# ACKNOWLEDGEMENT

In the first place, I might want to say thanks to Almighty GOD who has given me the valor and chance to finish my DDAC task on time. Plus, I particularly get a kick out of the chance to thank my speaker Dr. Kalai Anand who helped me to learn Azure distributed computing as I didn't have any information about it. I confronted such many difficulties and challenges while doing this extend, yet he helped me by sharing his immense experience through lab hands-on session about Azure distributed computing. I likewise jump at the chance to thank my companions and siblings who supported me while doing this extend. I petition God for their great wellbeing and edify future.

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# 1.0 INTRODUCTION

In today’s era, cloud computing has become popular in the field of application development. Almost all the giant company is moving to cloud computing due to the fastest service and reliable network. One of the popular cloud computing infrastructure in Azure. This has been introduced by Microsoft in the year 2010 with a mission to change the way of software architecture. Azure includes three different types of services which are: SAAS (Software as A Service), IAAS (Infrastructure as A Service) and PAAS (Platform as A Service). Currently airlines company moves their business to cloud services to reach high volume of customers. One of the airlines company is UIA (Ukraine International Airlines). This airline targeted the new market which is beyond the barrier of Ukraine so that they can reach adequate customer from all over the world. The problem they are facing with their site is due to the lack of security and severe DDOS attacks, the performance and reliability is decreasing significantly. Although they have invested a load of money on technology such as paperless cockpit and sophisticated fuel analysing software, they are unable to provide customer service worldwide. So, they decided to migrate their website to public cloud that will solve the entire problems which they are facing currently. For that, they chose to outline and build up an online flight booking framework utilizing Azure stage because of the similarity and open source.

Here as a developer I am will build up an online flight booking system for UIA (Ukraine International Airlines) using Azure PAAS (Platform as A Service). Below discuss about the objectives, Scope and prerequisites together with the primary functions:

## 1.1 Main Function

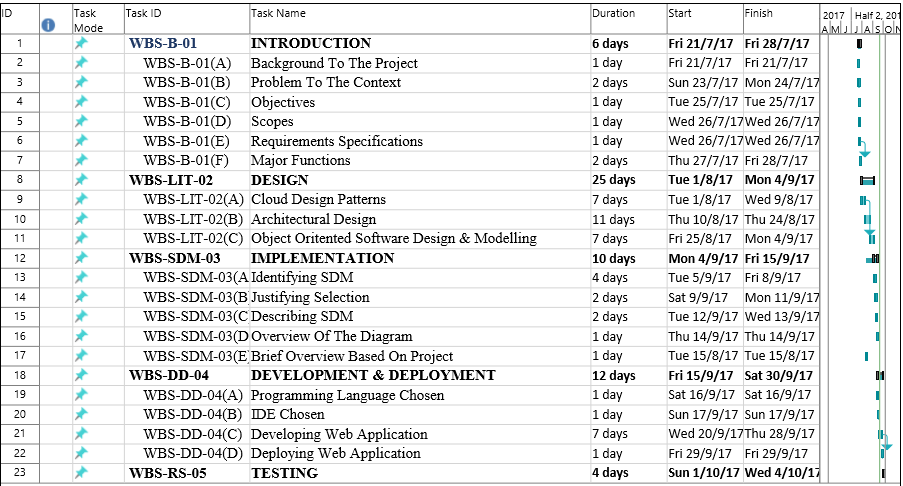
The main function of this project is to provide world-wide customer service those are intended to buy flight tickets using UIA (Ukraine International Airlines) online flight booking system and payment System.

## 1.2 Objective

* To develop an online flight booking system for UIA (Ukraine International Airlines) which will be hosted using Microsoft Azure Cloud Platform.
* It will be hosted using Azure App service and the database will be Azure SQL Database. To control the excessive traffic, azure traffic manager will be included as a middleware between the client and server side. Moreover, to analyse the system performance, azure performance testing will take place.

# 2.0 PROJECT PLAN

Figure 1 Gantt Chart



# 3.0 DESIGN

## 3.1 Architecture Design

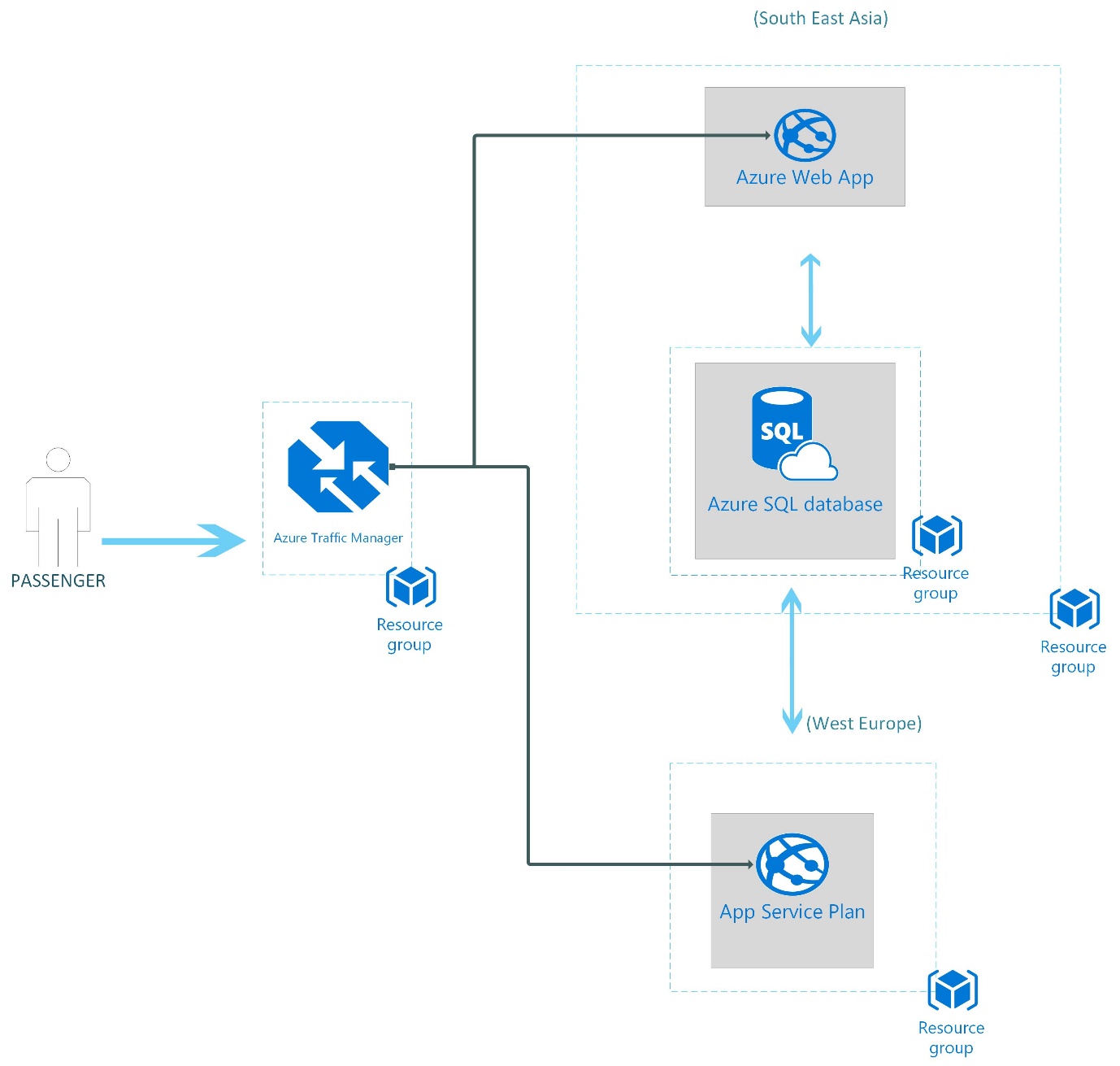


Figure 2 Azure Architecture

3.2 Application Design

### 3.2 (a) Use Case

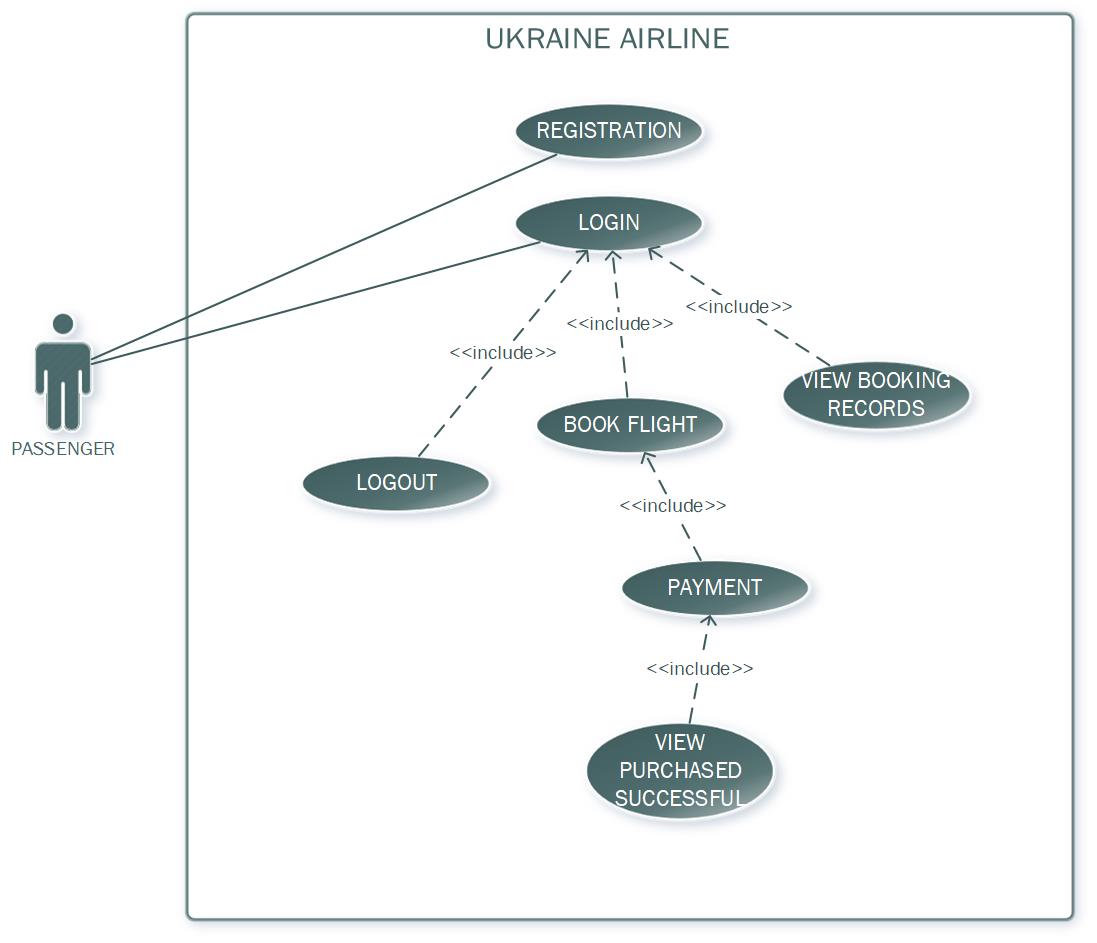


Figure 3 Use Case

### 3.2 (b) Class Diagram

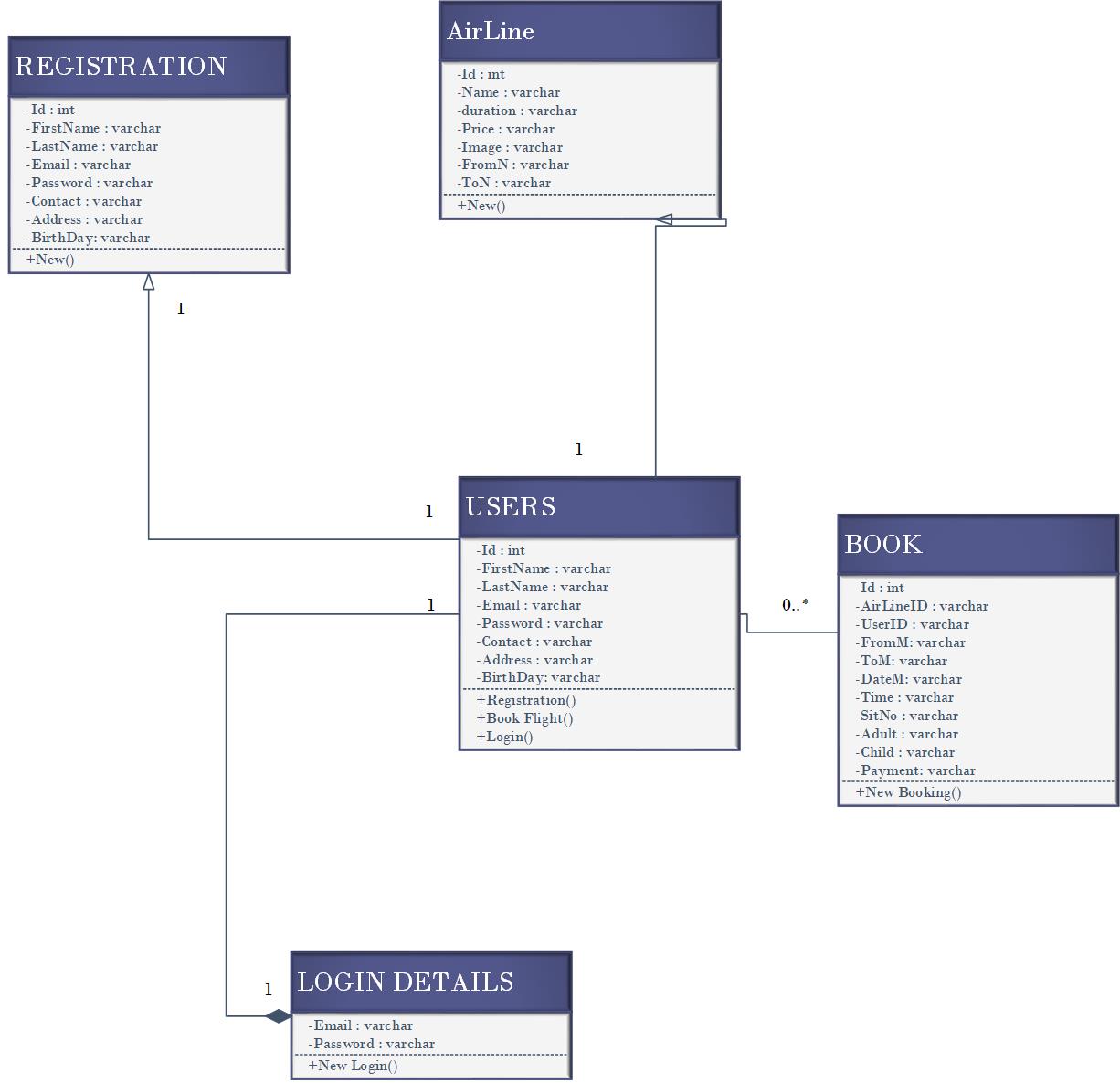
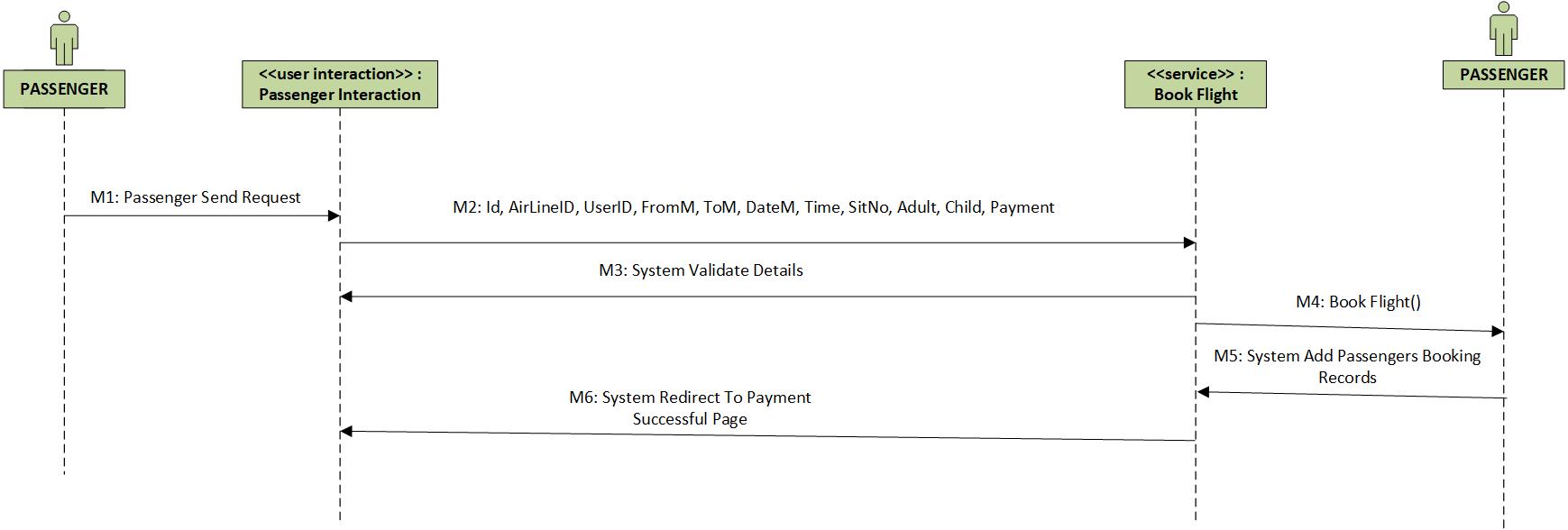


