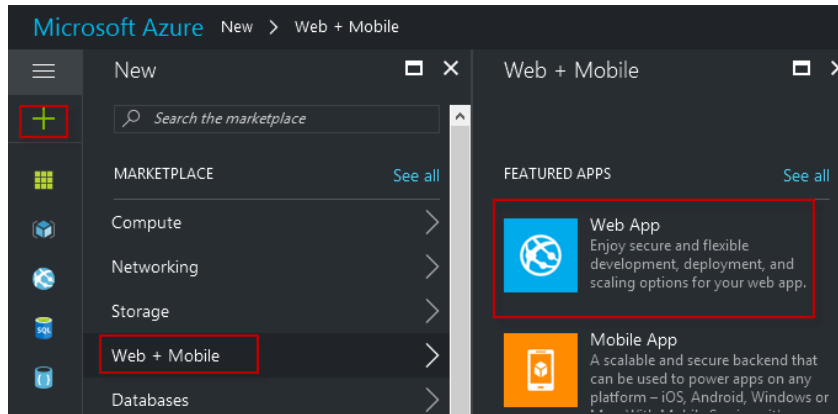


# Implement Azure WebApps

Open Azure Portal Click on New Web + Mobile and Click on Web App



## Create WebApp

The screenshot shows the 'Web App' creation form. The form includes fields for 'App name' (wiprowebappdemo1), 'Subscription' (Visual Studio Enterprise), 'Resource Group' (Create new, WIPROLABDEMO), and 'App Service plan/Location' (ServicePlan62a9aa60-9b78(Sout...)). The 'Application Insights' toggle is set to 'Off'. A 'Create' button is visible at the bottom, along with a 'Pin to dashboard' checkbox and a link to 'Automation options'.

## Create New App Service Plan

The screenshot shows the 'New App Service Plan' form. The form includes fields for 'App Service plan' (wiprowebappserplan), 'Location' (South Central US), and 'Pricing tier' (S1 Standard). A 'Create New' button is visible at the bottom left, along with a link to 'Automation options'.

## Select Pricing Tier

New App Service Plan

Create a plan for the web app

\* App Service plan

wiprowebappserplan

\* Location

South Central US

\* Pricing tier

S1 Standard

Choose your pricing tier

Browse the available plans and their features

P1 Premium	P2 Premium	P3 Premium
1 Core	2 Core	4 Core
1.75 GB RAM	3.5 GB RAM	7 GB RAM
BizTalk Services	BizTalk Services	BizTalk Services
250 GB Storage	250 GB Storage	250 GB Storage
Up to 20 instances * Subject to availability	Up to 20 instances * Subject to availability	Up to 20 instances * Subject to availability
20 slots Web app staging	20 slots Web app staging	20 slots Web app staging
50 times daily Backup	50 times daily Backup	50 times daily Backup
Traffic Manager Geo availability	Traffic Manager Geo availability	Traffic Manager Geo availability
Loading pricing...	Loading pricing...	Loading pricing...
S1 Standard	S2 Standard	S3 Standard
1 Core	2 Core	4 Core
1.75 GB RAM	3.5 GB RAM	7 GB RAM
50 GB Storage	50 GB Storage	50 GB Storage
Custom domains / SSL SNI Incl & IP SSL Support	Custom domains / SSL SNI Incl & IP SSL Support	Custom domains / SSL SNI Incl & IP SSL Support
Up to 10 instances	Up to 10 instances	Up to 10 instances

Web App

\* App name

wiprowebappdemo1

.azurewebsites.net

\* Subscription

Visual Studio Enterprise

\* Resource Group

☒ Create new ☐ Use existing

WIPROLABDEMO

\* App Service plan/Location

wiprowebappserplan(South Centr...

Application Insights

☐ On ☒ Off

☒ Pin to dashboard

Create

Automation options

wiprowebappdemo1

App Service

Search (Ctrl+/)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

APP DEPLOYMENT

Quickstart

Browse

Stop

Swap

Restart

Delete

Get publish profile

Reset publish profile

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

Essentials

Resource group (change)  
WIPROLABDEMO

Status  
Running

Location  
South Central US

Subscription name (change)  
Visual Studio Enterprise

Subscription ID  
f10f0a40-d700-484f-b176-b7eb2df935db

URL

URL  
http://wiprowebappdemo1.azurewebsites.net

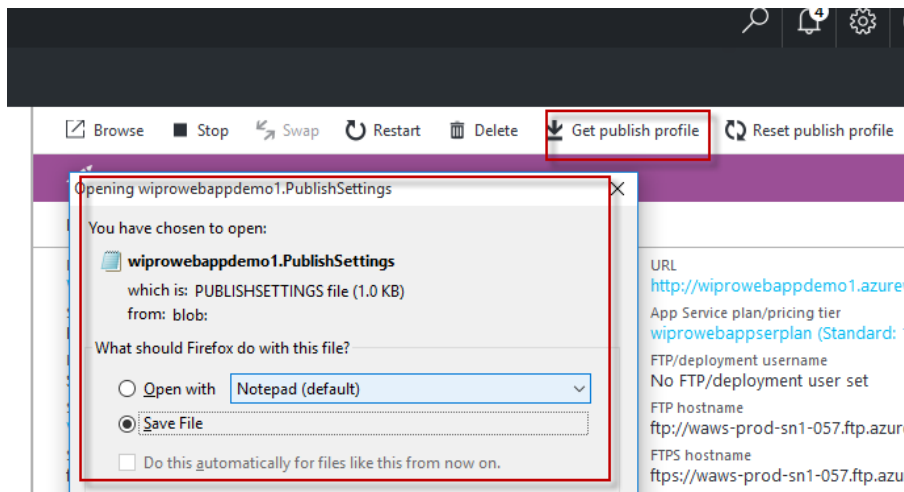
App Service plan/pricing tier  
wiprowebappserplan (Standard: 1 Small)

FTP/deployment username  
No FTP/deployment user set

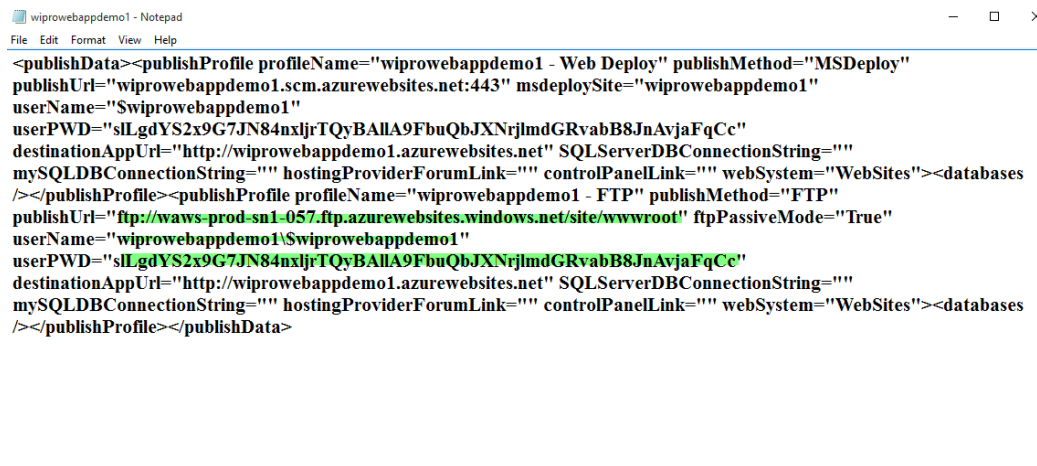
FTP hostname  
ftp://waws-prod-sn1-057.ft.azurewebsites.windows.net

