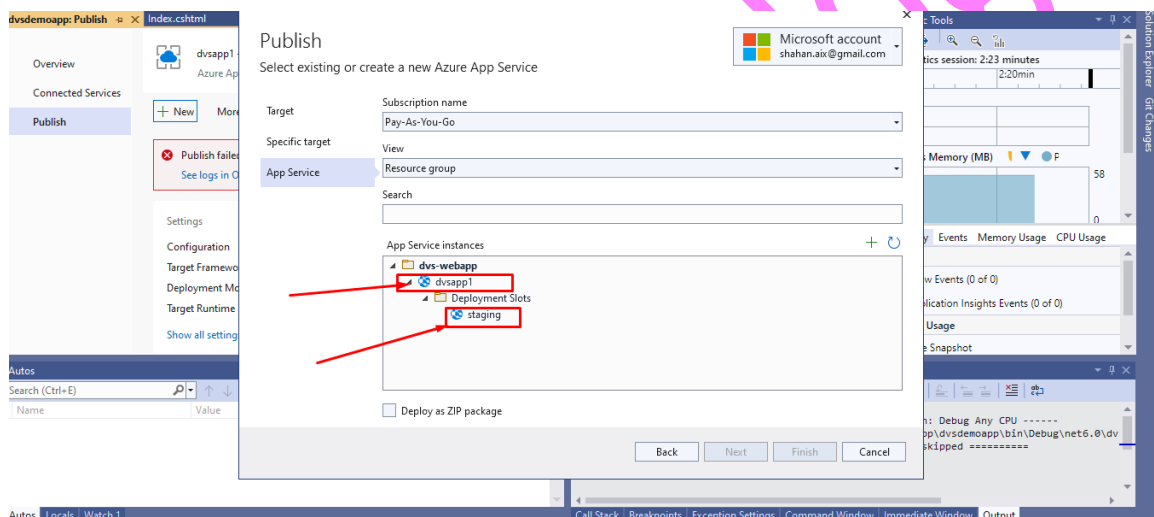
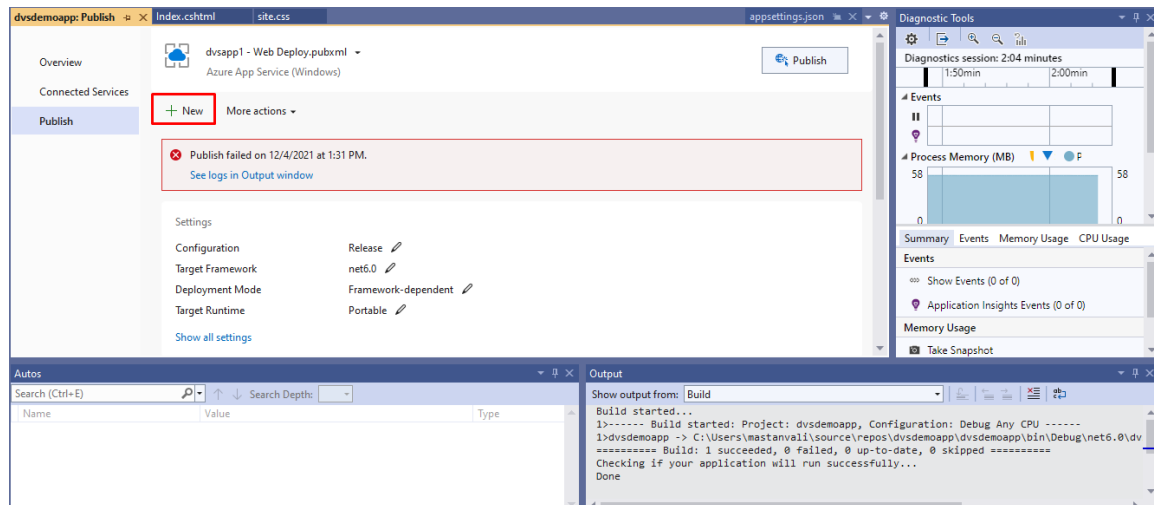


Test app locally:

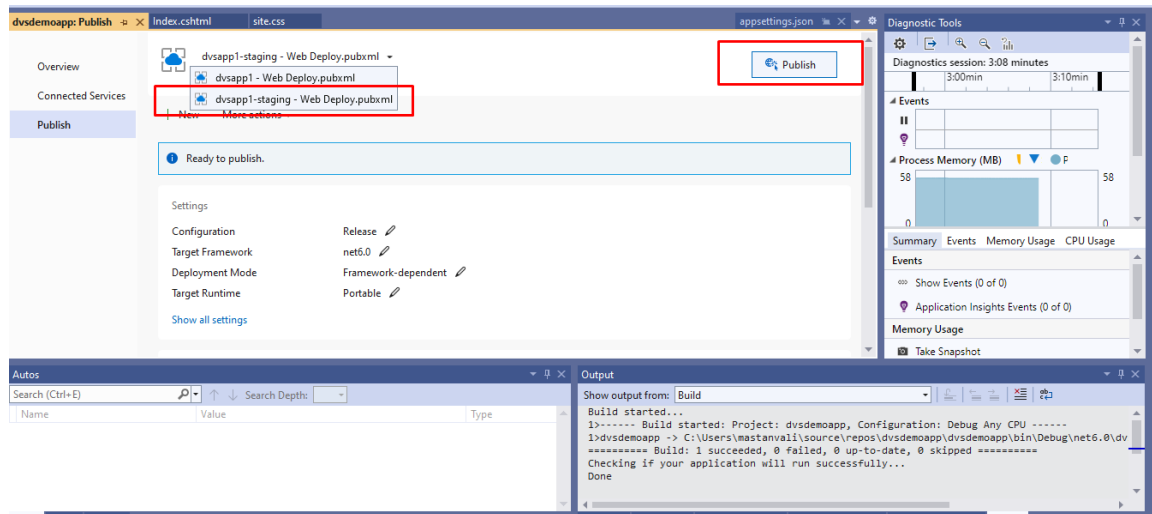


Now push the code to the webapp to staging slot.

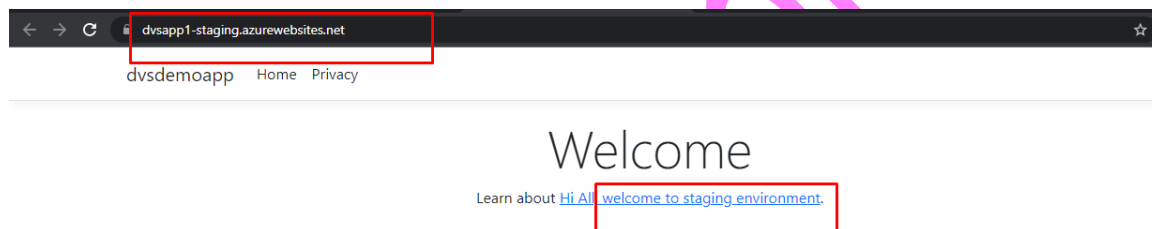




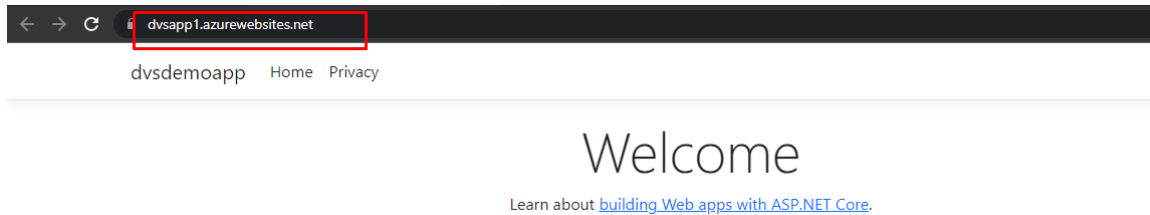
Note: Make sure that you are pushing it to staging slot.



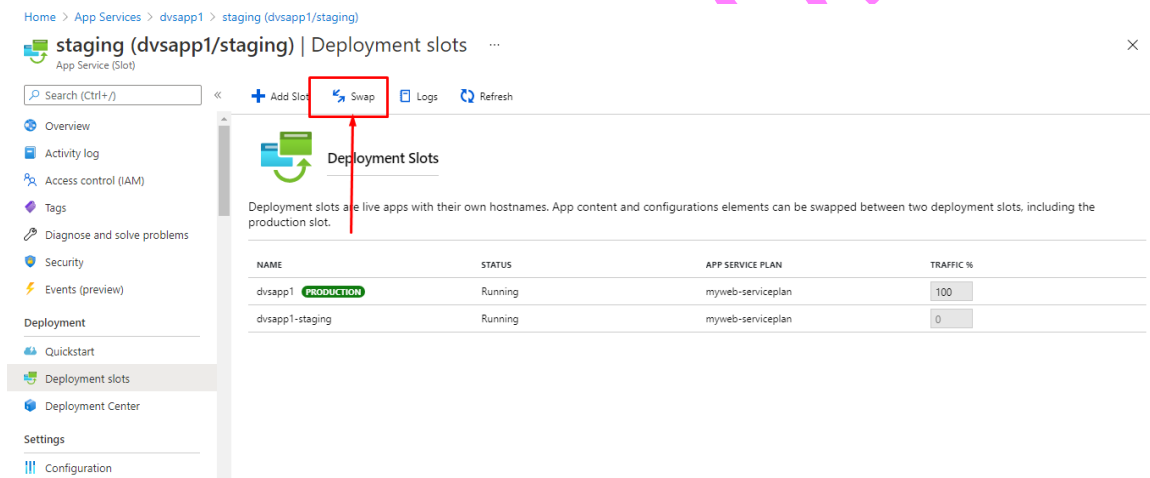
Once publish is completed then we can test our staging url.



