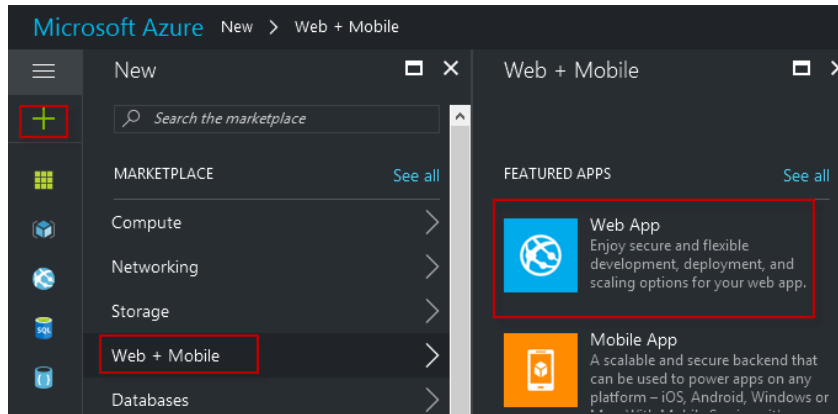


Implement Azure WebApps

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



Create WebApp

Web App

* App name
wiprowebappdemo1 .azurewebsites.net

* Subscription
Visual Studio Enterprise

* Resource Group
☒ Create new ☐ Use existing
WIPROLABDEMO

* App Service plan/Location
ServicePlan62a9aa60-9b78(Sout... >

Application Insights ☐ On ☒ Off

☐ Pin to dashboard

Create Automation options

Create New App Service Plan

App Service plan
Select a plan for the web app

An App Service plan is the container for your app. The App Service plan settings will determine the location, features, cost and compute resources associated with your app.

+ Create New

ServicePlan62a9aa60-9b78(S1) (New)
South Central US New Plan

New App Service Plan
Create a plan for the web app

* App Service plan
wiprowebappserplan

* Location
South Central US

* Pricing tier
S1 Standard >

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	20 slots	20 slots
Web app staging	Web app staging	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

http://wiprowebappdemo1.azurewebsites.net

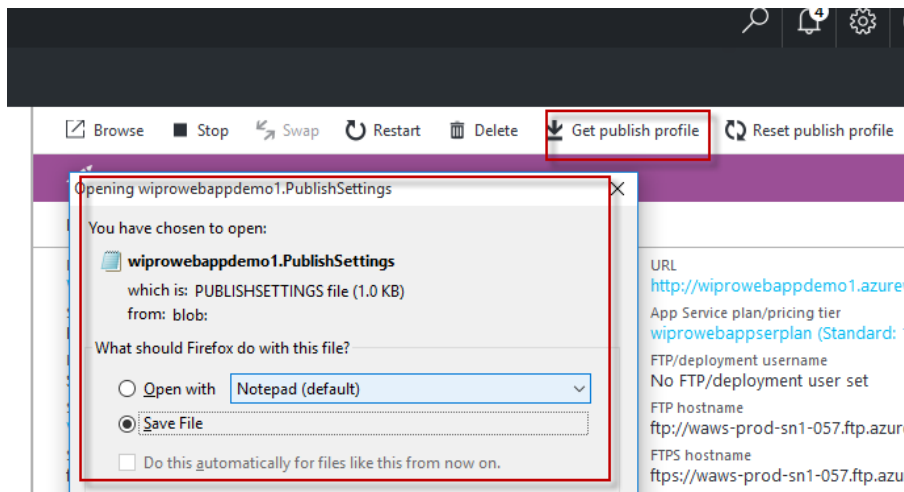
App Service plan/pricing tier
wiprowebappserplan (Standard: 1 Small)

FTP/deployment username
No FTP/deployment user set

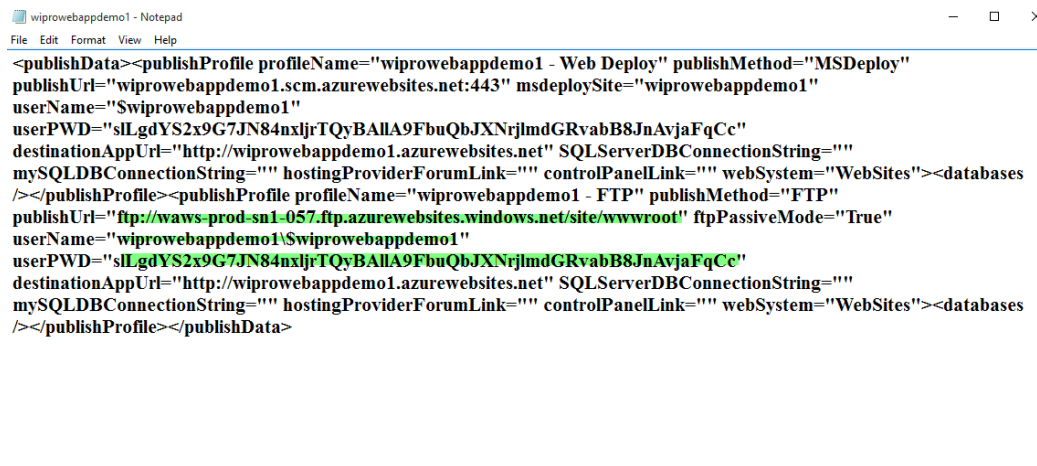
FTP hostname
ftp://waws-prod-sn1-057.ftp.azurewebsites.windows.net