FTPS hostname  
ftps://waws-prod-sn1-057.ft.azurewebsites.windows.net

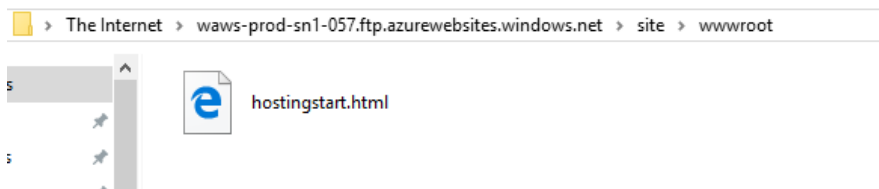
## Download Publish Profile



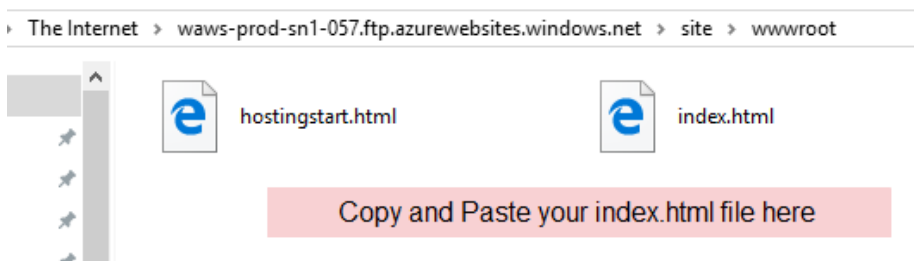
Copy Credentials to access wwwroot of your webapp



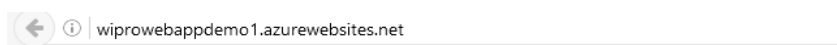
Use File Explorer to access wwwroot



Create index.html page in local machine and copy and paste html file in File Explorer

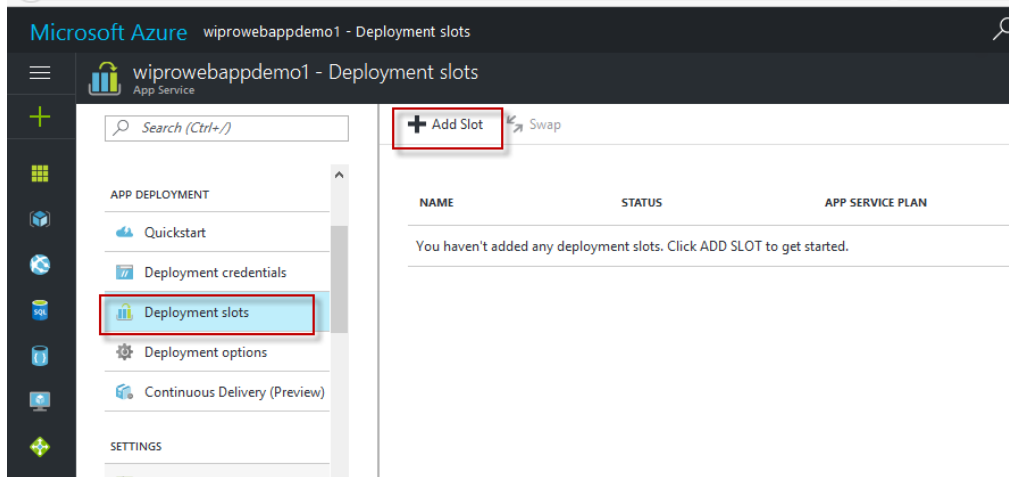


WebApp Published

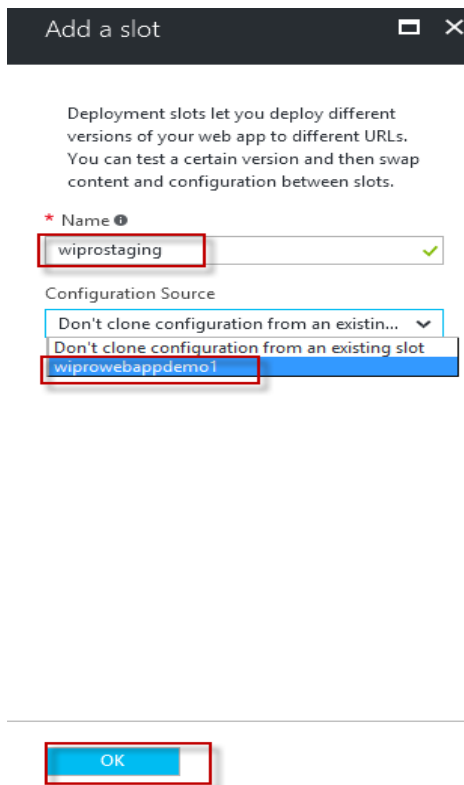


**Hello Friends! Welcome to Azure WebApps**

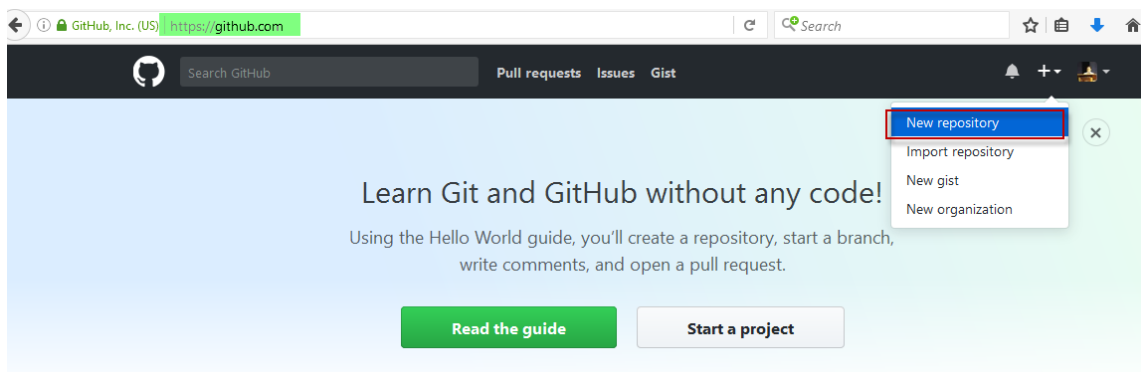
## Now Add One Deployment Slot



## Add a Slot Name



## Now Open github.com (Create your Account FREE) and Login than Click on New Repository



## Create a new repository

A repository contains all the files for your project, including the revision history.