If you see production slot then our website looks like below



Now if you feel that your staging is working good and everything works fine then you can simply swap the slots .



Home > App Services > dvsapp1 > staging (dvsapp1/staging)

staging (dvsapp1/staging) | Deployment slots

Search (Ctrl+/)

Overview
Activity log
Access control (IAM)
Tags
Diagnose and solve problems
Security
Events (preview)
Deployment
Quickstart
Deployment slots
Deployment Center
Settings
Configuration
Authentication

Deployment Slots

Deployment slots are live apps with their own hostnames. App content and configuration are swapped between the staging and production slot.

NAME	STATUS
dvsapp1 PRODUCTION	Running
dvsapp1-staging	Running

Swap

Source
dvsapp1-staging

Target **PRODUCTION**
dvsapp1

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.

SETTING	TYPE	OLD VALUE	NEW VALUE
No Changes			

Swap Close

Now let's verify the application in production slot.

dvsapp1.azurewebsites.net

dvsdemoapp Home Privacy

Welcome

Learn about [Hi All](#) [welcome to staging environment.](#)

It's a great option to do out end to end testing.

7 Web app autoscalling

Just imagine that you are deploying the application in the webapp service and this application is running on the allocated slave nodes. If in case that the load is more and if your application running on webapp service need more resources then you need to scale up the servers for your service plan other wise your application will go down.

If you want this one to automatically create the servers for your webapp service we can simply opt for autoscalling option. Using this in our service plan we can increase the server count to max value. In the same way we can reduce the server count as well.

Note: for free tier it's not possible to opt for autos calling. Only premium & standard service plans have this feature enabled.

Let's configure autoscalling for our application:

The screenshot shows the Azure portal interface for configuring an App Service plan. The breadcrumb navigation at the top reads: Home > App Services > dvsapp1 > staging (dvsapp1/staging). The main heading is "staging (dvsapp1/staging) | Scale out (App Service plan)". Below this, there are tabs for "Configure", "Run history", "JSON", "Notify", and "Diagnostic settings". The "Configure" tab is active. On the left sidebar, under "Settings", the "Scale out (App Service plan)" option is highlighted with a red box. The main content area explains that Autoscale is a built-in feature for scaling resources. Below this, under "Choose how to scale your resource", there are two options: "Manual scale" (selected with a radio button) and "Custom autoscale" (highlighted with a red box). The "Manual scale" section includes an "Override condition" field and an "Instance count" slider set to 1.

Home > App Services > dvsapp1 > staging (dvsapp1/staging)

staging (dvsapp1/staging) | Scale out (App Service plan) ...

App Service (Slot)

scal

Save Discard Refresh Logs Feedback

Settings

- Scale up (App Service plan)
- Scale out (App Service plan)**

App Service plan

- App Service plan

Autoscale setting name * myweb-serviceplan-Autoscale-299

Resource group dvs-webapp

Default* Auto created scale condition

Delete warning The very last or default recurrence rule cannot be deleted. Instead, you can disable autoscale to turn off autoscale.

Scale mode ☒ Scale based on a metric ☐ Scale to a specific instance count

Rules No metric rules defined; click Add a rule to scale out and scale in your instances based on rules. For example: Add a rule that increases instance count by 1 when CPU percentage is above 70%. If you save the setting without any rules defined, no scaling will occur.

+ Add a rule

Instance limits

Minimum	Maximum	Default
1	1	1

Schedule This scale condition is executed when none of the other scale condition(s) match

Home > App Services > dvsapp1 > staging (dvsapp1/staging)

staging (dvsapp1/staging) | Scale out (App Service plan) ...