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

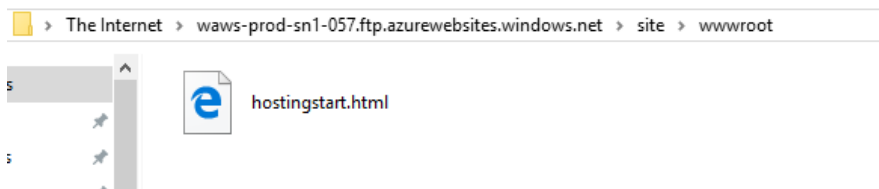
Download Publish Profile



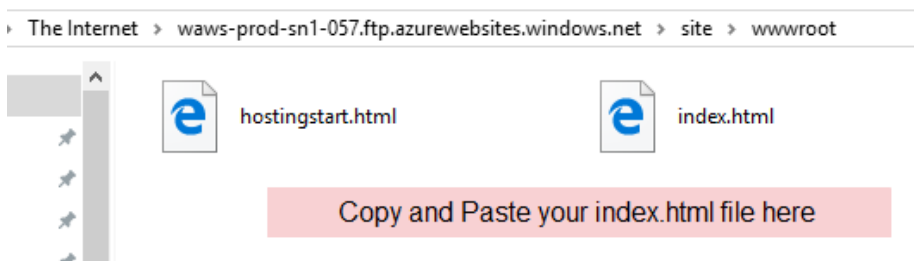
Copy Credentials to access wwwroot of your webapp