Owner

prabhjotsinghbakshi

Repository name

wiprodemo

Great repository names are short and memorable. Need inspiration? How about [symmetrical-happiness](#).

Description (optional)

☒ Public

Anyone can see this repository. You choose who can commit.

☐ Private

You choose who can see and commit to this repository.

☒ Initialize this repository with a README

This will let you immediately clone the repository to your computer. Skip this step if you're importing an existing repository.

Add .gitignore: None

Add a license: None

Create repository

Then Create wiprodemo repository and Click on Upload Files Button shown below

The screenshot shows the GitHub repository page for 'wiprodemo' by 'suketunayak'. The repository is public and has 4 commits, 1 branch, 0 releases, and 1 contributor. The 'Upload files' button is highlighted with a red box. Below the repository name, there is a list of files: 'index.html', 'README.md', and 'README.md'. The 'index.html' file is highlighted with a red box. The repository name 'wiprodemo' is also highlighted with a red box.

Now edit that index.html page to version 1.0 in local machine and upload here in github (Upload using Drag and Drop) -> Click on Commit Changes

Drag additional files here to add them to your repository  
Or [choose your files](#)

index.html

**Commit changes**

Add files via upload

Add an optional extended description...

☒ Commit directly to the `master` branch.

☐ Create a **new branch** for this commit and start a pull request. [Learn more about pull requests.](#)

**Commit changes** Cancel

Now you have two webapps one main webapp and one staging slot webapp

Resource groups

WIPROLABDEMO

Overview

Activity log

Access control (IAM)

Tags

SETTINGS

Quickstart

Resource costs

Deployments

Properties

Locks

Automation script

Essentials

Subscription name (change)  
Visual Studio Enterprise

Subscription ID  
f10f0a40-d700-484f-b176-b7eb2df935db

Deployments  
1 Succeeded

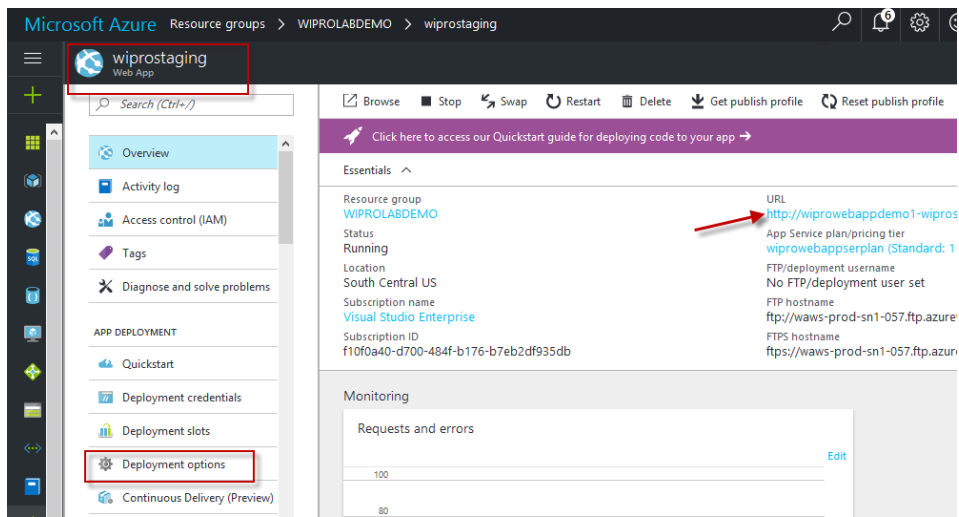
Location  
South Central US

Filter by name...

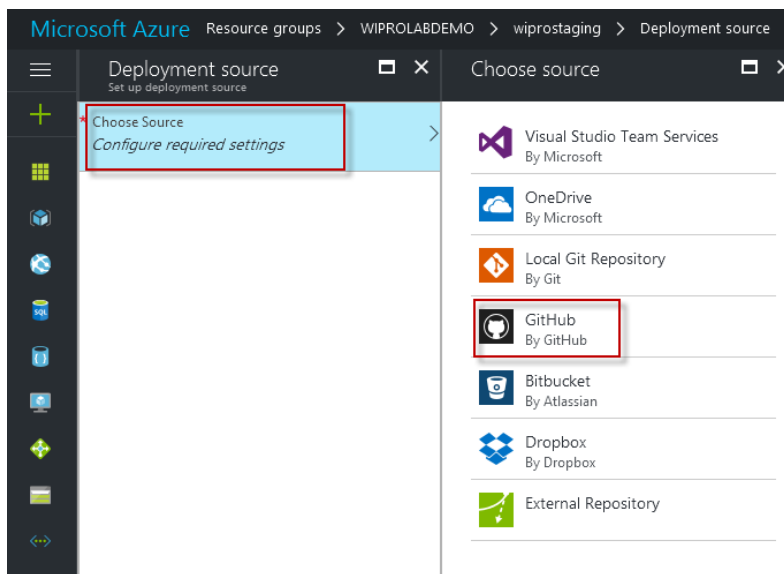
NAME	TYPE	LOCATION
wiprowebappdemo1	App Service	South Central US
wiprostaging	Web App	South Central US
wiprowebappserplan	App Service plan	South Central US

Staging Slot

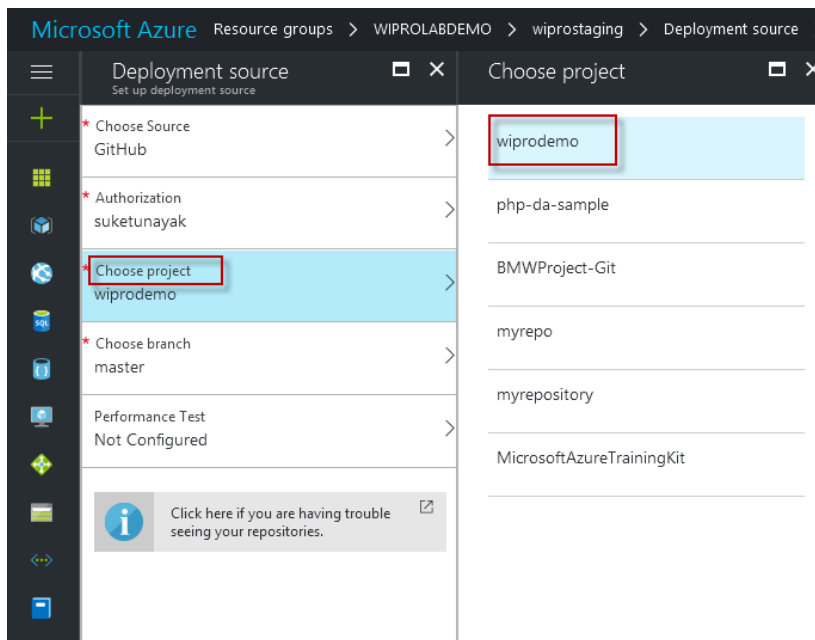
Now Click on wiprostaging (Staging Web App) -> Click on Deployment Options in menu