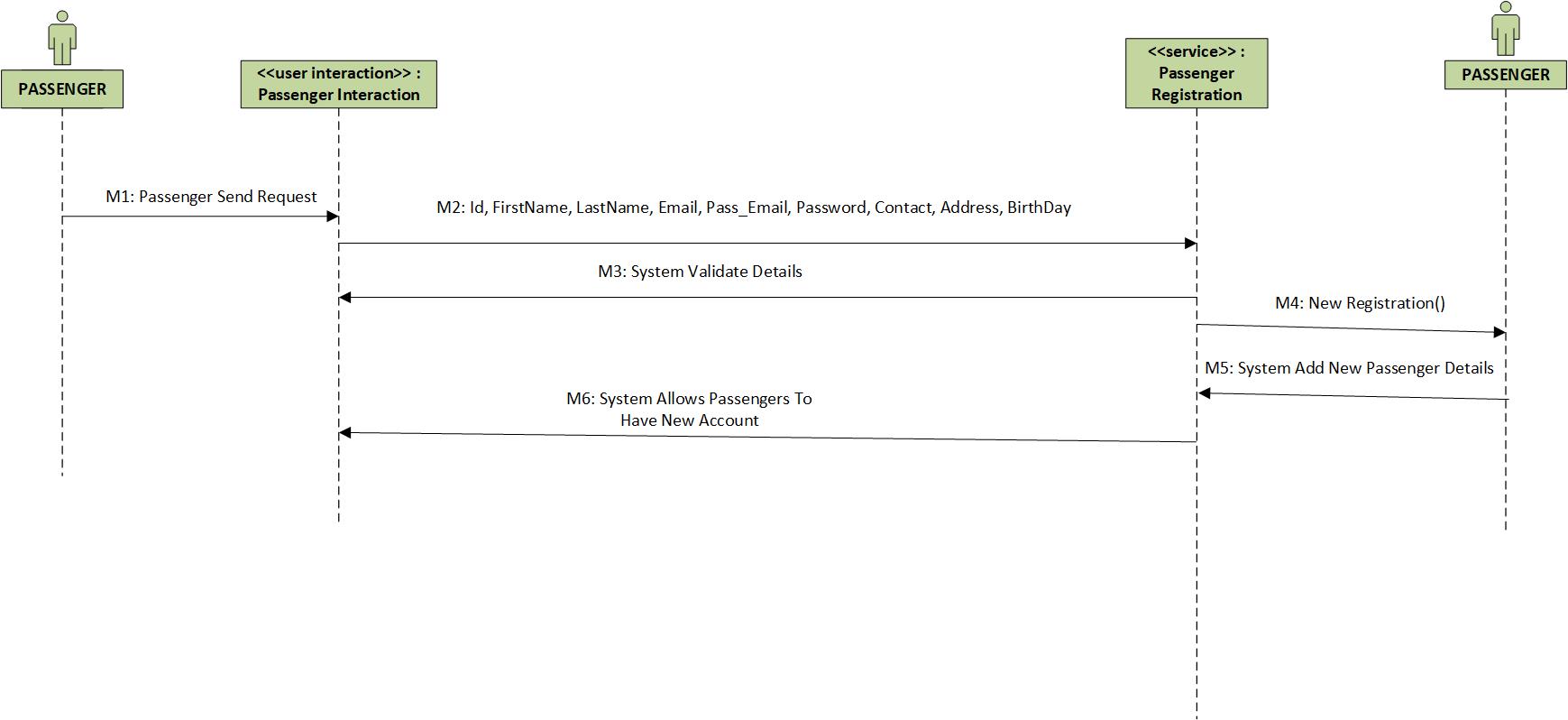
Figure 4 Class Diagram

### 3.2 (c) Sequence Diagram

**Book Flight**



**Passenger Registration**

****

**Passenger Login**

****

## 3.3 UI (User Interface)

### 3.3 (a) Homepage

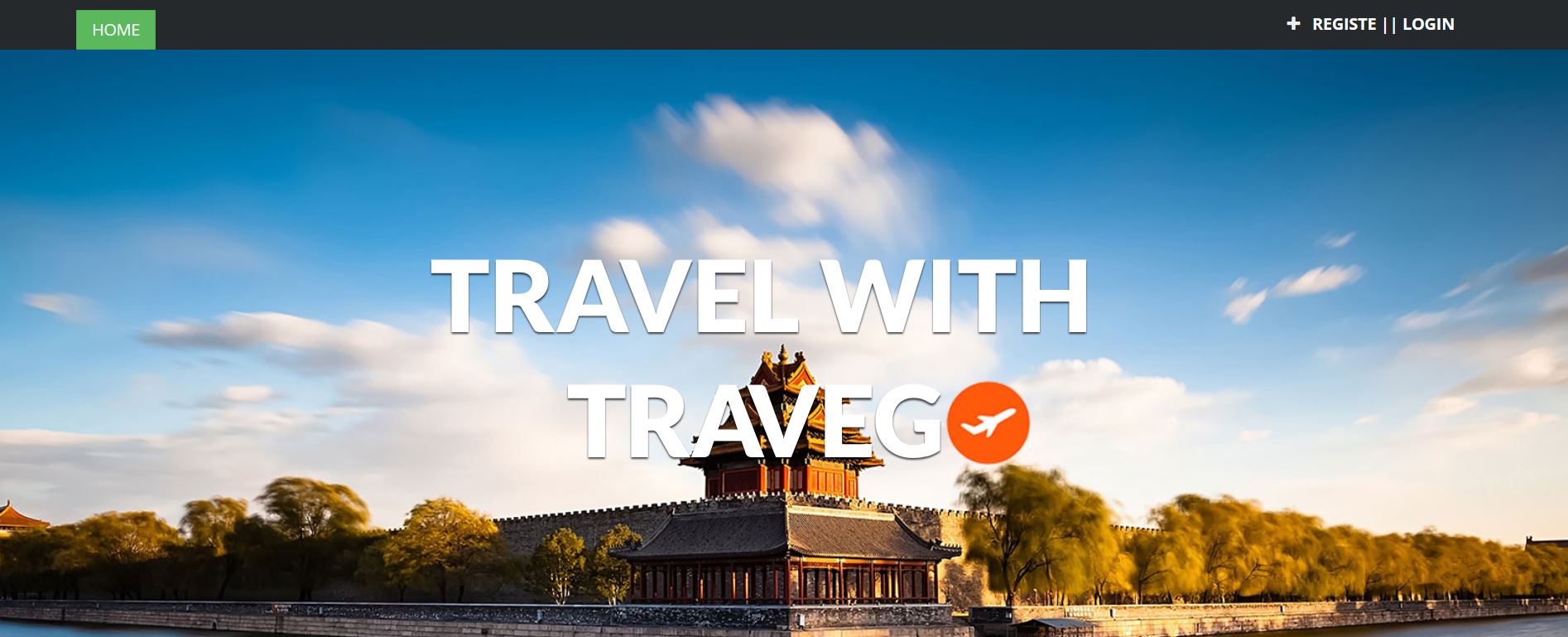


Figure 5 General Home Page

### 3.3 (b) Passenger Registration

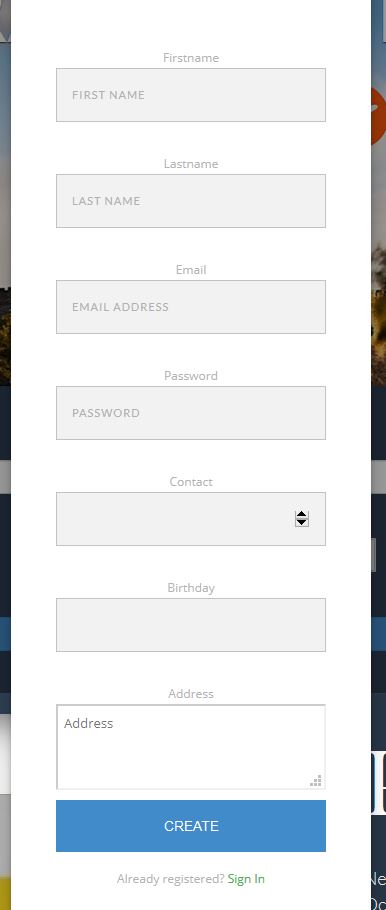


Figure 6 Passenger Registration Page

### 3.3 (c) Login

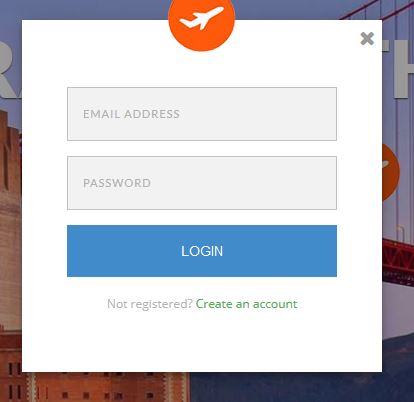


Figure 7 Passenger Login Page

## 3.3 (d)Booking Flight

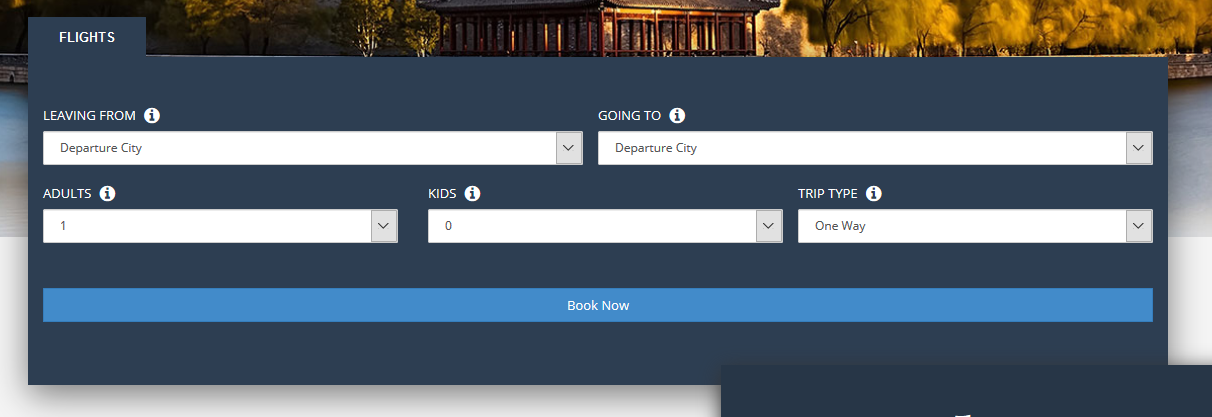


Figure 8 Book Flight

## 3.3 (e)Select Flight

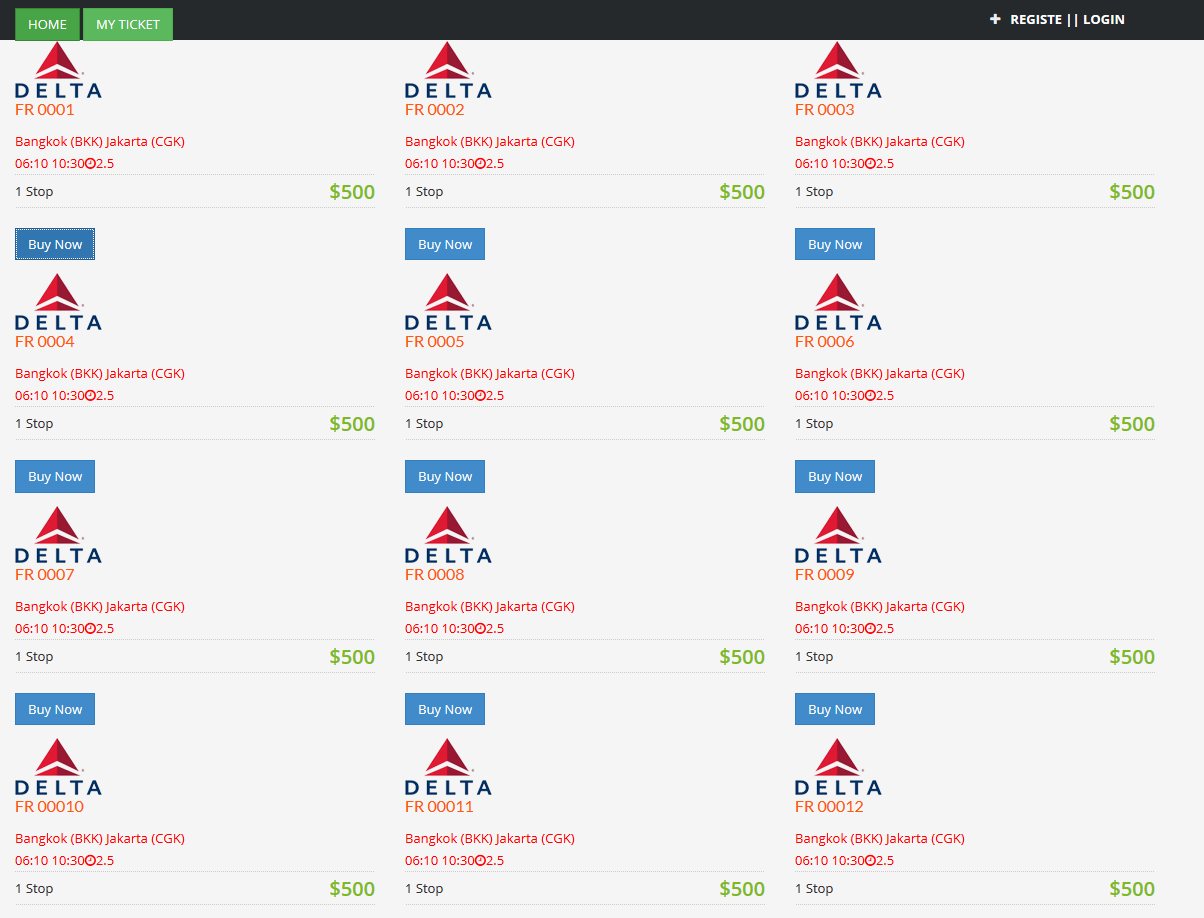


Figure 9 Select Flight

## 3.3 (f) Purchase Card

Figure 10 Purchase Card

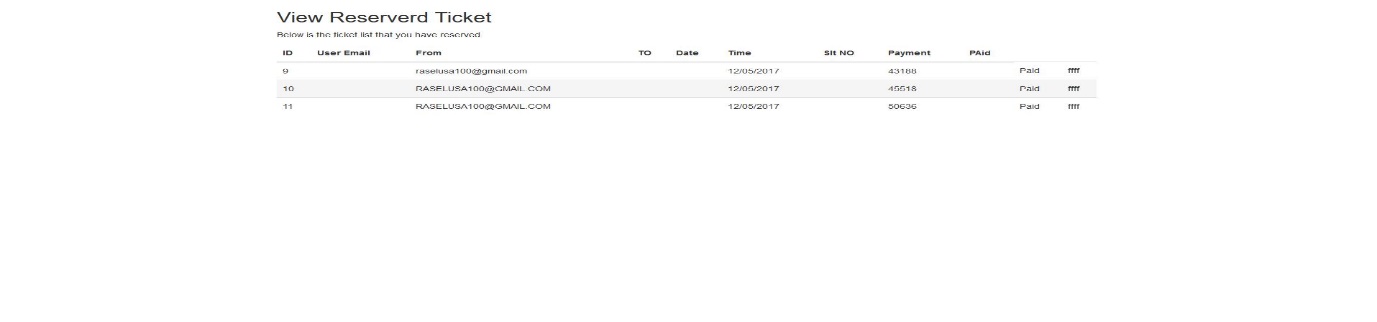
3.3 (f) View Reserved Ticket

Figure 11 View Reserved Ticket

### 3.3 (h) Booking Confirmation

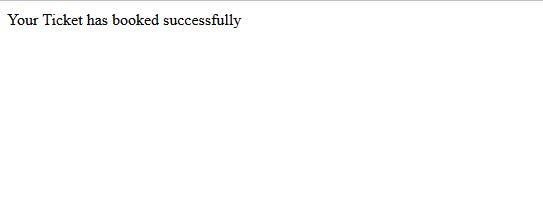


Figure 12 Booking Confirmation Page

4.0 IMPLEMENTATION

## 4.1 Publishing Application to Azure

In this section we are going to discuss about the steps that we followed to publish our application on azure using azure app service. We are going to publish our apps on two different regions. In this case our selected regions are South East Asia and West US respectively. We are going to implement azure traffic manager that will allow us to control the distribution our application user traffic for the service end points between South East Asia (Singapore) & West US datacenters. Below showing the steps:

### Step 1: Creating App Service (South East Asia & West US)

At first, we need to create app service for both South East Asia & West US. Here the resource group need to create individually so that if any if the service region goes down it won’t affect the other region.