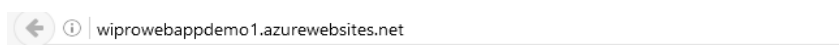
Use File Explorer to access wwwroot



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

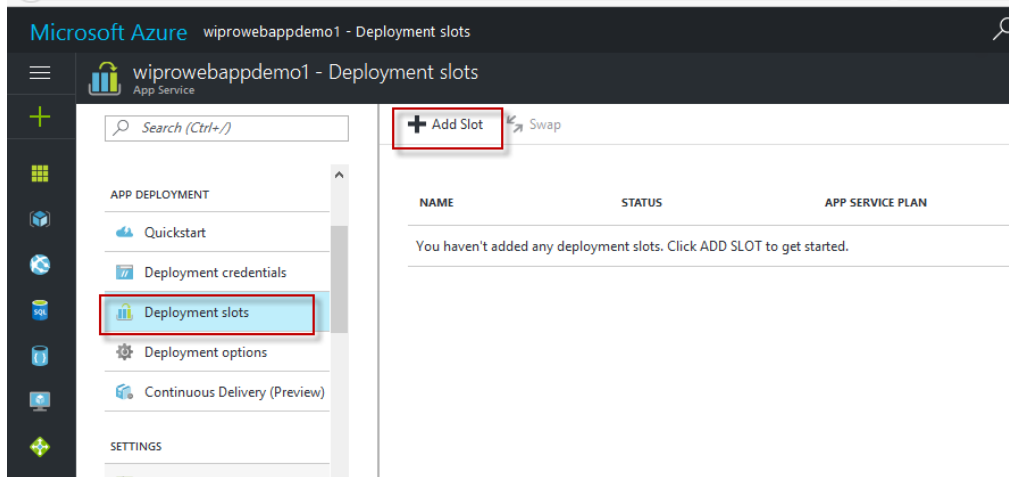


WebApp Published

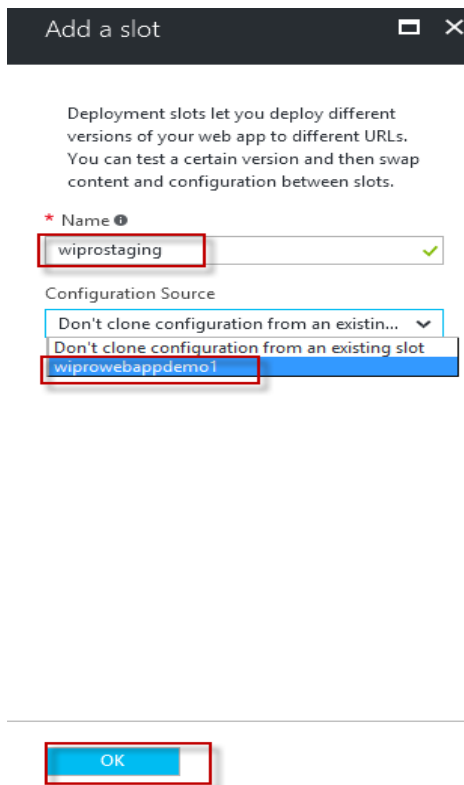


Hello Friends! Welcome to Azure WebApps

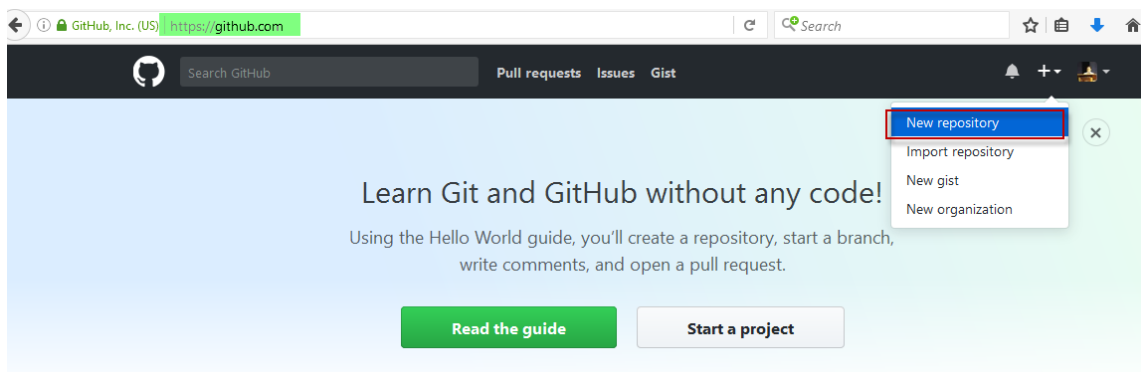
Now Add One Deployment Slot



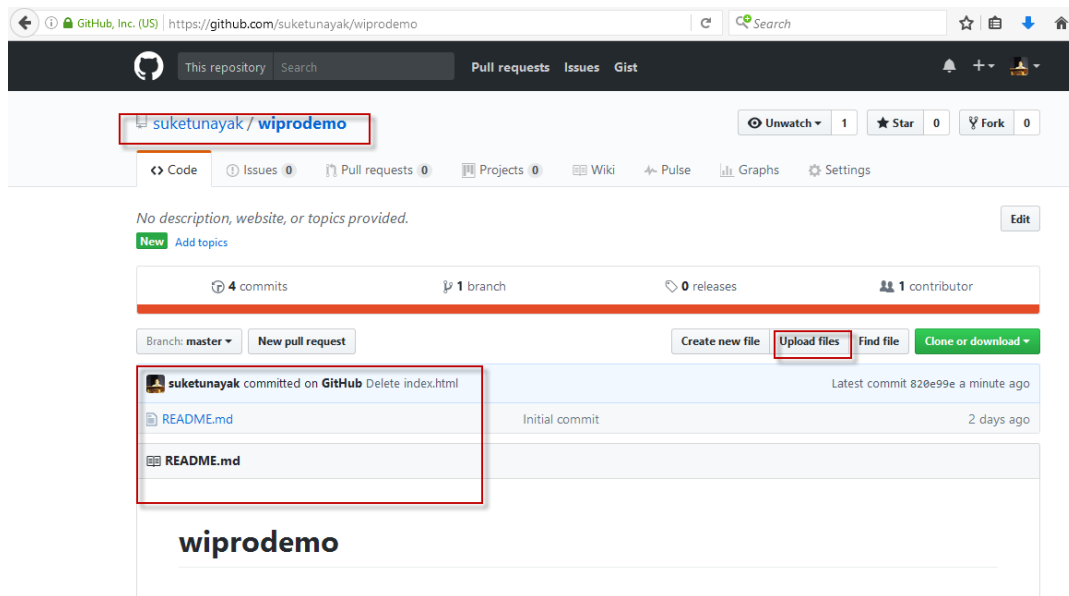
Add a Slot Name



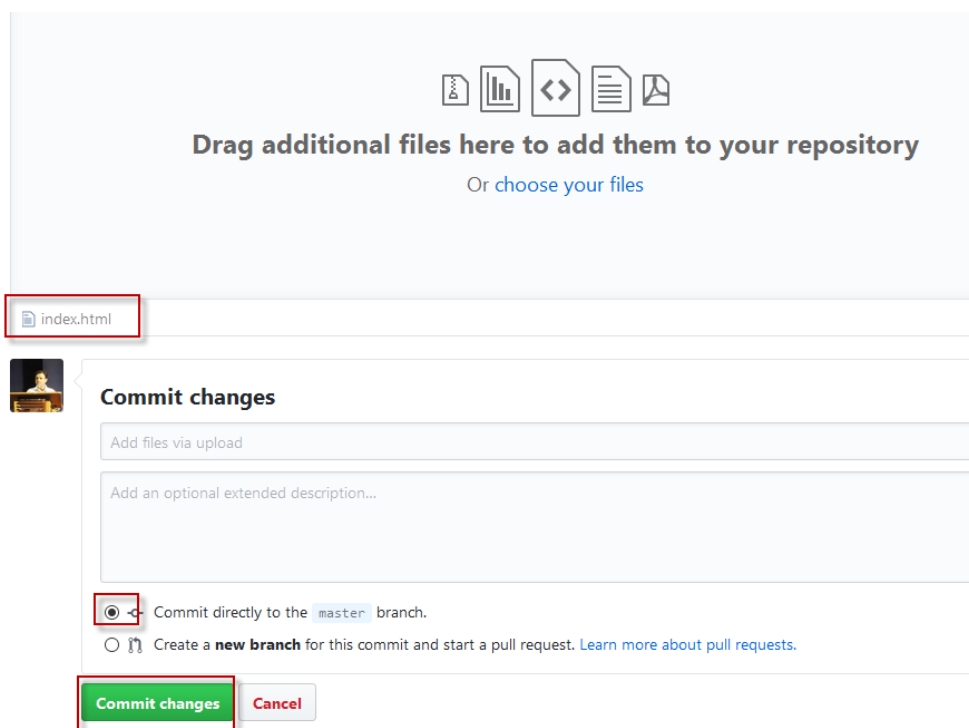
Now Open github.com (Create your Account FREE) and Login than Click on New Repository



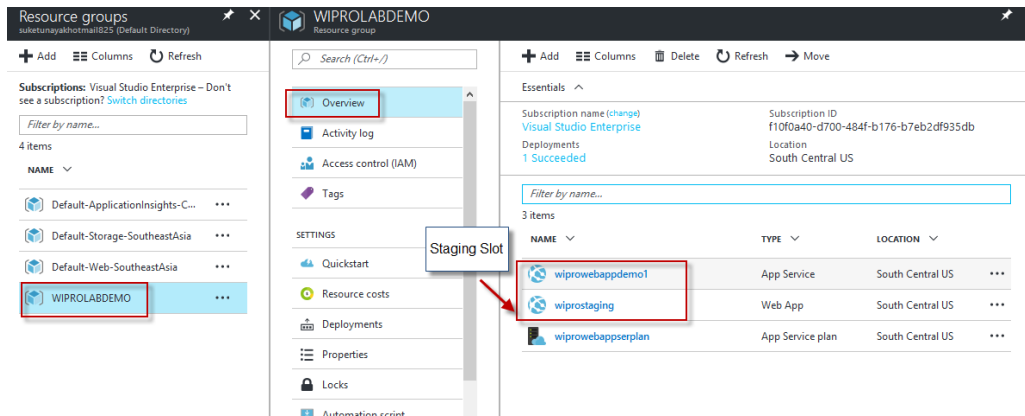
Then Create wiprodemo repository and Click on Upload Files Button shown below