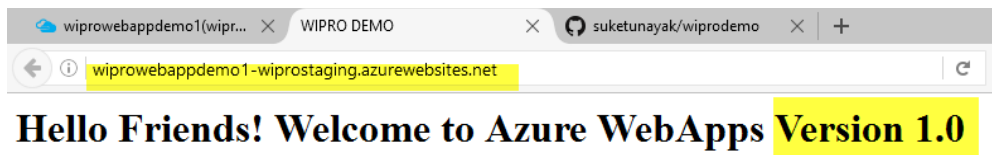
Below is list of Deployment Options, Choose Github (Sign in with your github credentials)



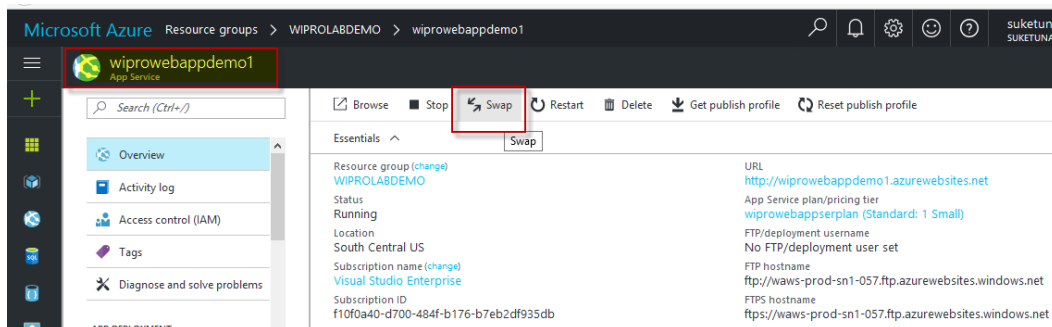
Than Choose Project wiprodemo



Now Click on staging URL and see Version 1.0 is ready in staging slot

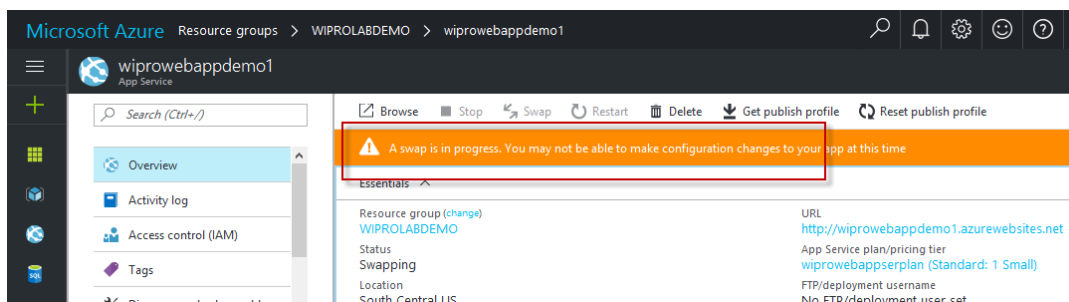
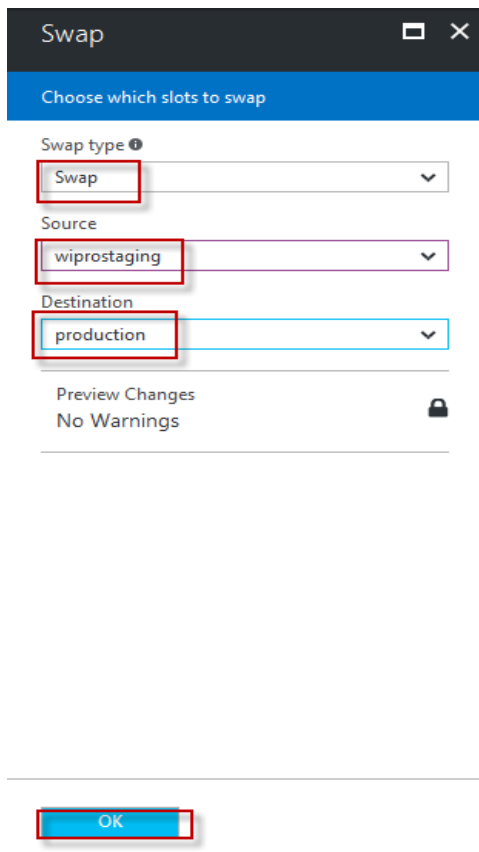


Now Click on Main WebApp and Click on Overview and Click on SWAP Button

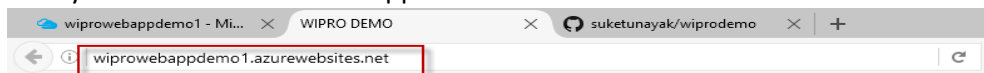


As we know Version 1.0 of our webapp is in staging slot we want to swap it on Production so select Source and Destination (Production – Main Webapp).

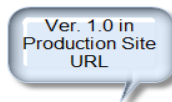




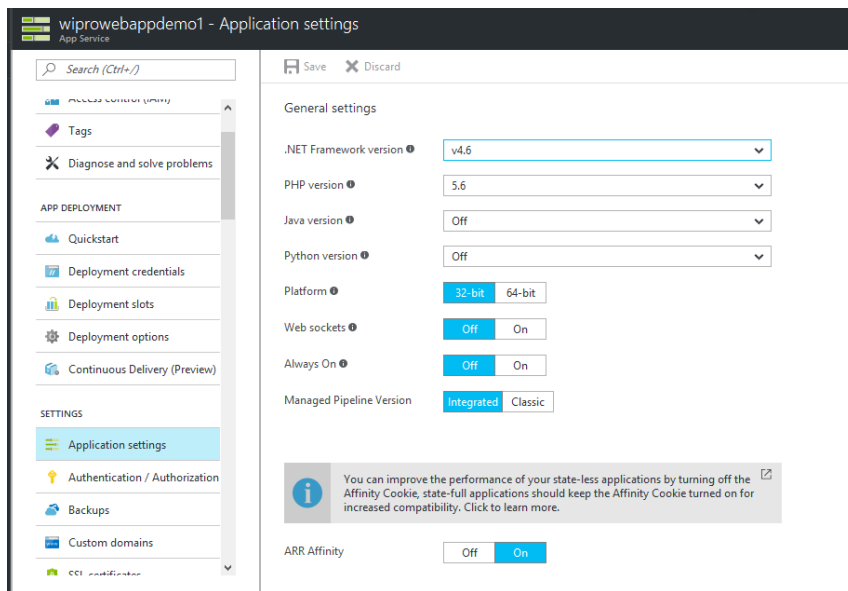
Now you can check Main WebApp URL Version 1.0 is Launched in Production