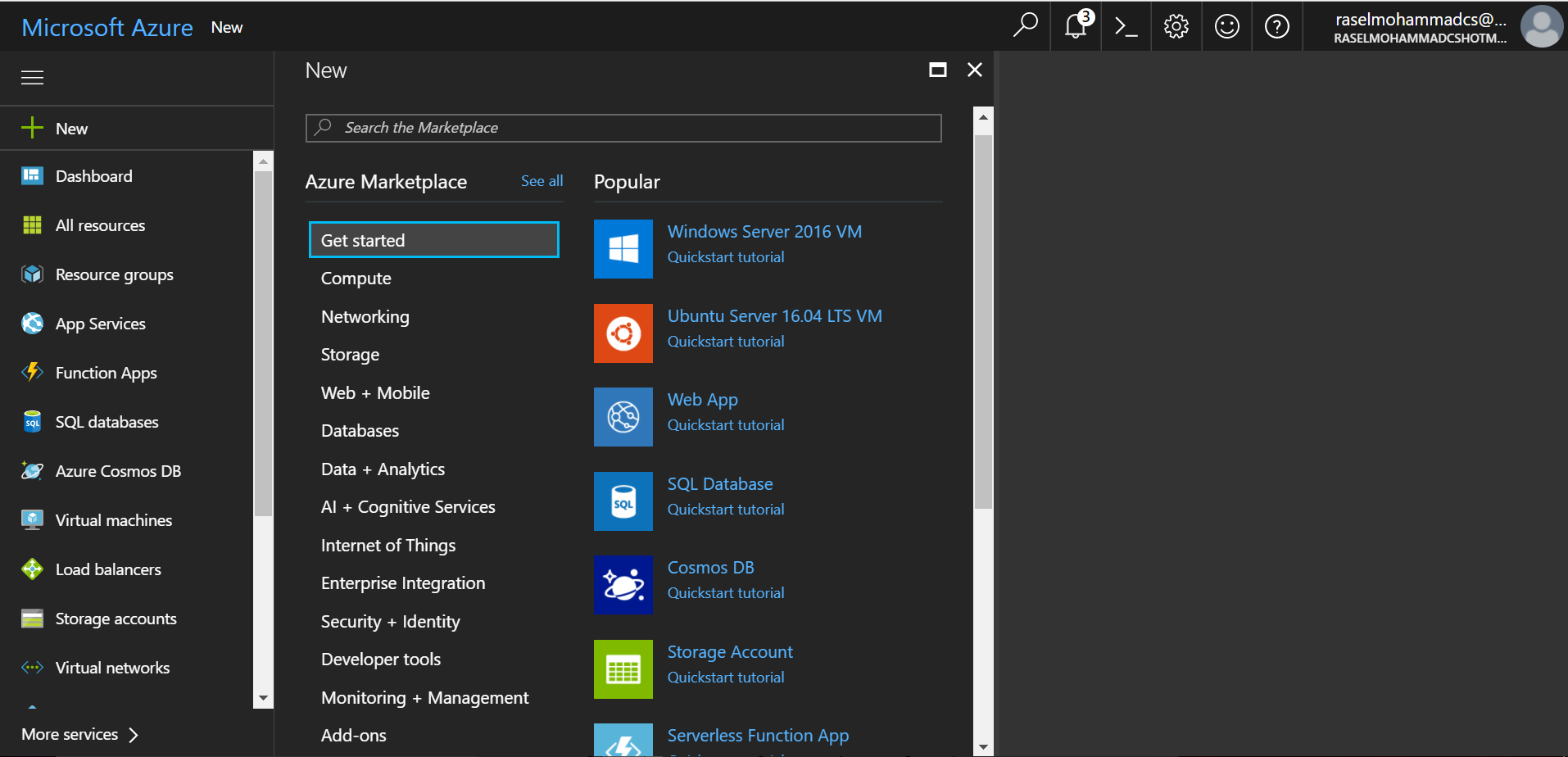


Figure 13 Selecting Web App Service

From here we select “Web App” and create a new app service. To create a new app service, we need to give unique app name, select subscription, create or choose our resource group as well as service plan. At first, we need to choose “South East Asia” region under S1 (Standard) Tier.

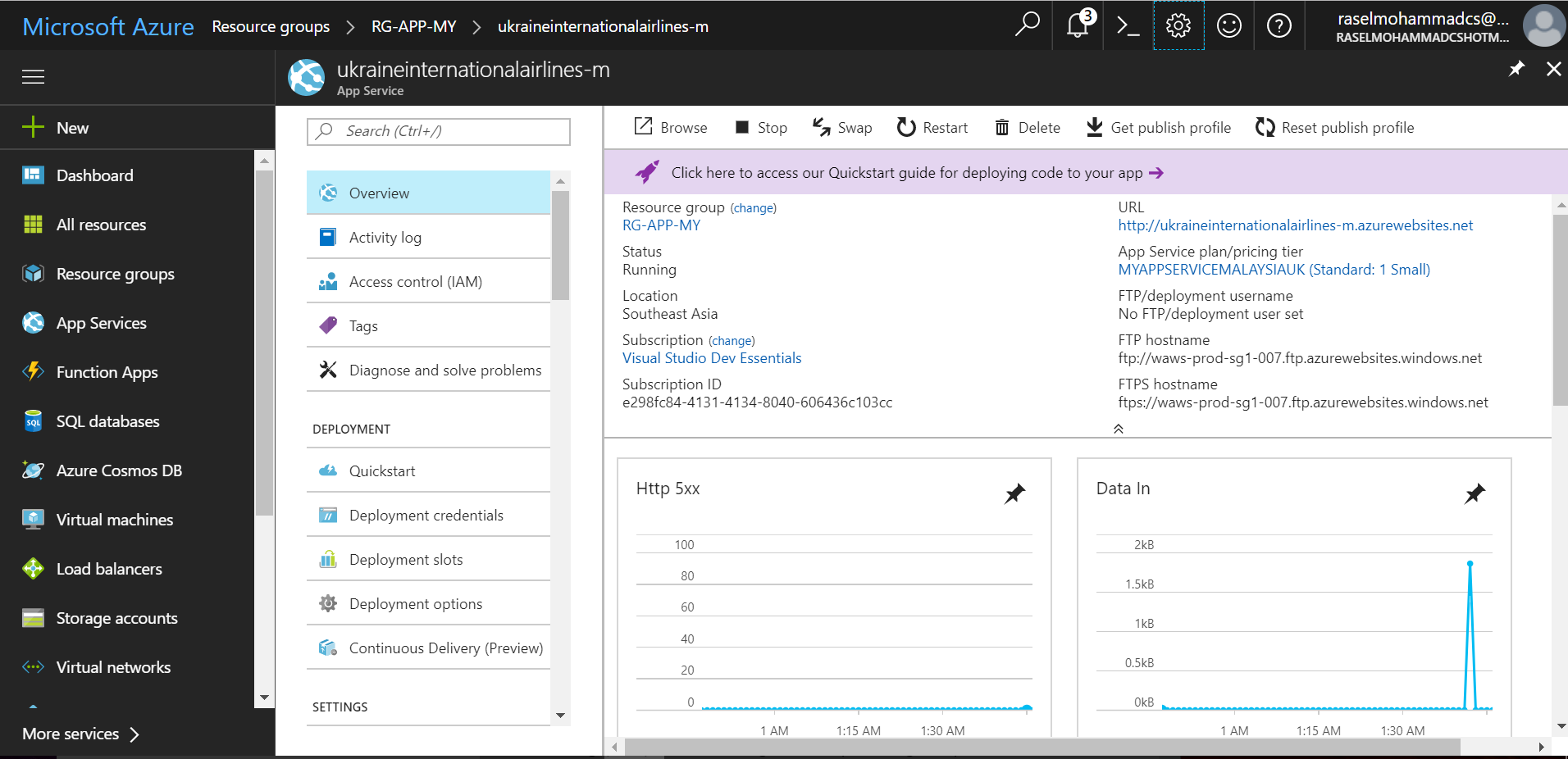


Figure 14 Web App Service South East Asia

As per the requirements, we need to create another app service to different region. Our selected region is “West US”.

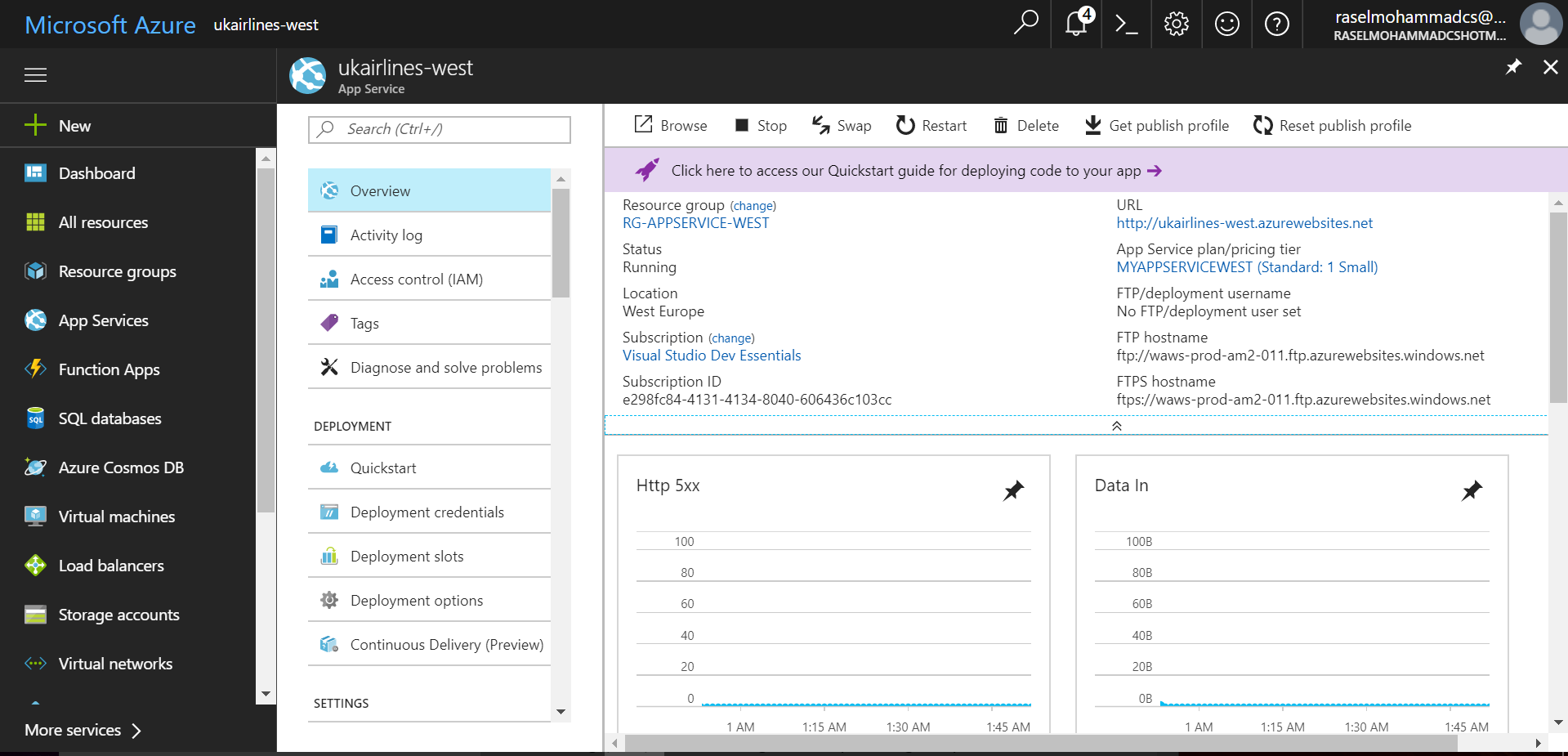


Figure 15 Web App Service West US

Then we publish our web app to both region. To make the URL distinguish we have added “-my” for Malaysia and “-wus” for West US region respectively. We have published our web app directly from visual studio 2017 enterprise edition. Below showing how we publish web app.