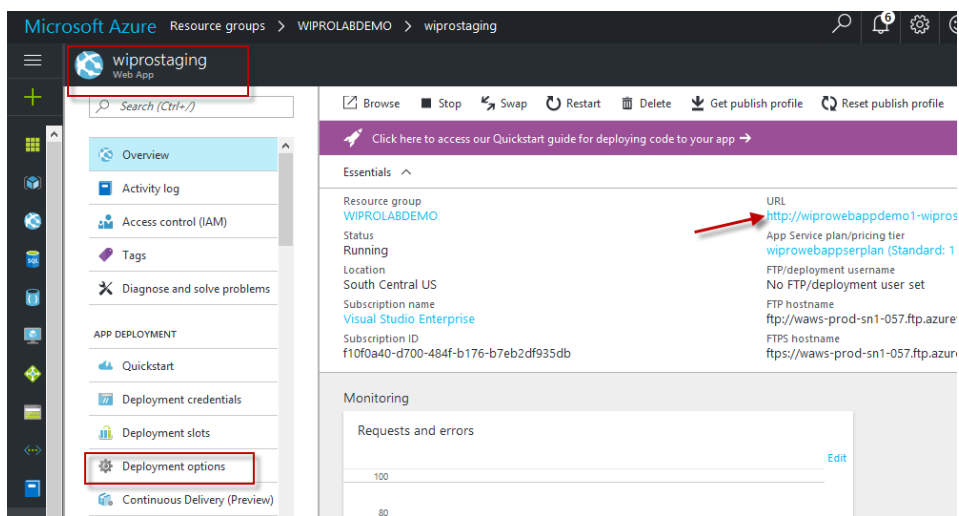
Now edit that index.html page to version 1.0 in local machine and upload here in github (Upload using Drag and Drop) -> Click on Commit Changes



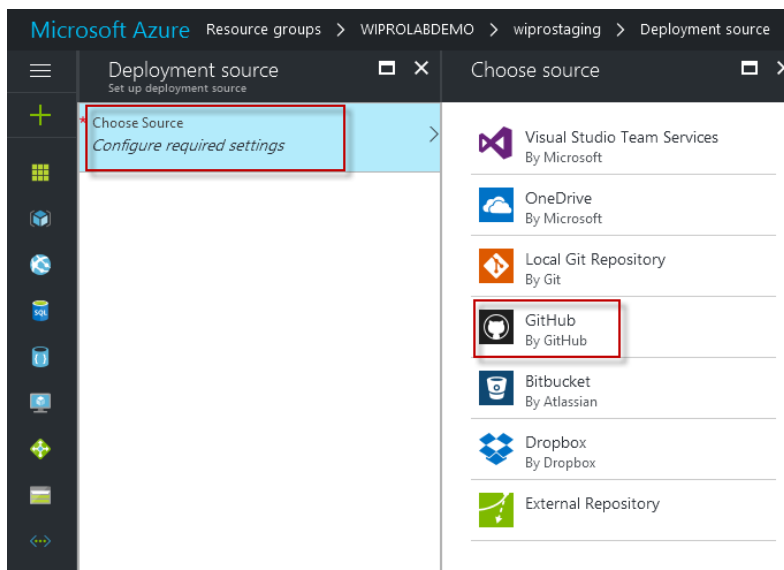
Now you have two webapps one main webapp and one staging slot webapp



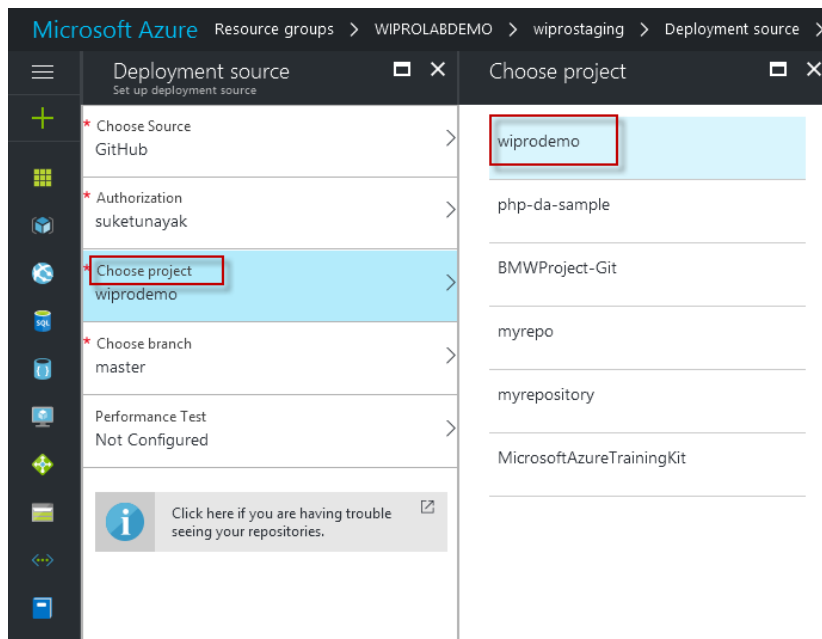
Now Click on wiprostaging (Staging Web App) -> Click on Deployment Options in menu