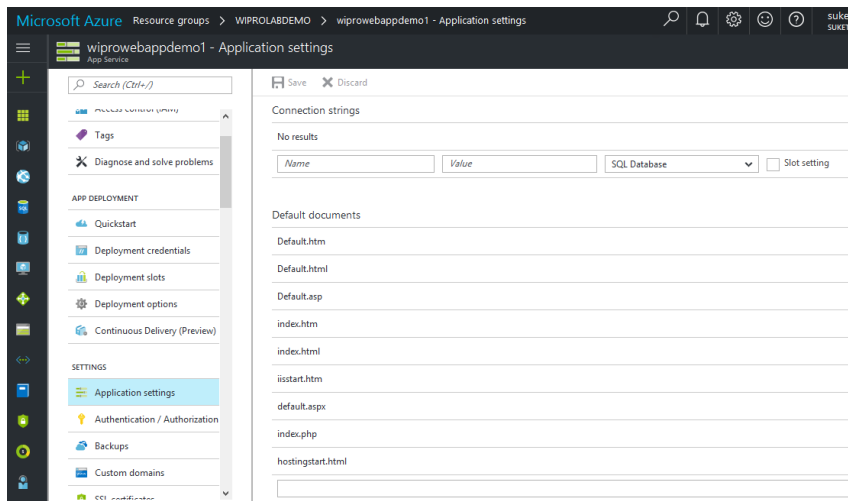
**Hello Friends! Welcome to Azure WebApps Version 1.0**



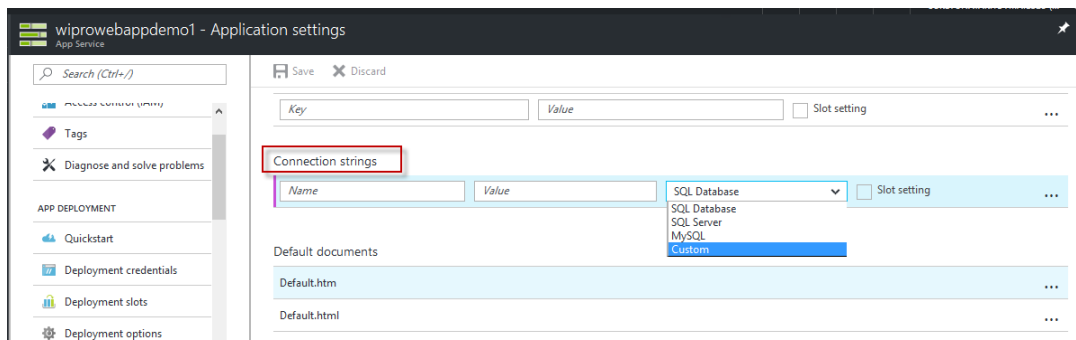
Now in below option Application Settings you can select multiple language platform accordingly your language of web application.



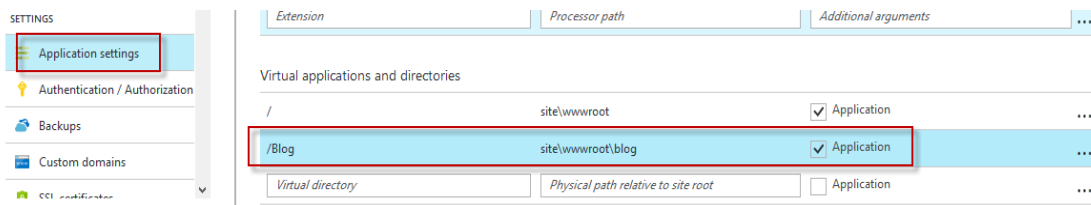
In same option Application Settings you will find Default Documents (Home Page), Here you can set your custom page as a start up page.



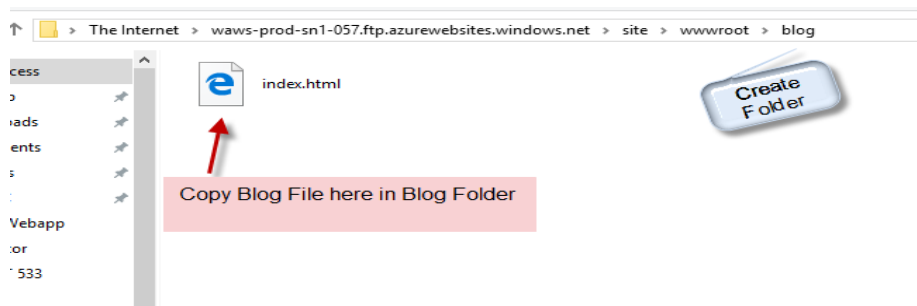
In Connection Strings option also you can pre define your connection strings of SQL Database, SQL Server, MySQL or custom of your application.



In Same option page we can also configure Virtual Applications and Virtual Directories, Like we added Blog Directory in wwwroot folder and click on Check Box Application.



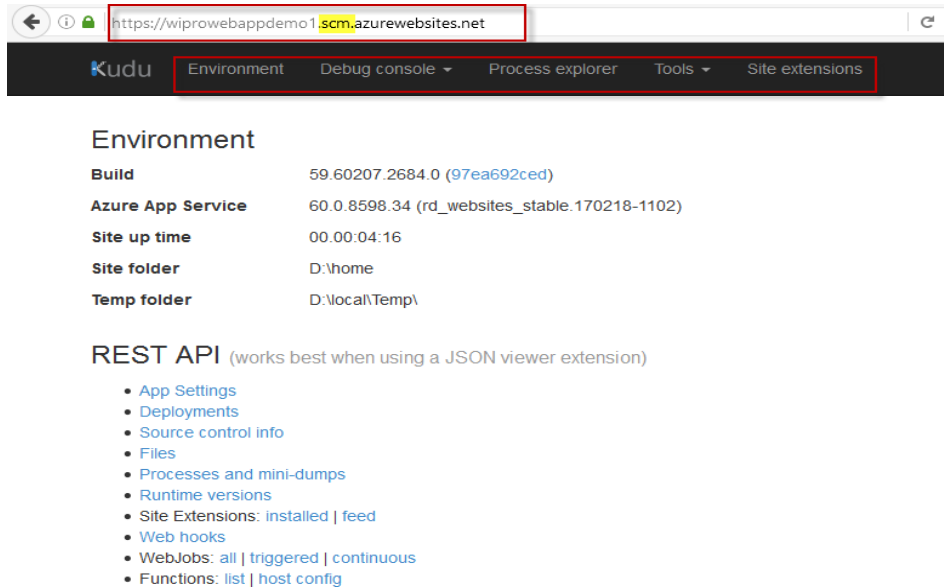
Now Create one sample index.html file like Hello Blog File and Once again Open Publish Setting File and access wwwroot folder -> Inside wwwroot create blog folder and paste index.html page in File Explorer.