App Service (Slot)

scal

Save Discard Refresh Logs Feedback

Settings

- Scale up (App Service plan)
- Scale out (App Service plan)**

App Service plan

- App Service plan

Resource group dvs-webapp

Default* Auto created scale condition

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+ Add a rule

Instance limits

Minimum	Maximum	Default
1	1	1

Schedule This scale condition is executed when none of the other scale condition(s) match

+ Add a scale condition

Home > App Services > dvsapp1

App Services

Default Directory

+ Create Manage view ▾ ...

Filter for any field...

Name ↑

dvsapp1 ...

dvsapp1 | Scale out (App Service plan)

App Service

Save Discard Refresh Logs Feedback

Resource group: dvs-webapp

Default Auto created scale condition

Delete warning: The very last or de off autoscale.

Scale mode: Scale based on a m

Rules: No metric rules de example: 'Add a ru save the setting wi + Add a rule

Instance limits: Minimum 1

Schedule

This scale condition is t

+ Add a scale condition

Scale rule

CpuPercentage (Average) 3.86 %

☐ Enable metric divide by instance count

Operator * Greater than Metric threshold to trigger scale action * 80

Duration (minutes) * 10

Time grain (minutes) 1 Time grain statistic * Average

Action

Operation * Increase count by Cool down (minutes) * 5

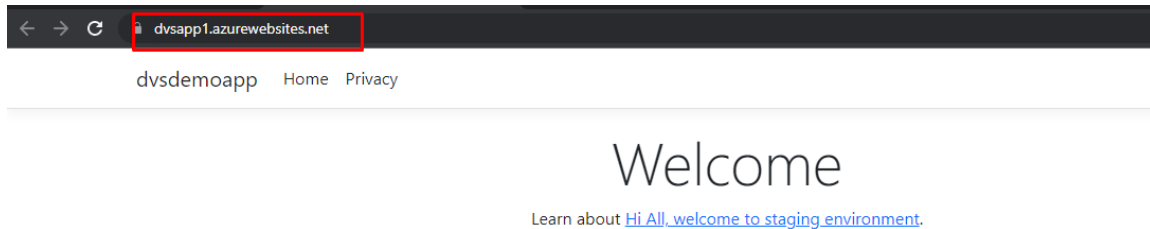
Instance count * 1

Add

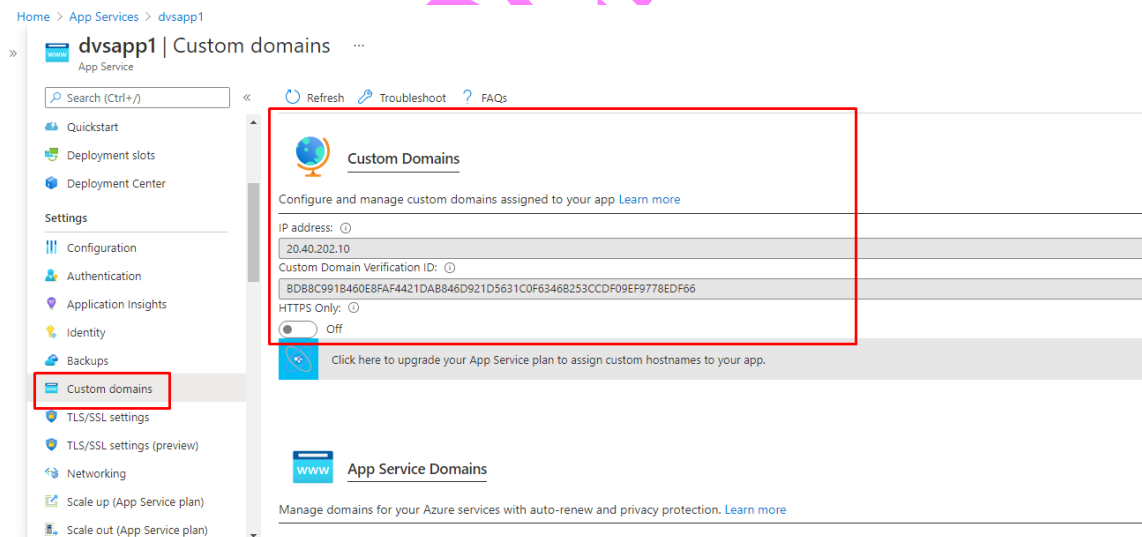
8 Azure Web App - Custom Domains

If you want to create the custom domain for your webapp then you can create it using custom domain option.

Our application domain name is



If you want to change the domain name to your own name. Let's say that we have our own domain "shaans.in" now I want to bring up my application on this page then.



Once you upgrade the plan then you can add it