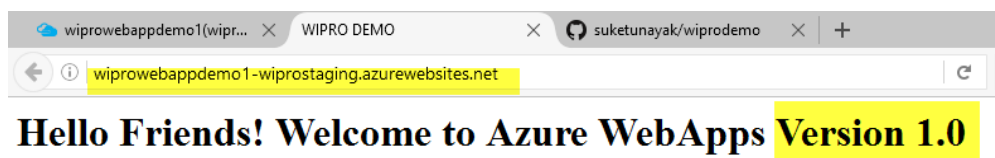
Below is list of Deployment Options, Choose Github (Sign in with your github credentials)



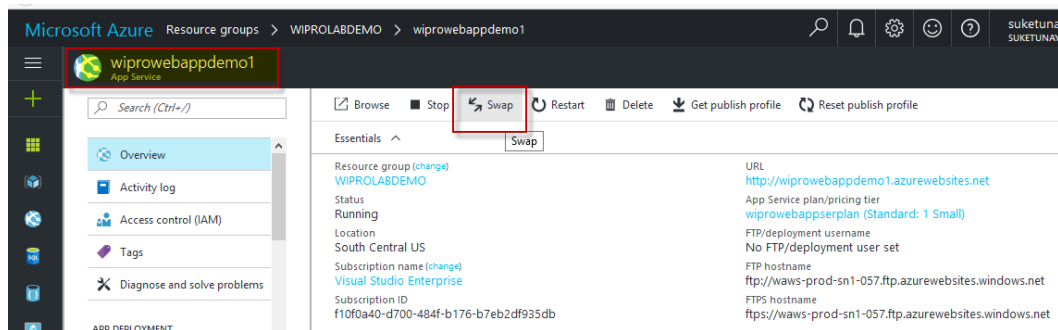
Than Choose Project wiprodemo



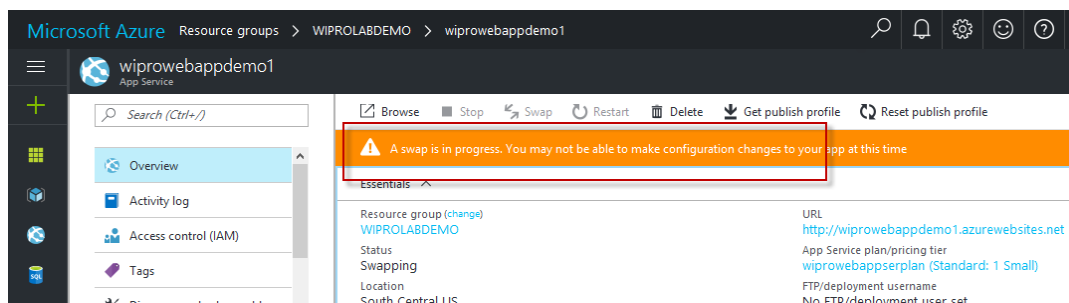
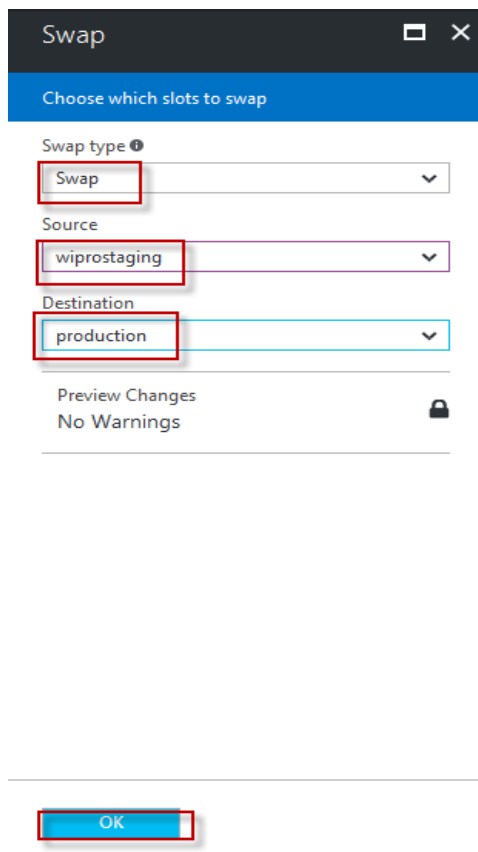
Now Click on staging URL and see Version 1.0 is ready in staging slot



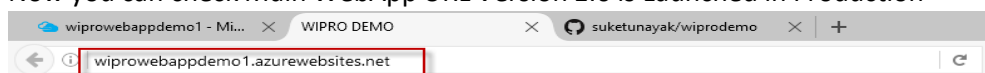
Now Click on Main WebApp and Click on Overview and Click on SWAP Button



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



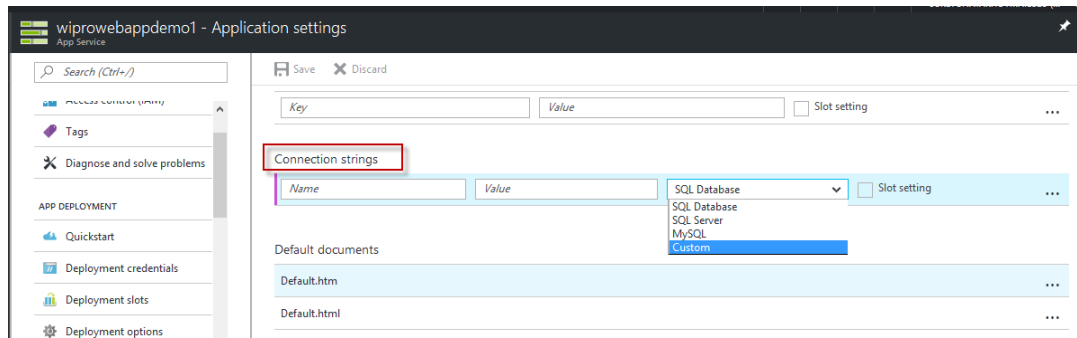
Hello Friends! Welcome to Azure WebApps Version 1.0