Open WebApp URL and append /Blog and Click Go in Browser your Blog Page will be available in Browser.



Advanced Tools (Kudu) - you need to add .scm. in between your webapp URL (In Same Browser) and Kudu will be loaded of your webapp.



The screenshot shows the Kudu web interface in a browser. The address bar displays `https://wiprowebappdemo1.scm.azurewebsites.net`. The navigation bar includes links for Environment, Debug console, Process explorer, Tools, and Site extensions. The main content area is titled "Environment" and lists the following details:

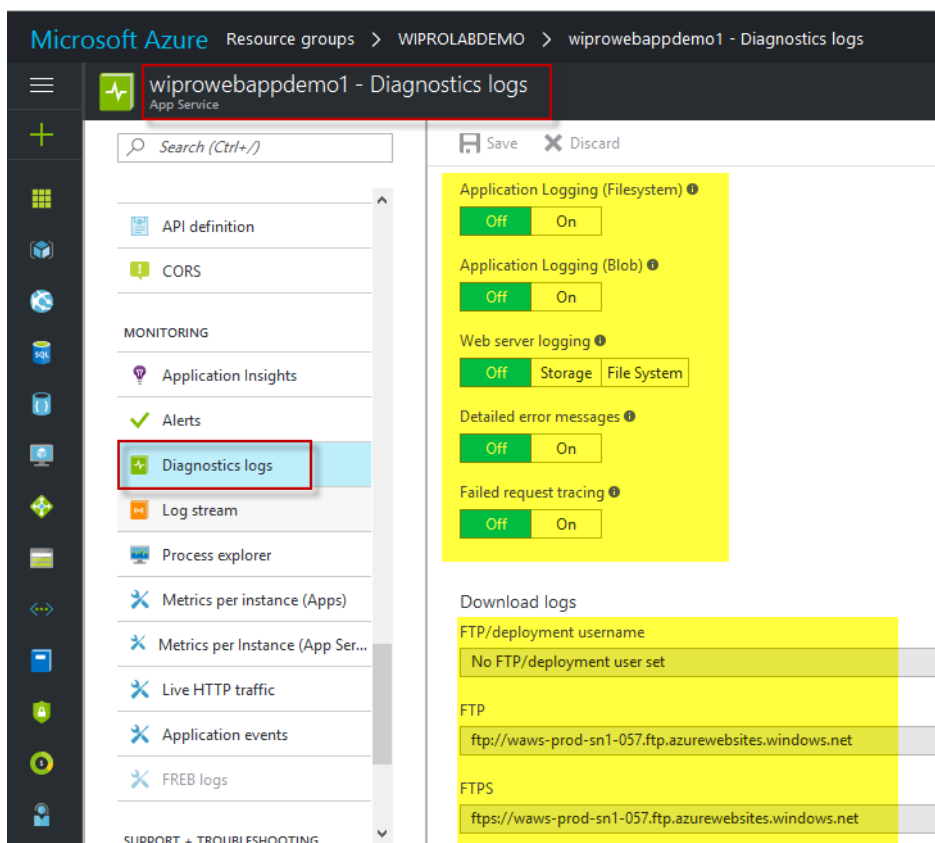
- Build:** 59.60207.2684.0 (97ea692ced)
- Azure App Service:** 60.0.8598.34 (rd\_websites\_stable.170218-1102)
- Site up time:** 00:00:04:16
- Site folder:** D:\home
- Temp folder:** D:\local\Temp\

Below the environment details is the "REST API" section, which includes a list of links:

- App Settings
- Deployments
- Source control info
- Files
- Processes and mini-dumps
- Runtime versions
- Site Extensions: installed | feed
- Web hooks
- WebJobs: all | triggered | continuous
- Functions: list | host config

More information about Kudu can be found on the [wiki](#).

For Diagnostics and Logging of your WebApp Click on Diagnostics Logs Menu and You can Select ON and OFF for various types of Logs



The screenshot shows the Microsoft Azure portal interface for configuring diagnostics logs for a web application. The breadcrumb navigation shows "Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Diagnostics logs". The left sidebar lists various monitoring options, with "Diagnostics logs" highlighted. The main content area displays the configuration for "wiprowebappdemo1 - Diagnostics logs".

The configuration options are as follows:

- Application Logging (Filesystem):** Off (selected) / On
- Application Logging (Blob):** Off (selected) / On
- Web server logging:** Off (selected) / Storage / File System
- Detailed error messages:** Off (selected) / On
- Failed request tracing:** Off (selected) / On

Below the configuration options is the "Download logs" section, which lists the following paths:

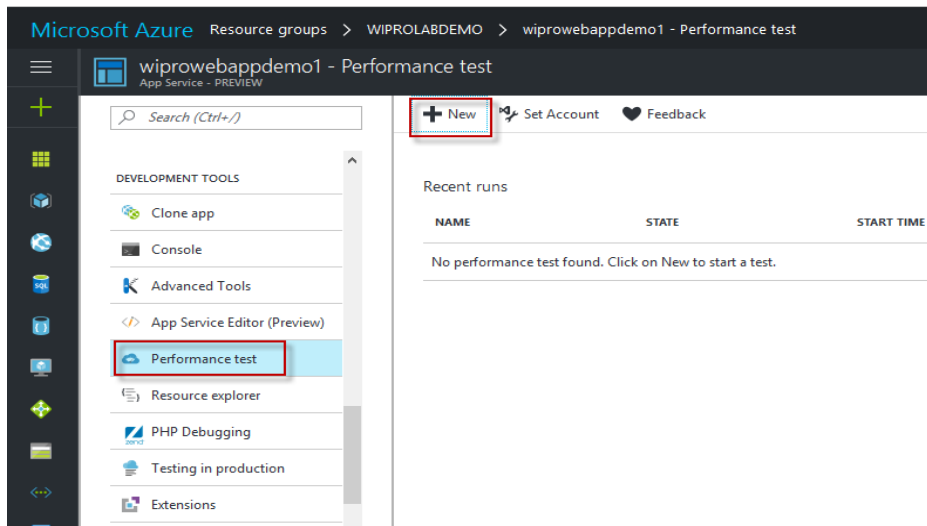
- FTP/deployment username: No FTP/deployment user set
- FTP: ftp://waws-prod-sn1-057.ftp.azurewebsites.windows.net
- FTPS: ftps://waws-prod-sn1-057.ftp.azurewebsites.windows.net