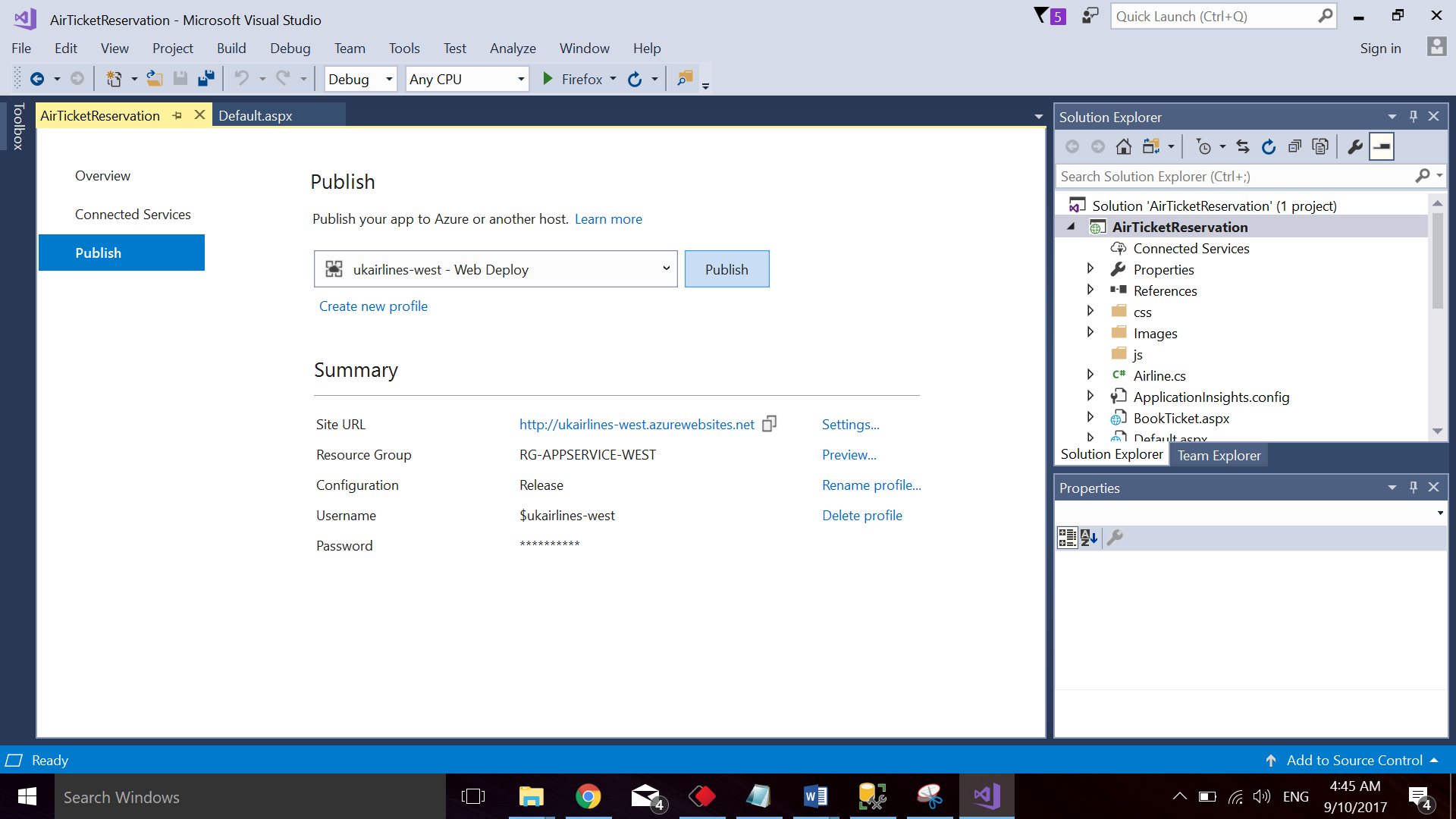


Figure 16 Selecting Azure App Service

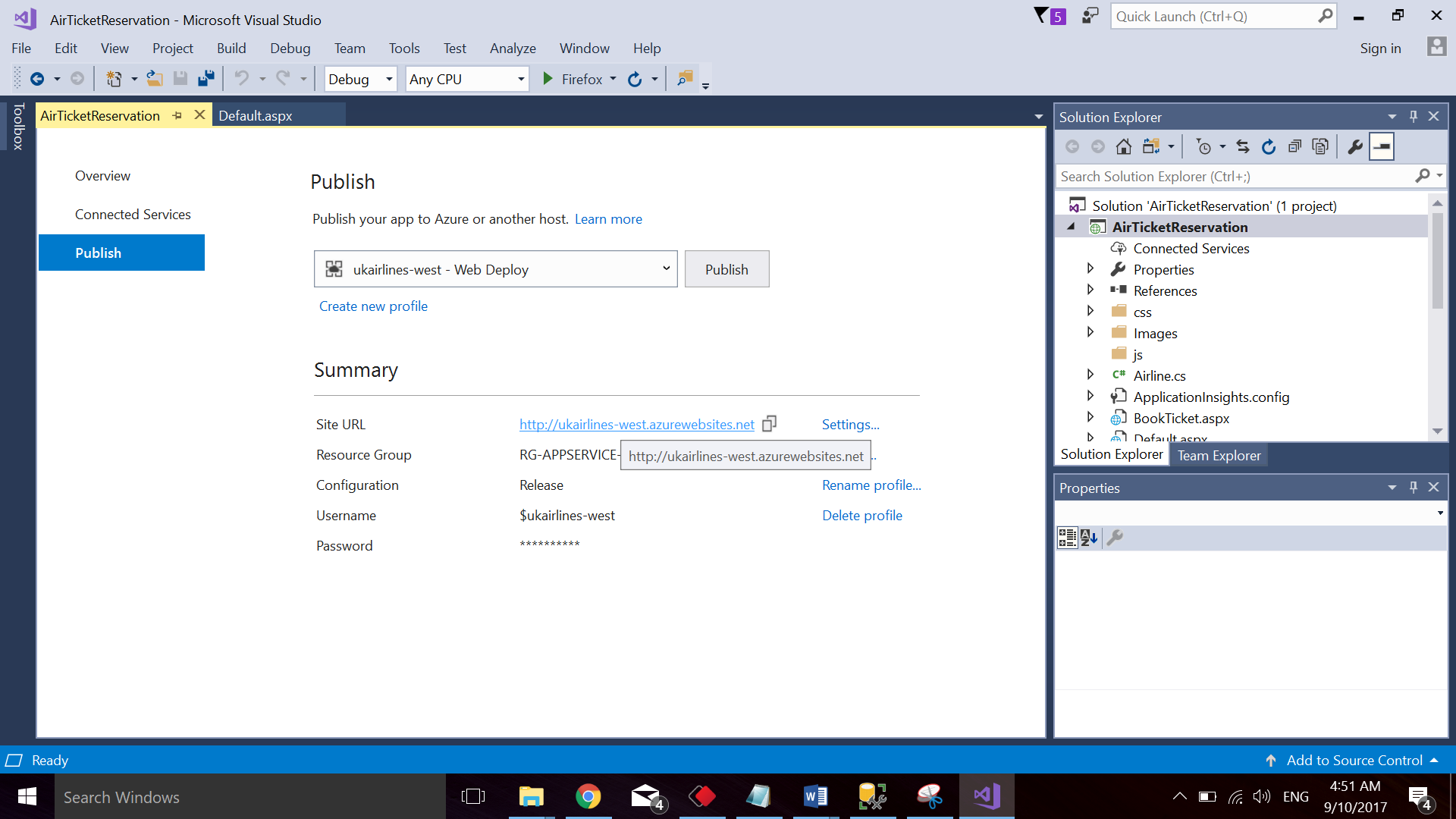


Figure 17 Web Deploy To South East Region

Now if we click on the create app service link for both region, it will show our web app from both side.

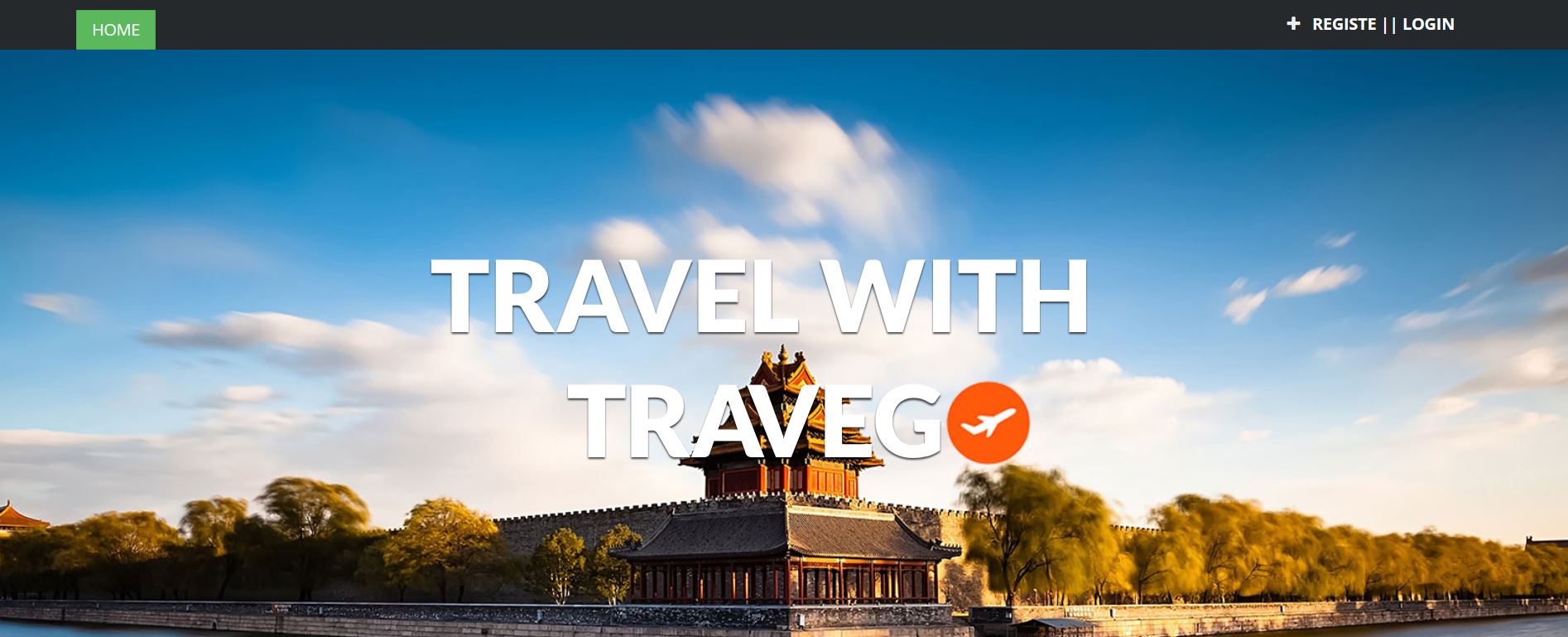


Figure 19 Web App (South East Asia)

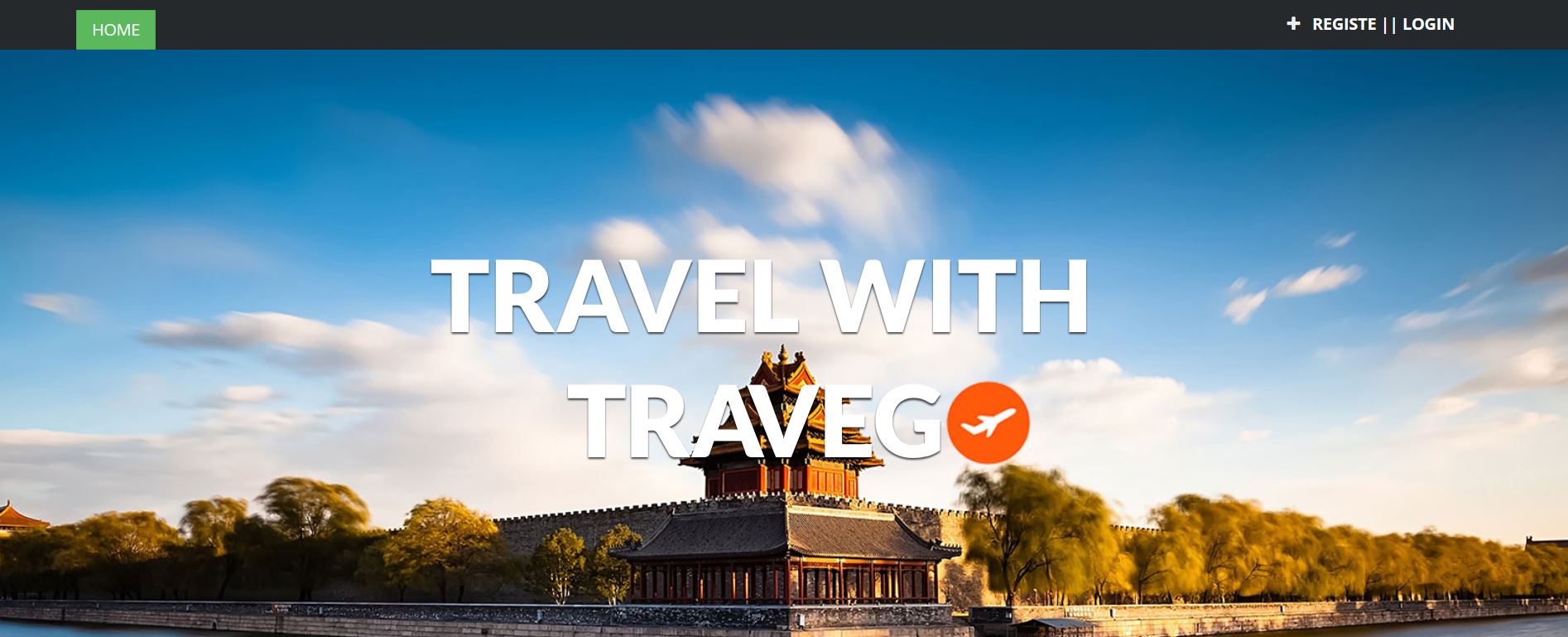


Figure 20 Web App (West US)

### Step 2: Creating Traffic Manager Profile

Now we create our traffic manager profile so that the traffic of the user can be controlled by distributing the user traffic for service end points in different datacenters.