Ver. 1.0 in
Production Site
URL

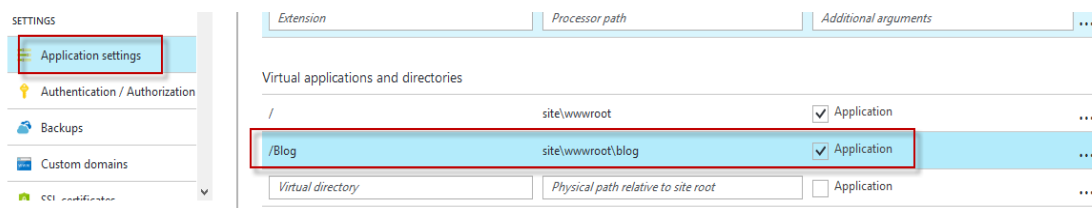
Now in below option Application Settings you can select multiple language platform accordingly your language of web application.

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

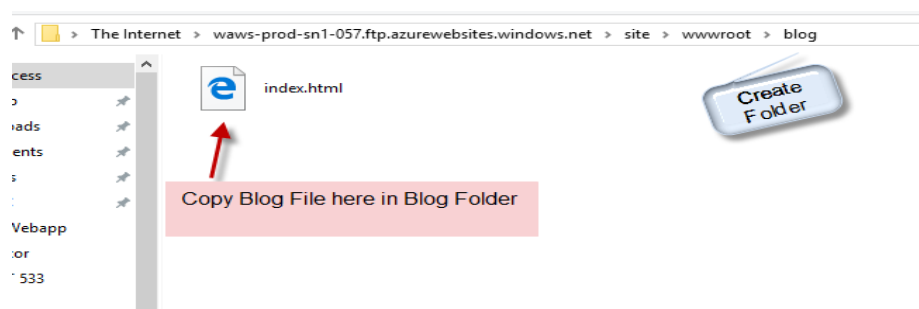
In Connection Strings option also you can pre define your connection strings of SQL Database, SQL Server, MySQL or custom of your application.



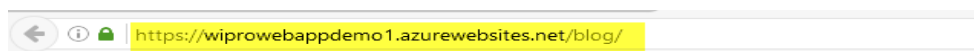
In Same option page we can also configure Virtual Applications and Virtual Directories, Like we added Blog Directory in wwwroot folder and click on Check Box Application.



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.

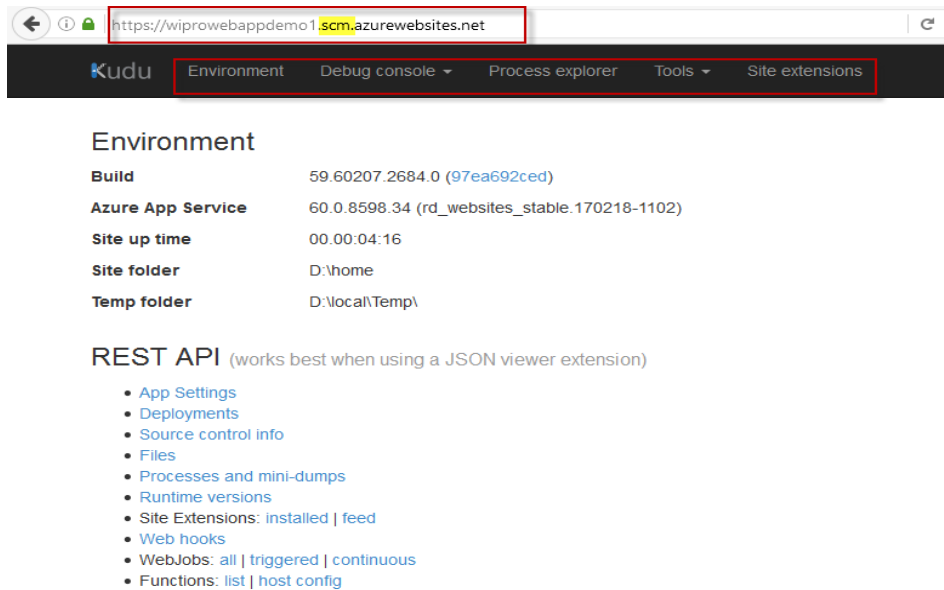


Open WebApp URL and append /Blog and Click Go in Browser your Blog Page will be available in Browser.



Hello Friends! Welcome to my WIPRO Blog

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 contains the URL `https://wiprowebappdemo1.scm.azurewebsites.net`. The navigation bar includes links for Environment, Debug console, Process explorer, Tools, and Site extensions. The main content area displays the 'Environment' section with the following details:

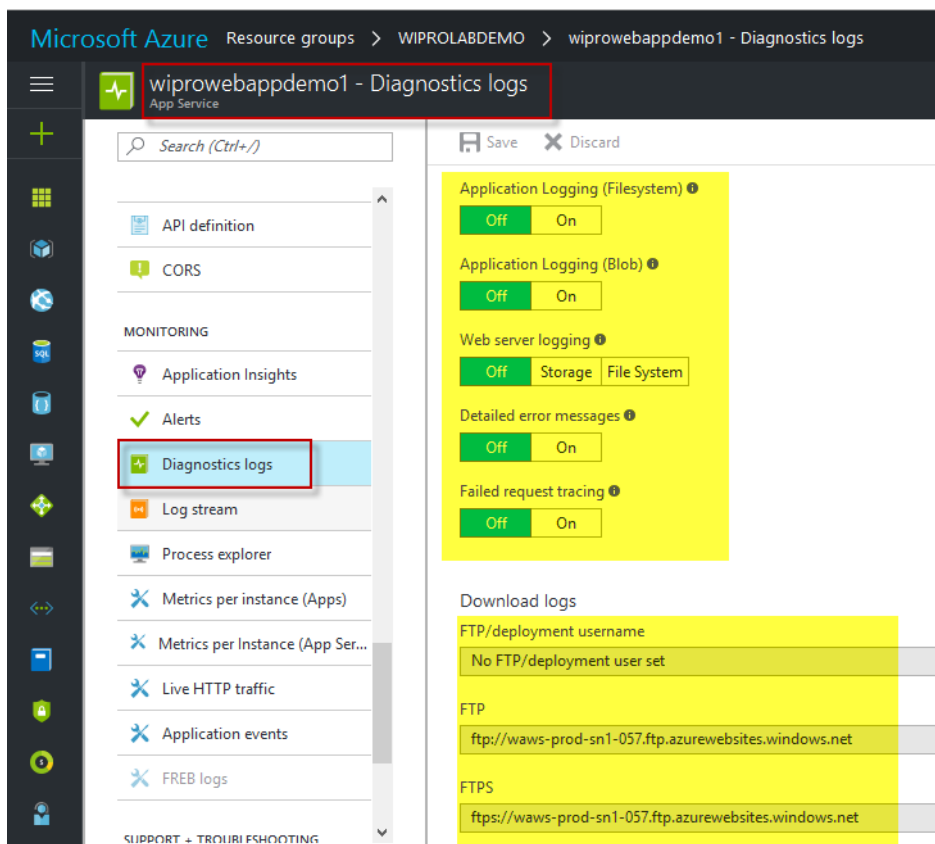
- Build:** 59.60207.2684.0 (97ea692ced)
- Azure App Service:** 60.0.8598.34 (rd_websites_stable.170218-1102)
- Site up time:** 00.00:04:16
- Site folder:** D:\home
- Temp folder:** D:\local\Temp\

Below the environment section is the 'REST API' section, which includes a list of links for various operations:

- 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. The breadcrumb navigation indicates the path: Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Diagnostics logs. The left-hand navigation pane shows the 'Diagnostics logs' menu item highlighted. The main content area displays the configuration for 'wiprowebappdemo1 - Diagnostics logs' with the following settings:

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

Below the configuration section is the 'Download logs' section, which provides links for downloading logs:

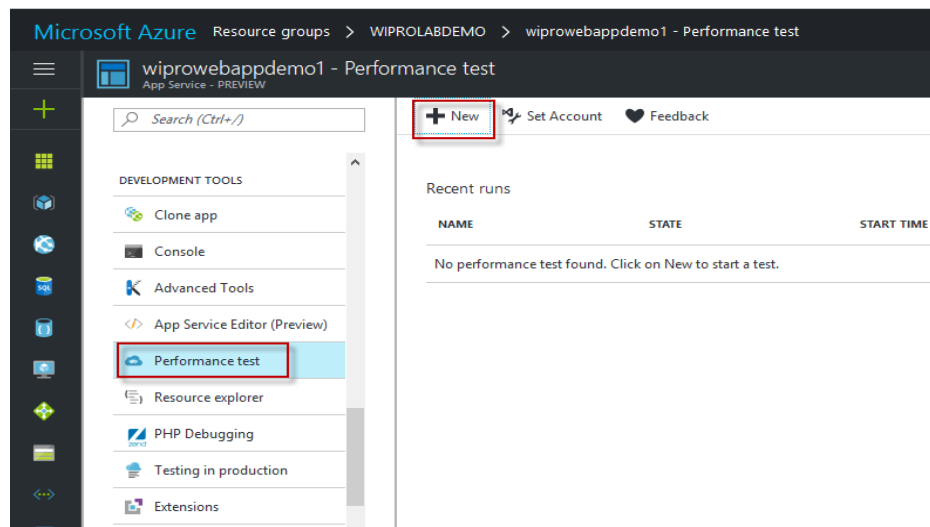
- FTP/deployment username:** No FTP/deployment user set
- FTP:** ftp://waws-prod-sn1-057.ftp.azurewebsites.windows.net
- FTPS:** ftps://waws-prod-sn1-057.ftp.azurewebsites.windows.net

Below is Auto generated Paths of Log Files

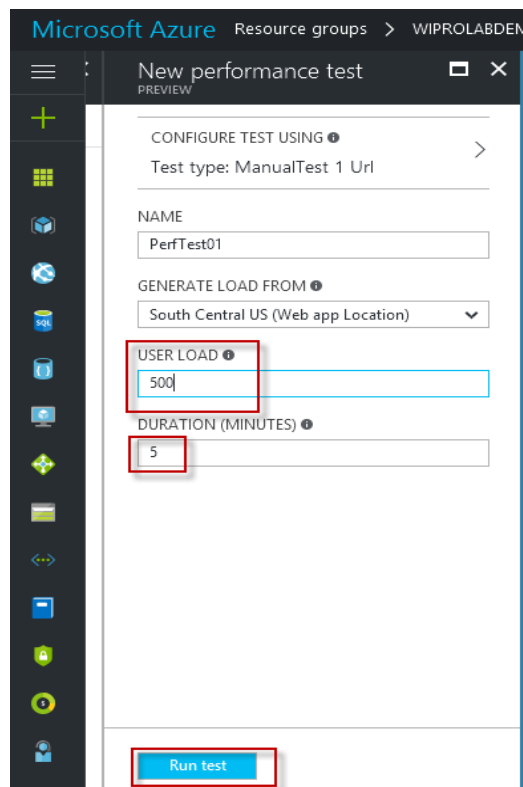
TABLE 1-5 Diagnostic log file locations on the file system for an Azure website