Below is Auto generated Paths of Log Files

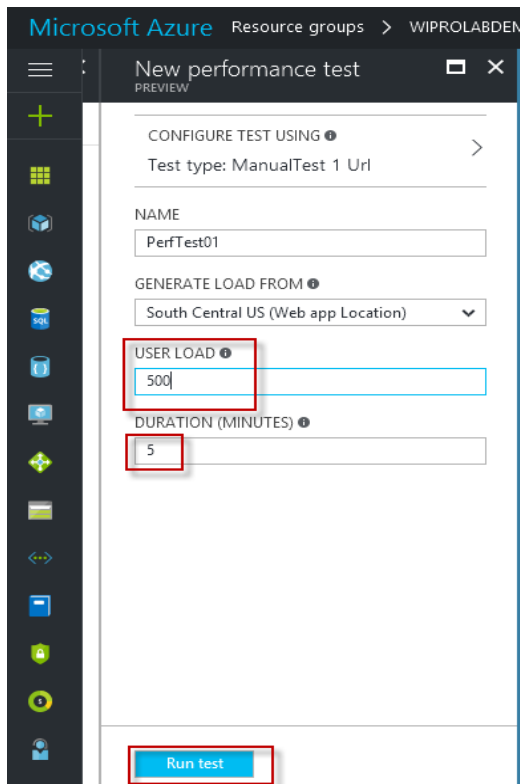
**TABLE 1-5** Diagnostic log file locations on the file system for an Azure website

LOG FILE TYPE	LOCATION
Application Diagnostics	D:\Home\LogFiles\Application\
SITE DIAGNOSTICS (WEB SERVER)	D:\HOME\LOGFILES\HTTP\RAWLOGS\
Site Diagnostics (Detailed Errors)	D:\Home\LogFiles\DetailedErrors\
SITE DIAGNOSTICS (FAILED REQUEST TRACES)	D:\HOME\LOGFILES\W3SVC<RANDOM#>\

For Performance Test click on Performance Test Menu and Click on New and Create New Performance Test for your WebApp.



You can set User Load and Duration for Performance Test of your WebApp



After 15 Minutes You can check results

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Performance test

wiprowebappdemo1 - Performance test  
App Service - PREVIEW

Search (Ctrl+.)

DEVELOPMENT TOOLS

- Clone app
- Console
- Advanced Tools
- App Service Editor (Preview)
- Performance test

Recent runs

NAME	STATE	START TIME	AVG RESP TIME (SEC)	TARGET LOAD
PerfTest01	Queued	04/03/2017, 15:09	-	500

And you can check performance matrices and charts of your webapp

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Performance test > PerfTest01

PerfTest01  
PERFORMANCE TEST - PREVIEW

Abort Rerun

In Progress 50%

http://wiprowebappdemo1.azurewebsites.net

STATE: InProgress

USER LOAD: 500 concurrent users

South Central US

DURATION (MINUTES): 5 minutes

VSTS ACCOUNT: https://c1f82cf8eb-93ea-443a-be9e-6c60fd5a995f.visualstudio.com

Details

Requests

SUCCESSFUL 47179 (100 %)

FAILED 0 (0 %)

Messages

Info 4

Performance under load

AVG RESP TIME (SEC) 0.23

USER LOAD 500

REQ/SEC 393.16

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Performance test > PerfTest01

PerfTest01  
PERFORMANCE TEST - PREVIEW

Abort Rerun

In Progress 56%

Web App Usage

CPU Time and Memory working set past hour

CPU TIME 7.95

MEMORY WORKING SET 764.66 M

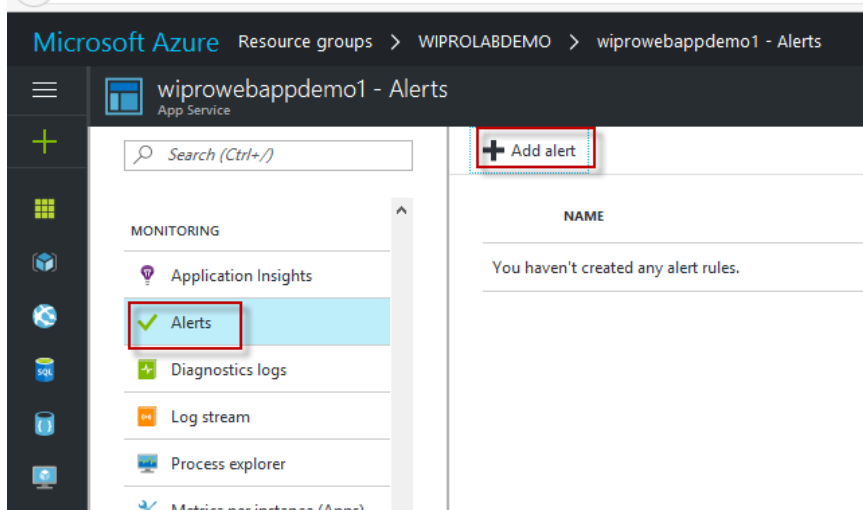
App Service Plan

Scale WIPROWEBAPPSERPLAN

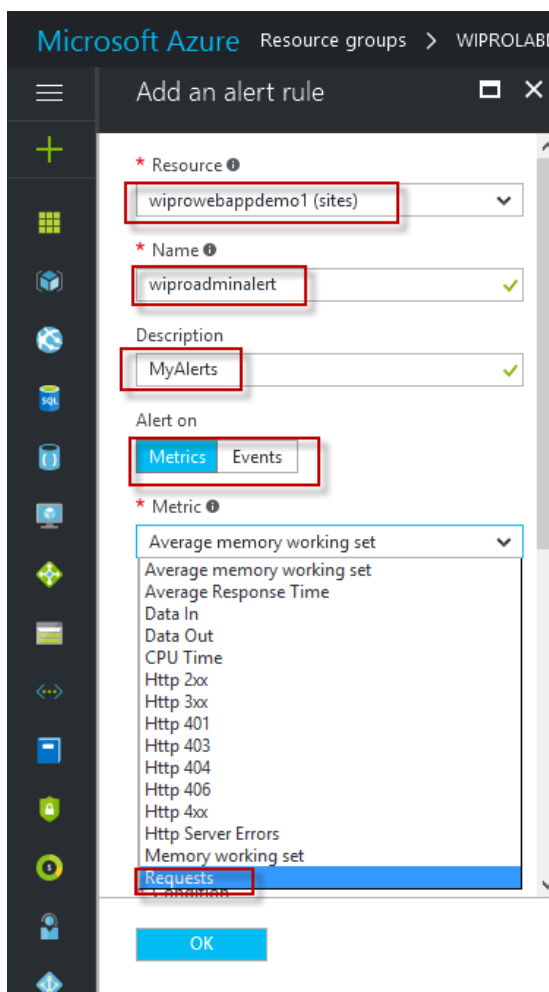
Autoscale Off

wiprowebappserplan SOUTH CENTRAL US

Now we can create Alerts for WebApp



Add Alert Details, We have two options Metrics or Events, I Selected Metrics



Set Condition, Threshold, Period and also given Email ID for receiving alerts.