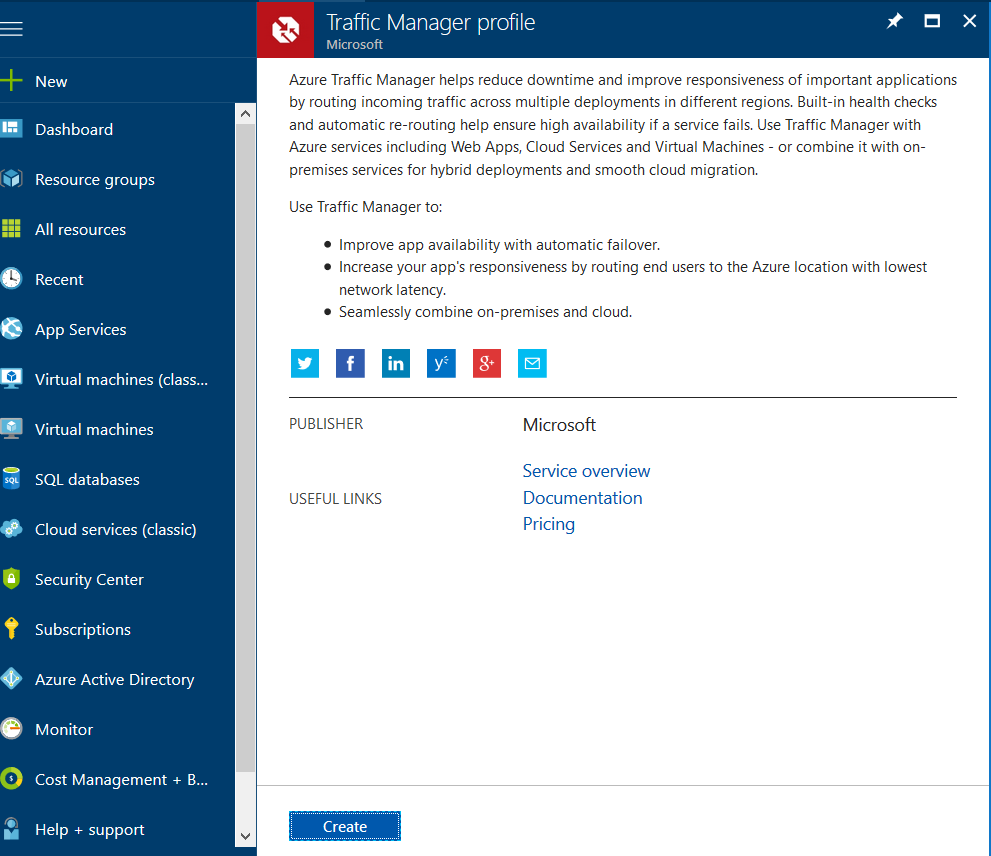


Figure 21 Create New Traffic Manager Profile

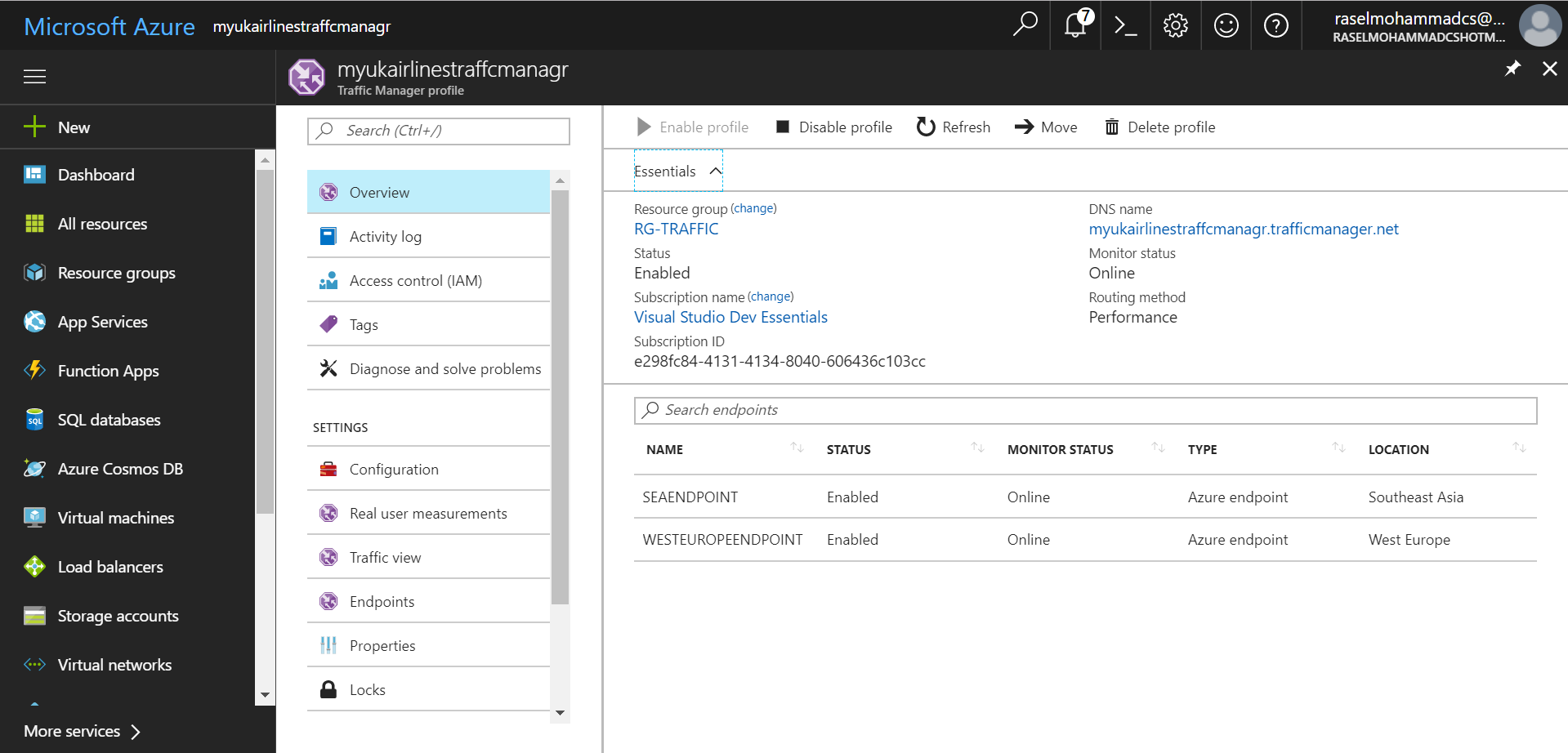


Figure 22 Traffic Manager Overview

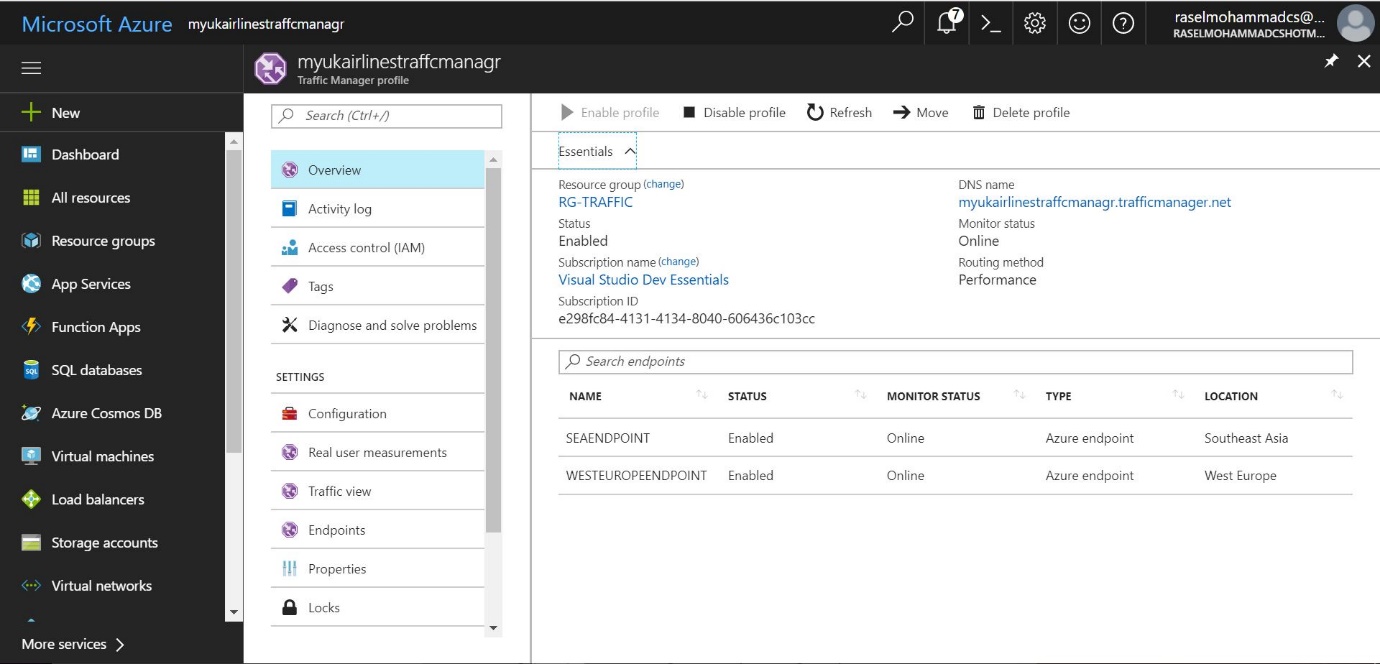


Figure 23 Traffic Manager End-Point

Above showing our created traffic manager profile and the added end-point for both the region.

### Step 3: Creating Azure SQL Database

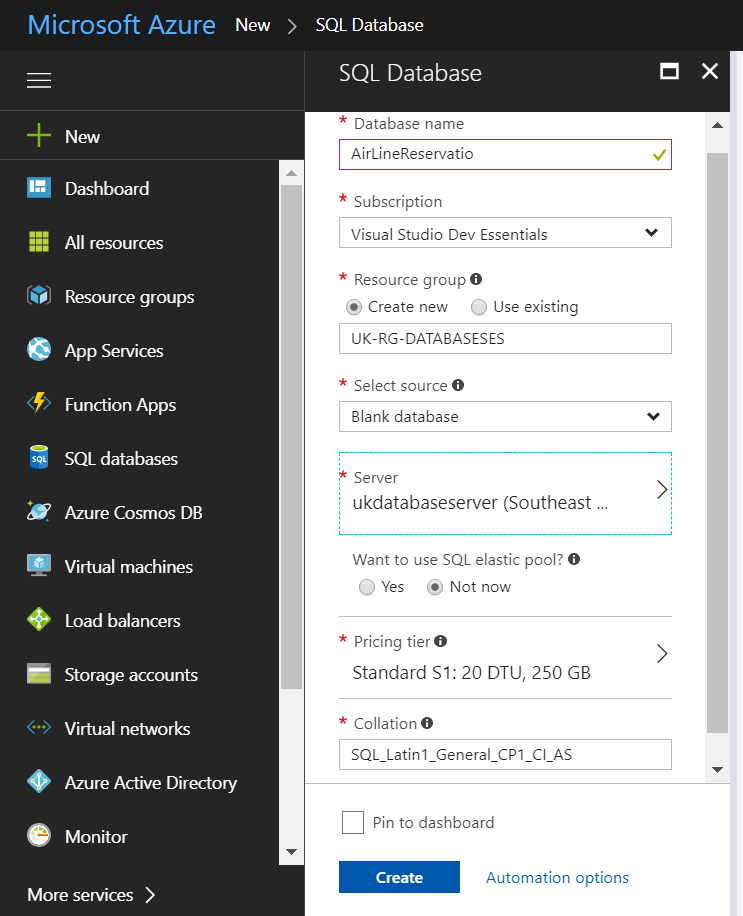
Here we have created azure sql database service. We selected the database service from menu and entered all the details that essential for the sql database.

Figure 24 Create Azure SQL Database Service (Microsoft Azure, 2015)

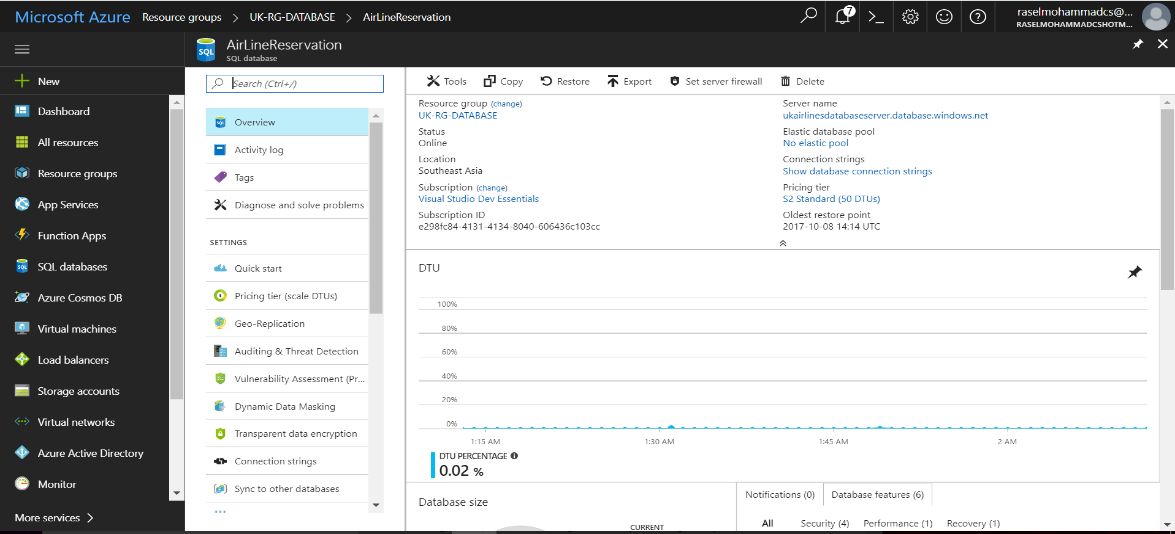
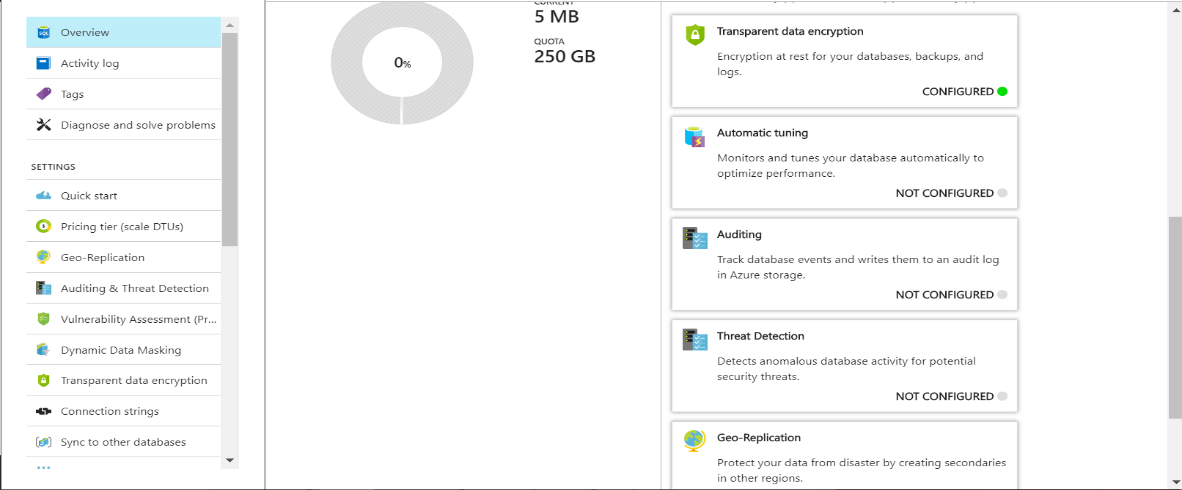
After that azure created the sql database service and open the new windows where it shows server name, status, location, resource group, subscription, connection string, pricing tier as well as the total DTU with other details. Below showing the new window:

Figure 25 Azure Sql Database Overview (Microsoft Azure, 2015)

### Step 4: Viewing Web App Based On DNS

When we click the DNS link that we have created for traffic manager it will redirect us to the nearest end-point.

Now if we disable the end-point of South East Asia region and click on the DNS link again, it will redirect us to the other end-point which is West US.

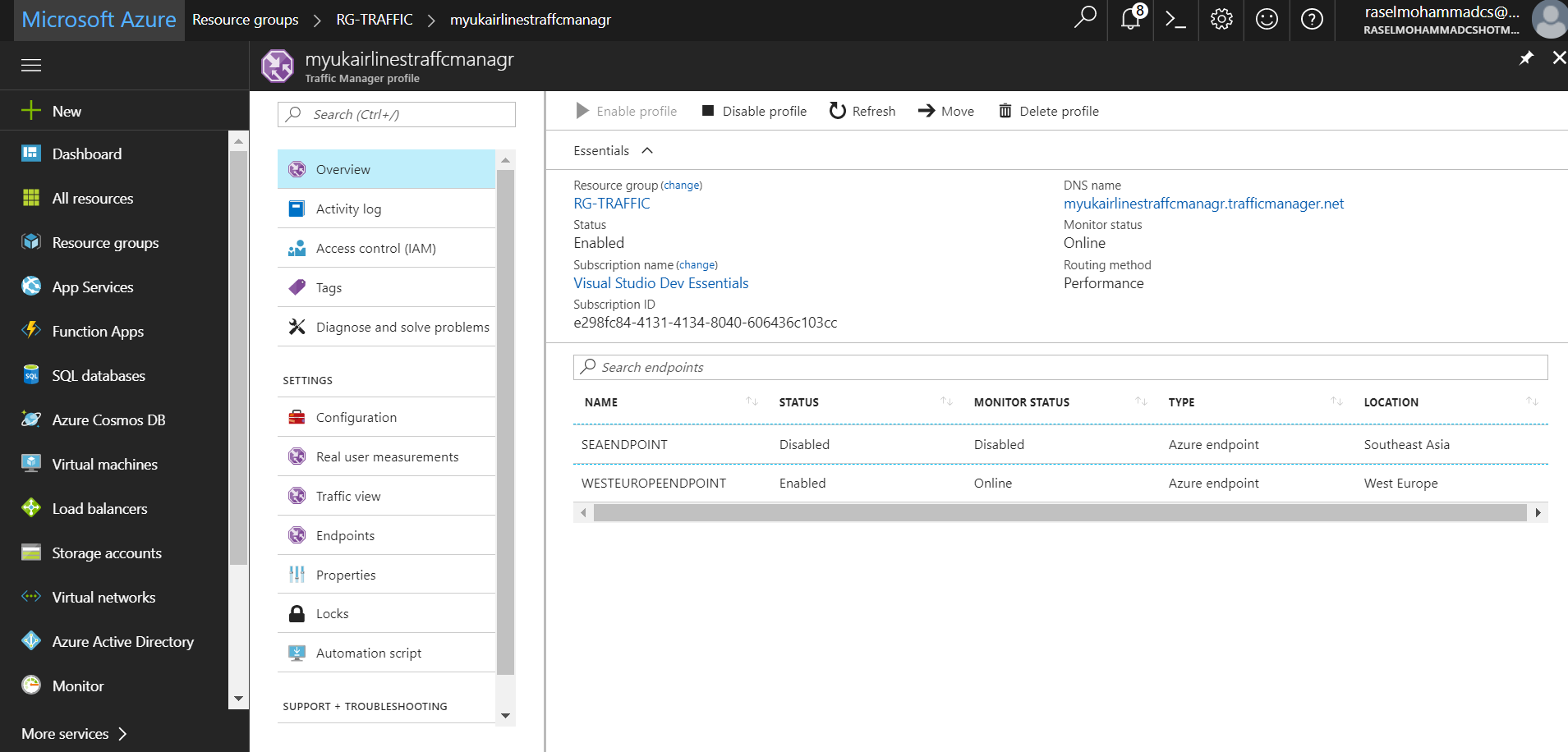


Figure 27 Disable South East Asia App Service End-Point

## 4.2 Azure App Service Plan

In this segment, we will talk about the arrangement that is accessible under purplish blue application benefit. Fundamentally, there are 6 sorts of plan that are exceptionally accessible for the designers the individuals who need to work under sky blue application benefit. They are:

* Free
* Shared
* Basic
* Standard
* Premium
* Isolated

Below showing the details for each of the plan:



Figure 29 Azure App Service Plan (Microsoft Azure, 2015)

### 4.2 (a) Free Tier

**Description**

The free tier is having very limited number of instances. The maximum instance is not available in this tier. The disk space is only 1GB and other services like custom domain, auto scaling, VPN Hybrid Connectivity, Network Isolation is not available. This tier is suitable for the beginners to get to know how azure app service works. Below showing the more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM5NQAAkpIAAgAAAAM5NQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 30 Azure Free App Service Plan (Microsoft Azure, 2015)

### 4.2 (b) Shared Tier

**Description**

The shared tier is having very limited number of instances. The maximum instance is not available in this tier. The disk space is only 1GB and other services like auto scaling, VPN Hybrid Connectivity, Network Isolation is not available. This tier support customer domain. Below showing the more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMxNQAAkpIAAgAAAAMxNQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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HM2Z9b0azs9WvNae986eCO6szBGIVEsip+6KqHG0uMbmbIBzyciDw94j1JdVuoddmWWzu9QuYLC4CBPKaORlEDY65VdysevzA84zqWnhKG2kthPqeo3tpZsHtrK5kQxxEfcOQgd9vbezY4PUAiwfDVi2i3mlyGZ4LyaWdmL4dHdzJlSAMFWOVPUYFD628/0/wCCJbWfl+v/AADlYbvXL7RvCl9/wkl/A+rvHFcJFBbbRmB3LLuhJBJQdyOTxWnZ+KPsGt6zp2qSalefY5okheHTJZ/lMEbHc0MRXJYscHHXoBitW28MWdrpui2KS3DR6M6vbszAs5WNkG/jnhz0xzirtppcNlfahdRNIXv5VllDEYUrGqDbx0wo655zRLrbz/T/AIIdb+Rj6Rr04+Gltr2oN5866d9qlO0LvYJu6AcZ9hWLd6nqdv4hj07Utc1iDZpkM7/2Xpi3G6V5JA2cQSbVG0AdOB3OTXVQ+H7WDwoPD6tI1oLQ2m5yC5QrtyeAM49qz08M3s1xFqEutXen6h9kS1nNgIXjlCMxVsSxMQTuJ46ZxzjJbtzX6f8ADh0/ruv+CV7i+voPFXlanqt5p1s00SWIW1jNtdKQMrJIUJWQtuXG5M/LtBOaS1g1ZfHFxYyeJdSltbe0huhE8NqN5aSQFSRCDtwg6EHrzWld+Gvt1zm71fUZbRpElexYxeU7IQRzs3gblBwGAz2wSKvrpcKa3NqgaTz5rdLZlyNoVGZgQMZzlz39Kl7f12/zDo/l+f8AkcTpPi3VhrGivqM4l0650mza6PlquyednCy5AHBZVXHQbwcVqJ4lurjx8trHKI9HiguUYlR+9liMe9s9cLvK8Y5Vs54xfh8G6ZFZyWrNPLFJpsemsHcf6uPdtbIAw3znn2GAKZP4I0yfTbWy826SK2s5bMFZBukSUqZCxIOWbZyf9pvwp76ef62+7+th6X8tP0/r/hylo97q2tRT217qNxp81wiahaSW0cW5YHyBEQ6MCVwMnGfmHNYyatrEPg/w5qF34h1R5NWniFw8FlDLJGphkYiNEgJOWVeqscDtzXW2ng/Q9O1SDUNJ06202aJHjb7FAkQlVgMq+F5AIBHuKjk8JW50PStNtb+9tBpLq9tcRGMyZVGTnejKeGP8NL/gf191hLrf+tP8zMafULzUtE0+z1/V4Ybm3uppbiayhiuJCjRhQySQAKBvbogzwea2PDt7eytqNhqUwuZ9NuRB9qEYTzlMaSKSBwGw+DjAyMgDOBFceF5riayuG8Q6ot5ZrKi3Spbb3WQqSGBh2fwDGFB+tWbLRn0o2sOnzt5HmvNeSTNvluXK4yxI7nnjGNoAGOA1/X3/AOQEettr4vrT+xBEbcHM+9FPfbjlgSPm3YG3/Vn5udp5nR/Ed7c+KFt0137fM2pXlvc6XthP2W3RnCS/KodcFUGXJB3+uK9Aqnpulw6VbzQ27SMs1xLcMXIJDSOXYDAHGWOKnWwPb+vM4PSPEOoT+BbvVm1vWZ9QTSJbnZc6WsVskgTIZH8hQ2D0G9gRnrWv4V1S8vtbMMWq3+o2qWoe7GpWa20kEpI8vYoijYqw35JBHyjB6g3LTwYLXQ5NHbXdUuNOe0e0FvKLcBEZduQyxBsgdMk++a1W0WA6pZX6SSxT2kTQZQriaM4+R8jkAgMMYII9CQa0vf8Arr/X9WCWu39bGhRWdd6R9rupZv7Rv4PMWJfLhm2qvlyb8gY4LZ2t6rxViwsvsEDxfabi53SvLvuJN7DcxbaD/dGcAdgBSAs1Nbf6w/Soamtv9YfpQBZooooAieDe5bdjPtTfs3+3+lcZ/wAJHqv/AD9f+Q1/wo/4SPVf+fr/AMhr/hQB2f2b/b/Sj7N/t/pXGf8ACR6r/wA/X/kNf8KP+Ej1X/n6/wDIa/4UAdn9m/2/0o+zf7f6Vxn/AAkeq/8AP1/5DX/Cj/hI9V/5+v8AyGv+FAHZ/Zv9v9KPs3+3+lcZ/wAJHqv/AD9f+Q1/wo/4SPVf+fr/AMhr/hQB2f2b/b/Sj7N/t/pXGf8ACR6r/wA/X/kNf8KP+Ej1X/n6/wDIa/4UAdn9m/2/0o+zf7f6Vxn/AAkeq/8AP1/5DX/Cj/hI9V/5+v8AyGv+FAHZ/Zv9v9KPs3+3+lcZ/wAJHqv/AD9f+Q1/wo/4SPVf+fr/AMhr/hQB2f2b/b/Sj7N/t/pXGf8ACR6r/wA/X/kNf8KP+Ej1X/n6/wDIa/4UAdn9m/2/0o+zf7f6Vxn/AAkeq/8AP1/5DX/Cj/hI9V/5+v8AyGv+FAHZ/Zv9v9KPs3+3+lcZ/wAJHqv/AD9f+Q1/wo/4SPVf+fr/AMhr/hQB2f2b/b/Sj7N/t/pXGf8ACR6r/wA/X/kNf8KP+Ej1X/n6/wDIa/4UAdn9m/2/0o+zf7f6Vxn/AAkeq/8AP1/5DX/Cj/hI9V/5+v8AyGv+FAHZ/Zv9v9KPs3+3+lcZ/wAJHqv/AD9f+Q1/wo/4SPVf+fr/AMhr/hQB2f2b/b/Snxw+W2d2eMdK4n/hI9V/5+v/ACGv+FH/AAkeq/8AP1/5DX/CgDuqK4X/AISPVf8An6/8hr/hRQB//9k=)

Figure 31 Azure Shared App Service Plan (Microsoft Azure, 2015)

### 4.2 (c) Basic Tier

**Description**

The maximum instance that the user can create under this tier is up to 3. The disk space is larger compare to other two tiers (free & shared) which is 10GB. This service plan allows users to connect their customer domain. The core is based on the basic levels such as B1, B2 & B3 Below showing the more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAMzNgAAkpIAAgAAAAMzNgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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jILMuz2Mee5rbl8LR2+g6faaVNIl1pCZsJ5GAO4IV2udp+VgcNgdORggGrEHhy2jsdIt2klJ0uUTo4IzLJsZWZuOc72J6c1T30/rUb6mJ4k8XS/ZdMPh2YEXDW1zNMFB2W8kyRgYOcFyx/BG6HmrNs2s+IPt1/Za1JpyQXMtva20dvE8beU5QtLuUudzKeFZPlx35q1H4L0qG1vYIfPRb28S8kIcEqySCRUXI4TcCdv+02OtOuPCcUt1cva6pqNhb3j77q0tZEWOZj945KF0LDqUZfXrzS6af1t+Wof1/X9eRzsXjDVpNVtNUAB0caPbXl7ZrGC0XmtJumVsbjs2DK91yRyBmfVtT1O5sPFd3p+t3Fqukgy2n2eOBldfsqSAMXjbI3Engg89eldTaaJZ2OpNeWqtGTaRWawrgRpHGWK4GP9sjr2FZ1n4K0yw0nWNNtpLlbbVy/mqZAfJDIE2x5HyqFAwDnH04oet7ef5hGykm/L8jPk1i68P6vosGoajqOpQXltcSy4sRNIWHk7flgiBCjc3OO/J6Vo+Gtbk1rUtcO6f7Nb3aR26T2zQOimGNiCrqrfeLHkd+OMVonSIG1Oxvi8nm2UEkEYyNpV9mSeOv7senen2emQ2V9f3cTSGS/lWWUMRgFY1QY46YQdc85p6X+/8/8AIlXsjj9Y1/UfJguU1G8s7W61p7JRY2izyLFGkoJVTG5Ys8eTwcADGOSbV9e6hFp+nyx6pra6YwlN1fjTU+1owI2B4mh4T73IizwpJAyTdk8KSTl4jfTWcUOoNqFnPalDIjuH3qyyIy4zIxB9+2Mm5JoN5JDCo8S6tHNGGDTqtvukBIOGUw7OMcEKD7mp6f12Ke+n9av9DG1f+0vN0GTTvFd4YNSuEgZ7eK1aN18l38xCYm5YoD1I5OB0xS1rXdfsJpINNuWuprfWY7dUkjj3XEQshM0ZwoALMDyAME8YHFdUnhyxitNJtofNji0mUS26hs5IRk+YkHPDk9uabJ4bs5NS+2tJP5v25b7AYbfMEHk46fd28+ue/aq6/wBd1/wRf5fjr/wDD8SeLpfsumHw7MCLhra5mmCg7LeSZIwMHOC5Y/gjdDzVqbWb5/FUkSTmLSjJ/ZoZEXclwY/M8wEg9OEweMnpVmPwXpUNrewQ+ei3t4l5IQ4JVkkEiouRwm4E7f8AabHWoT8PvDxt2zYxG9MxuP7S8mP7UJPM8zf5m3rn9OKWn9fL/g/PUOn9f1v+Ghjy3Gt2Nr4tuD4kv7g6NE/2ZJYLbBP2VZAzbYQSQzcYIHAyDzlZNWvU8LT3FlruuSXLy2kfm3+mJb+V5kyKxj3W6BuGPXcBx+PTz+HLS4t9aheScLrQIuCGGUzEIvk44+VQec8/lVSXwpJc6TLp974g1S5iYxNGzrbK0LRuHUrthAPKj7wIoXn5f8Eb6W/rYrSf21Y6sdGGtT3f26zlntruaCHzbeSMoCDtRUZDvH8ORg88jG7o2of2todjqGzYbqBJSmfullBI/DpWemg3FjHd3lrey6jrEsPlRXOouoCL2XbGgUDPJwuWOMnpjT0uwj0rSbTT4CzRWsKQoW6kKAMn8qfT+vP/AIAv6/IvQf65akuf4fxqOD/XLUlz/D+NICvRRRQAUUUUAFYPjW91Cw8LTTaPOtvetPBFFKyBgu+ZEOQQR0Y1vVT1XTIdXsfsly0ix+bFLmMgHMciuOoPGVGfagaOV1/xlcr4HF1pK+Rq00E7MhAY2rQqTMSDkHay7eeMsvUVLNrOrx350QTsbzUTHNYXXlKRHCQPOyMYymDjI58xBzzWnP4P0ue41mc+ckmsW5t5yr8IpXaxQEYUngn1Kir50iBtTsb4vJ5tlBJBGMjaVfZknjr+7Hp3oW93/X9aee4n2X9bf8E4my8Qanc6yYYdZv5L1tXmt47GexRLR4EmIYCXygSyxgniQnI6HkVpeLtZ1eNb8aDdra/YjbW5cxq4aeaaMYOQfuxn8fN9QK2ZPC1k+kzWAlnQSXj3qTqy+ZDM0hk3ISuBhjxkHjg55qO38Nibw/8AYtVlJuJ7lby5kgb70okWTAJHKgqqjIztA6ULZf12/wCCN7t/1uY+v+MrlfA4utJXyNWmgnZkIDG1aFSZiQcg7WXbzxll6irtvNqfiHUryG31e40uDTxHETbQxM80rRrIWbzEYBQHUAADndyeMW5/B+lz3Gsznzkk1i3NvOVfhFK7WKAjCk8E+pUU668LpJeG607VL/SppIlina0MR88KMKWEiMNwHG4AHHGeBg/r+vIXb+u39f8ADnOTeJPEcl1pH2IxzSw/bhfWkcQAvfs8qR/IW5QkEsBnGcKfUakepz+Itdmg0rWbi1sG023u4ZbWOItlpJQ2fMRuoVQQRkFe3Na1r4csLK6sJ7USR/YIZYok37gwkKs7MTlmYlAck8kknOaZp3hix0vX9R1a0aZZdQVRLEXzGmCxJRcfKSWYnnBJJ6k0nt9/6h0/ructYa7qmn+GvDOrajq9/f8A9qXEYuUFnHIQpgkYqiQxBvvBT3PHXGa3dI8Qtq/jC+tYDdJZw2MEixXVlJbsJGeQMQJEViCFX24+tXLfwzZ22n6NZpLOY9HdXtyWGWIjZBu454c9Mc4q4mmQprk2qhpPPmt0t2UkbQqMzAgYznLnv6Vbtf7/AMge2nl+f+Ry/ibXdRgt9ansryW0hsLi0s1MEKyuWkeIyOAUbJCSBQADzngnGHy3mpf2Gkum6lrt1F9rC3dxPpax3cMW3OYomhQMN23PyOcFsAkcaGoeGG1C41KJrhoLTUHguDJCwE0U8RTBAZWUgiNOv93oc8WDoV41qI28S6sZlk3rcBbcOBjBXaIdhHOeVJz0IqVt/Xl/wfkMwtXuL4+FLbU9H8WX0g8+GDzUgtv3ge4VG3q0PDqGK4G3BXlc5qPxDqWuaTFqNlYatJLcQ29h5NxcxRFt8108bFgqBfugDp29ea6EeF7P+w/7Mea4dWuVupJ2ZfMllEolLHC7eWHIAAxwMU7UfDdnqd1PPcSTq062ysEYADyJTKmMjuzEH26Y60/8/wDL/gi6f13/AMjA1/xlcr4HF1pK+Rq00E7MhAY2rQqTMSDkHay7eeMsvUVa1DX76DVbRoJB9hs4oX1EbB8/nNsXntswXOO2KvT+D9LnuNZnPnJJrFubecq/CKV2sUBGFJ4J9SoqGbwB4cu1vG1HTYL6e8J33NzCjyoNgQBG25UAKMeh5pef9egeX9dNStawasvji4sZPEupS2tvaQ3QieG1G8tJICpIhB24QdCD15rE0jxDqE/ga71Ztb1mfUE0iW52XOlrFbJIEyGR/IUNg9BvYEZ6129posNpqJvhNPLO1pFaM0jA7ljLEMcAfMS5z29hWXaeDBa6HLoza7qlxpz2j2gt5RbgIjLtyGWINkDpkn3zS6Nf11/4BSa5rvy/4JCratpV5pSza1dajb6qxt3E8MIkgcxPIHQxoox8hBDBux7EHX8O309/oqNeMHuYZZLaZwMb3jdkLYHTO3OPeq9n4c+xXCXk+oXmrXVtEUtPtrxokORg4EUajJ4BYhiB06kG5oWnSaXpEcE7q9wzvNOyfdMkjl32+25jj2xVOxCvZf1/XQ0o/wDWL9RV2qUf+sX6irtIZh+JP+Xb/gf9KKPEn/Lt/wAD/pRQBuVUn/1zUUUAR0UUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUATW3+sP0ouf9YPpRRQBDRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQBJB/rlqS5/h/GiigCvRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQAUUUUAFFFFABRRRQA6P8A1i/UVdoooAw/En/Lt/wP+lFFFAH/2Q==)