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://ct-f82cf8eb-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
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

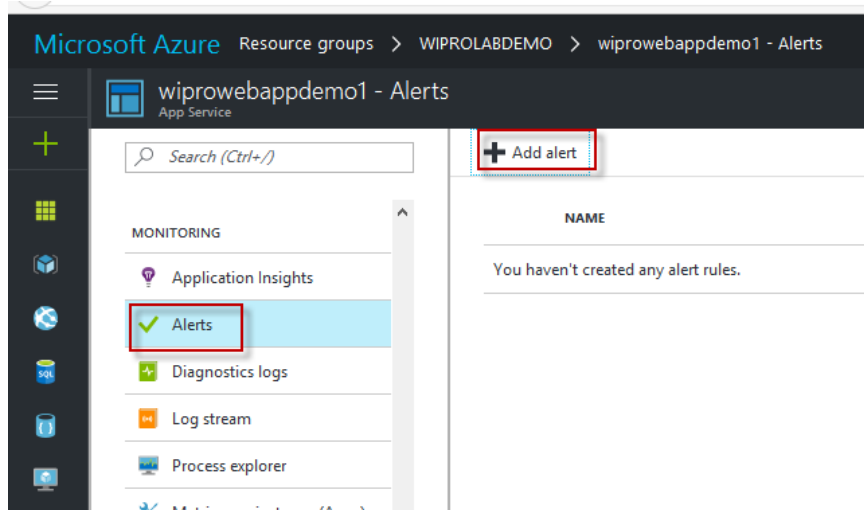
App Service Plan

Scale WIPROWEBAPPSERPLAN

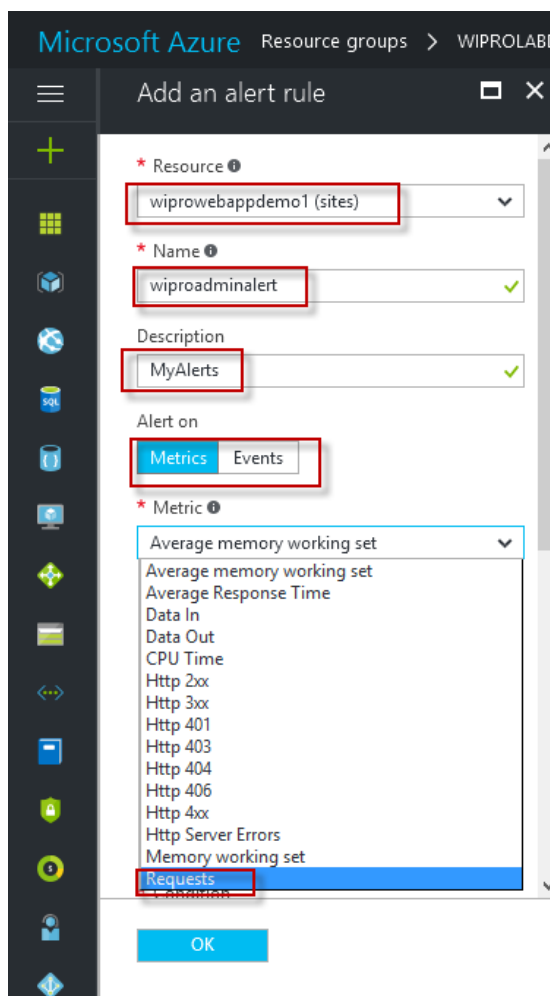
Autoscale Off

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

Condition: greater than

Threshold: 500

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

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.

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 > Choose your pricing tier

Choose your pricing tier
Browse the available plans and their features

Search (Ctrl+/)

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

APP SERVICE PLAN
App Service plan

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
14,752.68 INR/MONTH (ESTIMATED)	29,505.37 INR/MONTH (ESTIMATED)	59,010.73 INR/MONTH (ESTIMATED)

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 Auto scale	Up to 10 instances Auto scale	Up to 10 instances Auto scale

Select

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

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - Scale out (App Service plan)

wiprowebappdemo1 - Scale out (App Service plan)

Save Discard

AVERAGE INSTANCES

Scale by: CPU Percentage

Description: Automatically scale up or down based on CPU Percentage. Choose an average value you want to target.

Instances: 10

Target range: 100

Notifications for Scale Actions

☐ Email Administrator and Co-Administrators

Additional email(s)

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.

The screenshot shows the Microsoft Azure portal interface. The top navigation bar includes the Microsoft Azure logo, the breadcrumb path 'Resource groups > WIPROLABDEMO > wiprowebappdemo1 - SSL certificates', and a user profile dropdown. The left-hand navigation pane lists various services, with 'SSL certificates' highlighted under the 'wiprowebappdemo1' resource group. The main content area is titled 'wiprowebappdemo1 - SSL certificates' and features a yellow 'SSL' header. Below the header, a message states: '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.' Two buttons are present: 'Import App Service Certificate' and 'Upload Certificate'. A message below these buttons says: 'You have no certificates. Upload a certificate now to get started.' Under the 'SSL bindings' section, there is an 'Add binding' button. Below this is a table with columns 'HOST NAME', 'CERTIFICATE', and 'SSL TYPE'. The table currently contains no data, with the text 'No results' displayed at the bottom.

Microsoft Azure Resource groups > WIPROLABDEMO > wiprowebappdemo1 - SSL certificates

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		