Microsoft Azure Resource groups > WIPROLABDEMO

Add an alert rule

300  
200  
100  
0

18 4 Mar 06 12

\* Condition  
greater than

\* Threshold ⓘ  
500 ✓  
count

\* Period ⓘ  
Over the last 5 minutes

Email owners, contributors, and readers  
☐

Additional administrator email(s)  
suketunayak@gmail.com

Webhook ⓘ  
HTTP or HTTPS endpoint to route alerts to  
[Learn more about configuring webhooks](#)

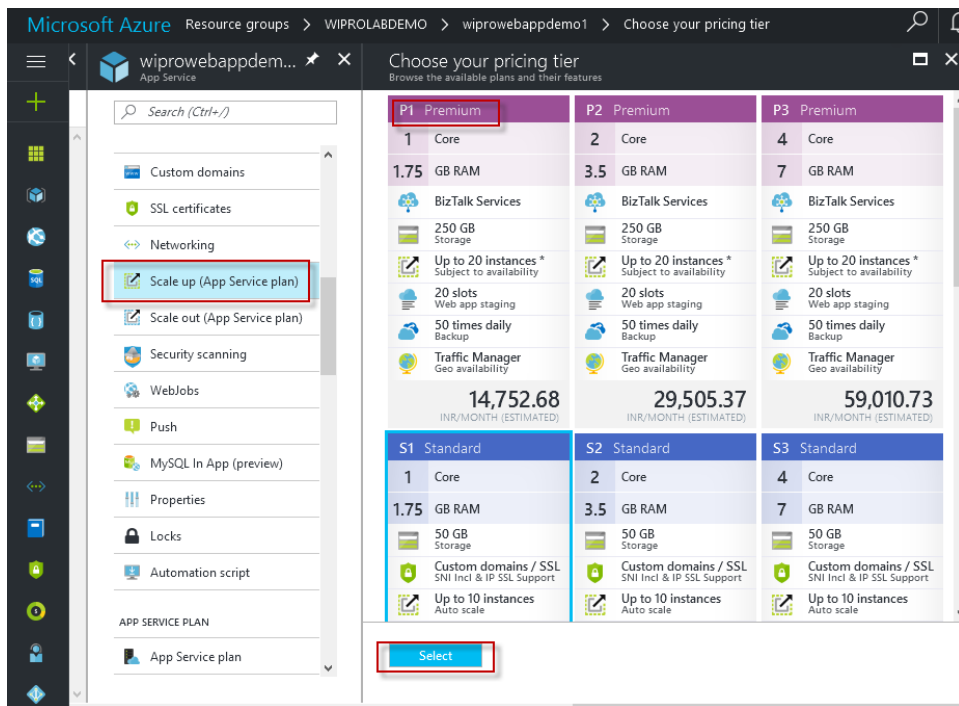
OK

## Meanings of Metrics

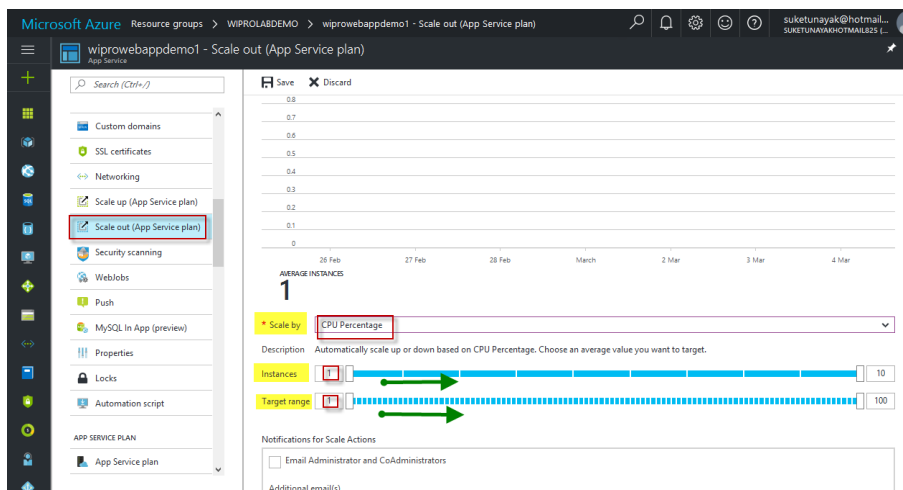
- **CPUTime** A measure of the website's CPU usage.
- **Requests** A count of client requests to the website.
- **Data Out** A measure of data sent by the website to clients.
- **Data In** A measure of data received by the website from clients.
- **HTTP Client Errors** Number of HTTP 4xx Client Error messages sent.
- **HTTP Server Errors** Number of HTTP 5xx Server Error messages sent.
- **HTTP Successes** Number of HTTP 2xx Success messages sent.
- **HTTP Redirects** Number of HTTP 3xx Redirection messages sent.
- **HTTP 401 Errors** Number of HTTP 401 Unauthorized messages sent.
- **HTTP 403 Errors** Number of HTTP 403 Forbidden messages sent.
- **HTTP 404 Errors** Number of HTTP 404 Not Found messages sent.
- **HTTP 406 Errors** Number of HTTP 406 Not Acceptable messages sent.

To Change Application Service Plan Click on Scale Up and we can scale up.





For Scale Out we can click on that option and Select Scale By Option and also set max. instance and Target Range



For SSL Certificate Click on that Menu and If you purchase SSL Certificate from Godaddy or Bigrock.com than you can import certificate here and add binding with you webapp. So your WebApp will be in https:// and SSI Secured.

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - SSL certificates

Search (Ctrl+/)

Application settings

Authentication / Authorization

Backups

Custom domains

**SSL certificates**

Networking

Scale up (App Service plan)

Scale out (App Service plan)

Security scanning

Webjobs

Push

MySQL In App (preview)

Properties

Locks

Automation script

**SSL**

Certificates must be associated with your application before you can use them to create a binding. You can upload a certificate you purchased externally, or import an App Service Certificate.

Import App Service Certificate Upload Certificate

You have no certificates. Upload a certificate now to get started.

SSL bindings

+ Add binding

HOST NAME	CERTIFICATE	SSL TYPE
No results		