Figure 32 Azure Basic App Service Plan (Microsoft Azure, 2015)

### 4.2 (d) Standard Tier

**Description**

The maximum instance user can create is up to 10. The disk space is 5 times larger than basic tier which 50GB. This plan allows users to connect their own domain. The core is based on 3 levels which are S1, S2 & S3 respectively. The pricing is also different compare to the levels of tiers. Below showing more details:

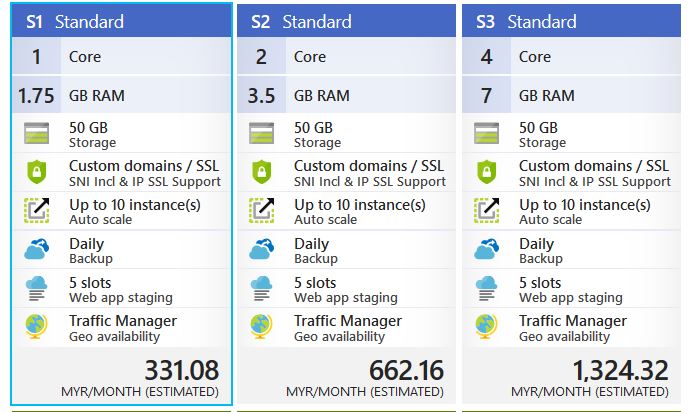


Figure 33 Azure Standard App Service Plan (Microsoft Azure, 2015)

### 4.2 (e) Premium Tier

**Description**

The maximum instance user can create is up to 20. The disk space is 250GB. This plan allows users to connect their own domain. The core is based on 3 levels which are P1, P2 & P3 respectively. The pricing is also different compare to the levels of tiers. Below showing more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM2NAAAkpIAAgAAAAM2NAAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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M4xxmt3XrG4l8MCK3TzZ7VoJ1jX/loYpFcqPUnZge5FLpr5f8Eb308/+AV7XXNavdavLK20mw8qxliiuJZNRdWy0aO21RCQwG/AyRnHanafr+pardXJsNNtGs4J5bYvJfkTLImR88YjIUEgfxE7WB29qy18NzSeLLvWv+Ef0TUEvJ4biC6vnaO5tgsaLgKYGIIKkgbhz6Grp0XVLnxVbalPa6baG3lbffWkz+fdQ4YLE6FAMcqeXYArwOcg7X/r+v6uLpp/X9f1YgHizWok1uW90SwSLRY2acxam7s7CESgKDAOCGAJJGOeD3v6d4pjvvFmo6FJbGCS0VGilL5E4KIz4GBgr5icZOc5qK78O3c9n4riSSENrKkW5LHCZt1i+fjj5lJ4zx+VVL7wpqTy6ne6ddW9vqL3kV1YTOCypiBInVxjoQG4GeoPUUf5fjoP+vy/4JftfF1rc65q9l5e220uASyXRfh+XDgDHRShGc9QeOOacvi7UW8Jz6zaaPAXskle9tLm9aJ4gq7wAREwYlSDg4xkc1Vu/A11tks9Nu0gs57G2spZS2ZiqSyPK2CpUs4fv3Zs+9ifwnqYt9ft49We+j1fT2i33ojRkn2lAf3UajaVIBOCflHWl0/r+tQVuby0/QnfxDry3WnWa6LpxvL6KWYKdTkEaInl/wAXkZLHzOm3Ax15qSfXdc/tg6ZY6PYTXEVlHdT+ZqTxqC7OuxCITu+4eSF69Kq+I/DFxql9o9wNK0nV4rG3likttSkKoWfy8Mv7qTkbD2HWlXS9esNZF9pOm6OiSabDaG2N7JGlu0bSH5NsPzLhxj7vTtVafn+v/AEvh13/AOCi/YeJ0v57AfZHgivPNizI43xXEZO6JlGR0V/mBI+X3BO7XKw6NNaXmiaeC88lvdTaleXYhKRs7rICB1AJebIXJIVTn36qgC1bf6s/Wq8n+sb6mrFt/qz9aryf6xvqaQDaKKKACiiigArCn8UR23jeHw9NblRNarNHdb+DIS+I8Y4O2NiDntjFbtc1rPhifVNWv7uOaOIy2UEdpJyWhuIpJJFcjHTLL35GRR1H0f8AXUTVPGBs/EEuk6fp7X88NnJcPtl2/Mmw+UBg5Yq4PbqvrkN1LxmIbd59Hs49QhEVs4la48tC08ipGuQrHo24nHA28HPBpPhi7sdU0u+uJoZZ4obpr6RcgyzzNGxKjH3RsIGTwAoqu3gpj4SvdHEdmRdap9rZGBMbRfaVkCkY6+WoXGMcAdOaO1/61/y/IWm/9f1/ma+k61d3WpXunarZQ2lzaRxys1tcmeIo+7HzFEIb5DkEdCDk54zdO8cJe+IrTTJrE28V7bfaLa4Mu4Pl5PLUjaMFo4i/X27ZqC88O3GlC50rw/bxw6RrDLG8UClfsbt/rXUBcKrRg9xhwMA7uLeq+FZb/Ur24glitw1jbxWbDO6CeGSR1bGPugsvfkZFHn/X9dg6Nf1uv+DcmvPGFpZeJpNKkT91b2ct1c3W/iLYFYpjHJ2uGPIwCOueGxeI9TjFrdapoqWmnXkqRxyLd+ZNEZCBH5sewBckgHa7YJHUZIoL4IluEtk1GeKQzWd5HqMsZIaSa48vLICPujaQM9AFFWhpXiHUoLTTtb/s5bO2ljllubeV3kujE4ZB5bIBHkqCfmfoQOuQ10v/AFq7/gD2uv67E+geLU1nU9QsJ7RrOe1nmSANJuFzFHIY2kU4GMMMFeoyvYis8eMNansdFvLPRLB4dYKJD5upujI7RtIQwEBGBsIyCc8cCrA8K3I0adEmhi1KLULi+sbhclY2kkZlDdCQVbaw9CcdjRYeGb620HwrZyy25m0eVHuCrNtbEMiHZxzy4644zSW2vl/wRvd287foaulavLf3eo2txbJBLp8qRPslLqzNEkhwSo4G/HTnGeM4pNL12K/8J2+u3Ef2aGS1Fy6bt/lrt3HnAzge1Zy+CdLu9d1jUNb0rTNQa8mR4HntlldEWJEwSy8fMpOB60+18O3EPw1Hh2R4vtA002haMnZu2FcjI6Z9qT+Fv0/4IJK6RFH4k1u81GOzsNEs/NNlHeSC61B4tgkZwq/LC2ThMnpgnHOM1aj16/uteubCw062kjsZI47tpL3ZKu9Q25Iwh3Lg8FmXJDADjnDvPD9zrmsQ61L4b0jUkk0+K3NvrDNFJbyI7lsAwycHcBkYzjIyMGtHV9F1bVdUtpPselwfZ5o3g1OOdxcwICpeML5eGDYZT84BDcrxg11/ruT0+78v8yS313XpPE0mkzaNpqCGGO4kmTU5GxG7MowvkDLfIeMgdOah0vxzHf61pdhNZG3GpadFeRy+buCyPvIi+6OdsbEHvjpWtHpcyeLbvVC0fkTWMVsq5O4MjyMSRjGMOO/rXO2/gi9WwWKW4gSeHSLS1gmjLHyrmBnYPyB8uWX3IyCKS21/rf8A4BT628rfh/wTcPiaJvGieH4YfMb7O8ss+/AjZdh2YxydrqTyMAjrnivYeJrvWLa7OkadA08Eo8uO7umiWaA52zBljbG4q2Bjt1rNfwjq8cFtNZ3dsNSNpdrdXLFhm4uDGS6jB+VdhAB7BR9L2l+FbvRdYtLi21e4vbVLQ2csV2sSlUXBj2eXGucHI+Y9GP4p3t5/8P8A8D7xef8AX9dfUq23jDWbnRdJvholgr6vMkdrEdTfADRu5Lt5Hy4CYwA2c9Rir13rmuW97p2nppGnvf3kc0rqdSdYo1jKDh/IJYneP4RjHes278H3kng3w7pb2umalJpUkb3FveSEQTBYnQjPlt3YEZXtUw0TWLO70i80nRtEtPsUNzC9hFePHCokaMhlZYP9gkjaOvU1Wl36/p/mN7r+u5et/FLuIhd2H2aSO9FjfIZgxt5GAMZXA+dGLJg/KcMMgcgdDXI3Gj3iWiwXOJ9R1bU4bu5lt4m8mBYjG2N3YBIgoJwWY5wOg66jp/XZfrcXUsW38X4VPUFt/F+FT0gEcZRgOpFVfIk/u/rWL471e90bQobjTZvJla5VC2xWyu1jjkHuBXAf8J54k/6CP/kCP/4mvRw+XVcRT9pBq3nf/I8LHZ5hsFW9jUjJvyS/zR6z5En939aPIk/u/rXk3/CeeJP+gj/5Aj/+Jo/4TzxJ/wBBH/yBH/8AE10f2NiO6/H/ACOL/WnBfyy+5f8AyR6z5En939aPIk/u/rXk3/CeeJP+gj/5Aj/+Jo/4TzxJ/wBBH/yBH/8AE0f2NiO6/H/IP9acF/LL7l/8kes+RJ/d/WjyJP7v615N/wAJ54k/6CP/AJAj/wDiaP8AhPPEn/QR/wDIEf8A8TR/Y2I7r8f8g/1pwX8svuX/AMkes+RJ/d/WjyJP7v615N/wnniT/oI/+QI//iaP+E88Sf8AQR/8gR//ABNH9jYjuvx/yD/WnBfyy+5f/JHrPkSf3f1o8iT+7+teTf8ACeeJP+gj/wCQI/8A4mj/AITzxJ/0Ef8AyBH/APE0f2NiO6/H/IP9acF/LL7l/wDJHrPkSf3f1o8iT+7+teTf8J54k/6CP/kCP/4mj/hPPEn/AEEf/IEf/wATR/Y2I7r8f8g/1pwX8svuX/yR6z5En939aPIk/u/rXk3/AAnniT/oI/8AkCP/AOJo/wCE88Sf9BH/AMgR/wDxNH9jYjuvx/yD/WnBfyy+5f8AyR6z5En939aPIk/u/rXk3/CeeJP+gj/5Aj/+Jo/4TzxJ/wBBH/yBH/8AE0f2NiO6/H/IP9acF/LL7l/8kes+RJ/d/WjyJP7v615N/wAJ54k/6CP/AJAj/wDiaP8AhPPEn/QR/wDIEf8A8TR/Y2I7r8f8g/1pwX8svuX/AMkes+RJ/d/WjyJP7v615N/wnniT/oI/+QI//iaP+E88Sf8AQR/8gR//ABNH9jYjuvx/yD/WnBfyy+5f/JHrPkSf3f1o8iT+7+teTf8ACeeJP+gj/wCQI/8A4mj/AITzxJ/0Ef8AyBH/APE0f2NiO6/H/IP9acF/LL7l/wDJHrPkSf3f1o8iT+7+teTf8J54k/6CP/kCP/4mj/hPPEn/AEEf/IEf/wATR/Y2I7r8f8g/1pwX8svuX/yR6z5En939aPIk/u/rXk3/AAnniT/oI/8AkCP/AOJo/wCE88Sf9BH/AMgR/wDxNH9jYjuvx/yD/WnBfyy+5f8AyR7DEpWMBuDVfyJP7v61zHw/17Utb/tD+1Lnz/J8vZ+7VcZ3Z+6B6CuyrzK9GVCo6ct0fQYPFQxlCNemmk7776OxU8iT+7+tHkSf3f1q3RWJ1FTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAFTyJP7v60eRJ/d/WrdFAEcClEIYYOaheFy7ELwT61aooAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAqeRJ/d/WjyJP7v61booAigRk3bhjNS0UUAf//Z)

Figure 34 Azure App Service Premium Plan (Microsoft Azure, 2015)

### 4.2 (f) Premium V Tier

**Description**

The maximum instance user can create is up to 20. The disk space is 250GB. This plan allows users to connect their own domain. The core is based on 3 levels which are P1V2, P2V2 & P3V3 respectively. The pricing is also different compare to the levels of tiers. Below showing more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM3NgAAkpIAAgAAAAM3NgAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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D+z6vdf18j6K+zf7f6UfZv9v9K+df8Aha/jT/oM/wDkrD/8RR/wtfxp/wBBn/yVh/8AiKP7Nrd1+P8AkH9n1e6/r5H0V9m/2/0p8cPltndnjHSvnL/ha/jT/oM/+SsP/wARXb/Crxt4g8SeKrmz1rUPtMCWTSqnkxphg6AHKqD0Y1nUwFWnBzbWn9diKmDqQi5NrQ9aooorgOI//9k=)

Figure 35 Azure App Service Premium V Plan (Microsoft Azure, 2015)

### 4.2 (g) Isolated Tier

**Description**

The maximum instance user can create is up to 100. The disk space is 1TB. This plan allows users to connect their own domain. The core is based on 3 levels which are I1, I2 & I3 respectively. The pricing is also different compare to the levels of tiers. Below showing more details:

![A screenshot of a cell phone

Description generated with very high confidence](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAeAB4AAD/4RDuRXhpZgAATU0AKgAAAAgABAE7AAIAAAAMAAAISodpAAQAAAABAAAIVpydAAEAAAAYAAAQzuocAAcAAAgMAAAAPgAAAAAc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAG1hcnVmIGhhc2FuAAAFkAMAAgAAABQAABCkkAQAAgAAABQAABC4kpEAAgAAAAM1MQAAkpIAAgAAAAM1MQAA6hwABwAACAwAAAiYAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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NpqOsf2cbO4miiltYInWW181wqnzS5EmCyg/ImeSOmC6HwVbrHZRXNw1xHFaXNvdbkw101wVMkhIPyklScf7XbFPg8Oam4tbXVtaS806zkSSOJLTy5ZSjAx+bJvIbBAJ2qmSB2yC1pa/wDWrv8AgD1X9fIg8PeK7q+1e9sdXghg3XdxHp80WdsyRSFGRsn/AFg27sDgqcjocUI/EHia70zw7fW13pMK600cZjk0+VzExidy2ROMjKYxgdepxzsnwpG2h3Vg10wlkvJr23ukjAa2leRpFZck5KlsejDIIwSKSz8Km10fw7Ym98w6LIjmTyseftiePpn5fv579MUltr5f8Eb3dvP/AIBWt/GthZatqmm+I9Y0mznspI0j8yZYDKDCjltruTjczAewxz1q7pPiE3HgO38Q6gqLusftcywjC8JuO3JP86uWGk/YdS1W787f/aM6S7NmPL2xJHjOefuZ7daqweGxD4FHhxrjzALE2nn7Nufk27sZOPXrSfwvvp/wQVrrsYOpeJvEVj9okY6ZELDSo9RuYZLdyZCzyZiV/MAUgIACVbLHOB0qYeLJ5vF93pkmu6HpiQXEMcVneQk3M4eNHOD5y8kuVGFPTvV+08MwahrEGva9YW73yWkUCwzwpKbeSN3YyI/OMlgRjB4GeeBKmiavaa/f32napZR21/PHNLBPYPI67Y1QgOJlHITPKnGe9Vpf7/z/AMien9dl+tzCtPGWo3OrSww3+j3UsepvaHSIYW+1iJZjH5hbzTjC/OSUAwMZGc11Wq6jNY3ukwwqhW9uzBIWByFEMj5HPXKD8M1nHwnt01ooLwR3qahLf2t35WfJZ5C5UruG5SGKEZGQT07amoaZ9vutNmM3lmxuTPjZnfmJ48deP9Znv0qdeW3X/gIp7v5/rb9DlNI8c3914Jvb7Ura3g1eDTX1CGNA3kzx7SysuTng4VhnIPfDA1oQ6/qV14l+wfatNsAvlmO0uYHMt6hQM7xPvUcZYYCvgrzjIpl/4ES98DWugpqDQXVpbfZ4tQSEbgCuxxsJ5VlJBXPoeoBq1f8AhzUdRaK2uNUt202OaGZYvsX79DGVYBZd+B8y9dhOCRnoRWnN/X3iltp5/oQ2174kPi6bTLnUdJa2t7aK6dk06RWZXd1KgmcgEBPvYPXpxUEPjC8k8Oa3fvbwxz2to9/YqQdskBVjEW5zklDnGOCK09U8OSaheancQ37WzX+npY5WPJjAZyWByOSJCB6Yzz0rPuvh/aGKVNMvry1E1hNYSLcXM10pjdcLgSSHbtIB468j3E62t/XX/gfiUrc33fp/wRF8XXY8NNNPbww6va3FtBd25yU/eyovmJyCUZWJU+oweQRV621DWtYu5rjSpLC3063uGgC3ELySXJjYrIQyuojG4Mo4fpnvio9f8IJrS6e8N41ncWjxeZKkYb7REjq/lsM9NyAg9Qc+pBnh0PU7C/mOlatDDp9xOZ5Lae08x0Zmy/lyB1Cgkk/MrYJPbgVpf+vL/gkK/KZOj+KLrVdburNvEGgQTR3lzbx6aYCbkiNmVSf34J4UMfk6Z6da6PQtRk1TR4ridFSdWeGdU+6JI3KPjPONynGe2KzdN0fWdGnufJ1GzuLGS6nuvswsGE58x2fYJDMFzk4yVq94dsZ7DR1W8UJczyy3MyA52NI7OUz327tufakthvd27/h/VjWj/wBYv1FWLn/Vj61Xj/1i/UVYuf8AVj60AVaKKKACua8SeJ59A8QaPB5Mb2FysrXkhB3RKrRqrDnGAZAWyDwM8YrpaytS0GHVNWtrq6ZXhitbi1kt2TIlWXZnnPHCYxjnNHUZna54mubTxNpujaYkLPcSbLmWVSwi3RyNGBgjkmMk+w9wRQn8aXz6NPNZQW63mnWFxcalHKGYQyxhlWMYIPzOrEHuq+4NXtP8GCxt9OD6jLdXFrf/AGya5mjBe4xE0SqcHjCFRnn7vTmrFx4XWe28SRLchDrqkFhF/qcwLF6/N93Pbrj3pPZ/1/XX7hq3Mr/1rqU/DXiO81XVEg/tHStZtXtjLJc6XEUW1kBXEbnzJASwYkcgjaeDnind+N7201mwZreA6PdTXAaUK3mJDG0UYlznGPMdmJx9zB9TWnq+h30TLfeH5hFetbiznGwYlU4CyHLABo8lgeSRuXHIxYk8K2ck+nr8v2KysJrH7KyZEkcgjHJz2EePfNV1v/XX/gER21K+seJ5LLxXpekWkcbpNKFvJHBPlBkkZAMH7x8tjznAHTkEU/8AhINdfw+/ieNbD+yVjNyti0T+e1uBnf52/aGK/MF2Y6Ln+KrGn+CxY2+nrJqMl1cWt99smuZowXuMRNEqnB4wjKM8/d6c0i+Eb1NPbRV1hBoDZT7N9lP2gRHrD52/G3tnZu28Zz81JFf1+Y218W3I8ZX2n38MK6WJ4ra0u485ErRJJtkycfNvwpGORg8kZqX3iLxCdFn1Kwn0yFIdTaxMU1lJIWH2ryVbcJlxgEEjHJB6Z43B4atpG1pLxhPBq0iO0e3b5W2JEGDnrlNwPBBx6ZqjaeD5oPCf9j3OqtdTNfC8e7eAKXP2gTEFQcZOMZHrnHahdL+X6X/UXQQ+LI9G8RPpXinV9JtttlHcLO5FqJXaSRSAryNwAq8ZPJPrgaPhjW/7f0qa+DwSRC7uIopLc5R40kZVYHJzkAHI4qxHpXl+JbjVvOz51pFbeVs+7sd23Zz334xjtSaPpI0qzuIDL5wnup7gnZtx5kjPt6npuxnvRrb+u4Py8vy/zOcbxJrl+2mf2dLptmmo291eRvd2zyBYYzH5YO2ReSH3E9BkDHGTUbx3cXF5ZK+saJ4fiudLgvQNUjLs7yM4KqfOj4G0dj1rQs/BkF7FpMfiCzt7mLRoZrSOG5hSZJ1JTZKMk7SFTGCM5J7cnRvdE1X/AISKTVdG1KztTLaR2zxXVi04wjOwIKypj7+Mc9KNFb+u/wDwB9P67r/gmDqfjLUbbXNWs7bUtF86weNbbS5IGNzfZiR8IRLkZLFQQjY75wa6nW9Sm03S4rmGNPMe5toSsnIAkmRG6HqAxx71Sm8Kx3UesC6ucvqU0c6SRx7WtpEiRFdDk8gpuH5c97t/pc2paPb2l1dJ58ctvNJMkWFdopEkOF3HAJTHU4z3prpfy/4P9fcIyPD3iu6vtXvbHV4IYN13cR6fNFnbMkUhRkbJ/wBYNu7A4KnI6HFCz8XatqMOkZudL0p7+yinSS8t5HjupnJBhjPmKFYYHBLMd2QODnZPhSNtDurBrphLJeTXtvdJGA1tK8jSKy5JyVLY9GGQRgkVS/4Q/Ul8LweH01m1fTxZLaXAn07e7YBBdCJAFJH94OAQD7Ult936jdrv+upJf3niWLxXaabbahpSQXkU8yGTTpHaNYyg2kicBifM64HTpzVnS/EU974gu7OaKNLQ+YLGVc5lMTBJt3P94jGOwNWrrRHl1Syvre7Mb2dpNboHTfkybMMTkdPL6d89RWXZeA7XTf7Llsr++F1YOGaSa7mlSUFSJB5bOVXdknIHBpdLf1/S0F08/wCvzM/SPHN/deCb2+1K2t4NXg019QhjQN5M8e0srLk54OFYZyD3wwNa41PWdXvZ4NDlsLWOzVFuJ7qB5t8rIr7FRXTaArKdxJ5OMcZqrf8AgRL3wNa6CmoNBdWlt9ni1BIRuAK7HGwnlWUkFc+h6gGrzaDqVpfyXOharDai5VBcxXVmZ0Z1UKHTEiFW2qAclhwOBzmna7/r+v8APyG/L+tv+CZY8U3LeMLzSrjXtB037PcQxR2dzEWnuN8aMdpMy9SxUfIeneuh0XUJ7wXsF6I/tVlctBIYlKqwwHVgCSRlHXPPXNUIdD1iy1y+vLDVrMW99NHLLFcWDSSZWNIzh1lUDITP3eCe9W9CtLiKTUb29iME1/dGUQswYxoqLGoJBIyQm7g8bsUL9Px0/wCCI1qv1Qq/SAKKKKACoZYmkcEEdO9TUUAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBBHAySBiRgU+aMyY2449akooArfZn9Vo+zP6rVmigCt9mf1Wj7M/qtWaKAK32Z/VaPsz+q1ZooArfZn9Vo+zP6rVmigCt9mf1Wj7M/qtWaKAK32Z/VaPsz+q1ZooArfZn9Vo+zP6rVmigCt9mf1Wj7M/qtWaKAK32Z/VaPsz+q1ZooArfZn9Vo+zP6rVmigCt9mf1Wj7M/qtWaKAK32Z/VaPsz+q1ZooArfZn9Vo+zP6rVmigCutuyuCSODUsqGRABjr3p9FAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q0fZn9VqzRQBW+zP6rR9mf1WrNFAFb7M/qtH2Z/Vas0UAVvsz+q1ZoooAKKKKAP/2Q==)

Figure 36 Azure App Service Isolated Plan (Microsoft Azure, 2015)

## 4.3 Azure SQL Database Service Plan

In this section, we are going to discuss about the plan that are available under azure sql database service. Basically, there are 4 types of plan that are highly available for the developers those who want to work under azure app service. They are:

* Basic Plan
* Standard Plan
* Premium Plan
* Premium RS

Below showing the details for each of the plan:

### 4.3 (a) Basic Plan

**Description**

The maximum DTU (Data Transaction Unit) for this plan is 5. The included storage capacity that are available under this service plan is only 2GB. The maximum storage capacity is 2GB. This service is suitable for the testing purpose.

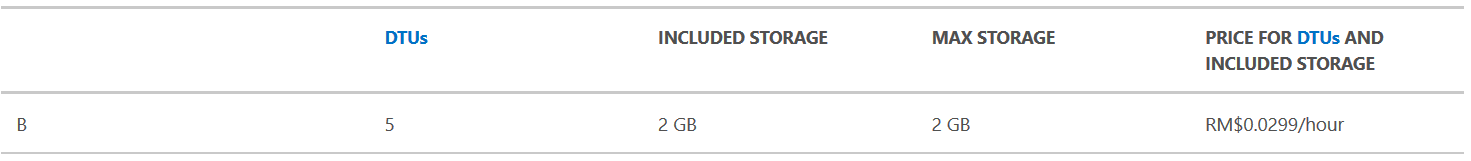


Figure 37 Azure SQL Database Service Basic Plan (Microsoft Azure, 2015)

### 4.3 (b) Standard Plan

**Description**

The standard service plan is divided into 9 categories which are S0, S1, S2, S3, S4, S6, S7 & S9 respectively. Based on the categories the DTU (Data Transaction Unit), Included Storage & Maximum Storage differs. On the other hand, the pricing for the sql database service per hour become expensive based on the categories. Below showing more details:

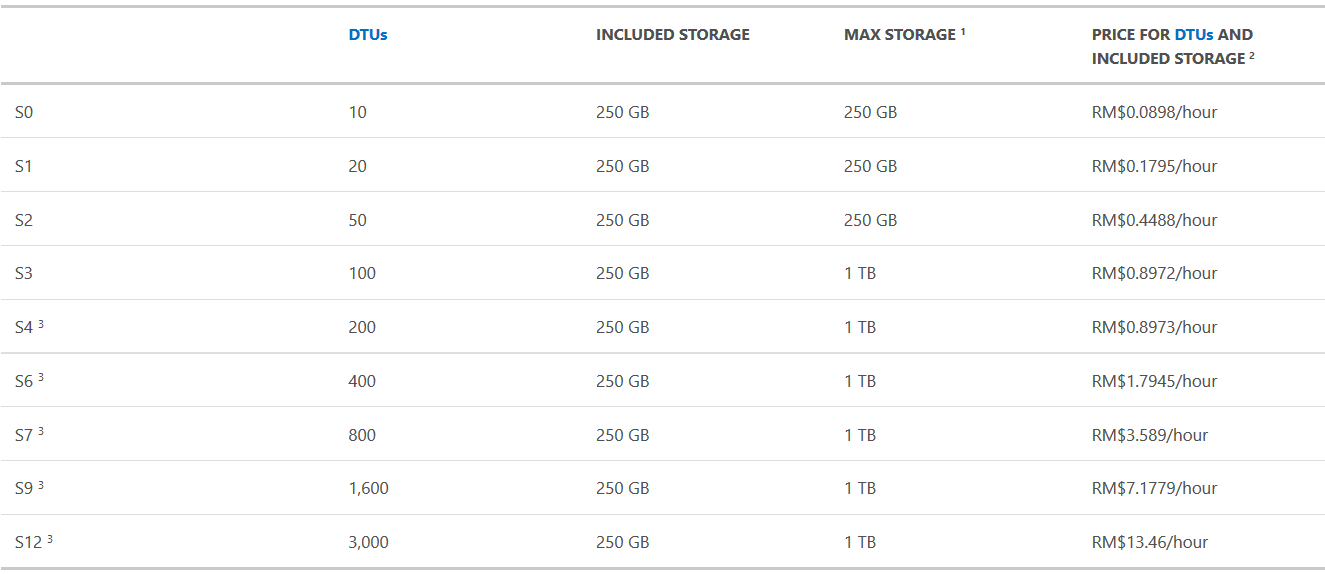


Figure 38 Azure SQL Database Standard Service Plan (Microsoft Azure, 2015)

### 4.3 (c) Premium Plan

**Description**

The standard service plan is divided into 6 categories which are P1, P2, P4, P6, P11 & P15 respectively. Based on the categories the DTU (Data Transaction Unit), Included Storage & Maximum Storage differs. On the other hand, the pricing for the sql database service per hour become expensive based on the categories. Below showing more details:

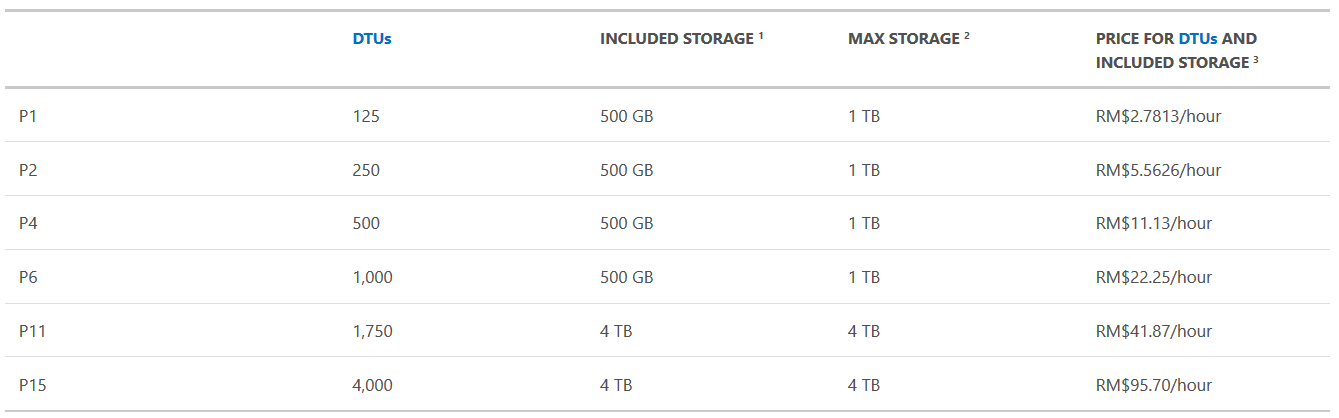


Figure 39 Azure SQL Database Premium Service Plan (Microsoft Azure, 2015)

### 4.3 (d) Premium RS Plan

**Description**

The standard service plan is divided into 4 categories which are PRS1, PRS2, PRS4, & PRS6 respectively. Based on the categories the DTU (Data Transaction Unit) differs. On the other hand, the pricing for the sql database service per hour become expensive based on the categories. Below showing more details:

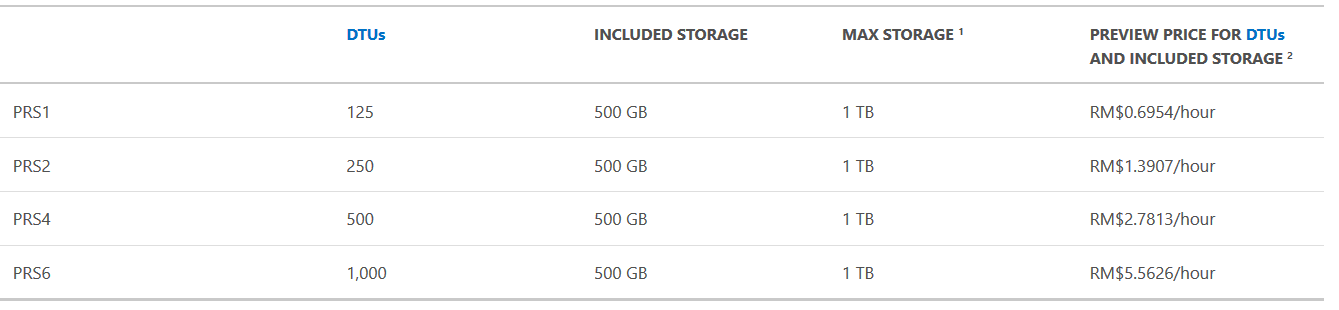


Figure 40 Azure SQL Database Premium RS Service Plan (Microsoft Azure, 2015)

## 4.4 Azure Traffic Manager

The billing for using traffic manager is based on some dimensions. They are:

* The total number of DNS queries received from client to server side.
* The number of end points that are monitored. Although the price depends on whether the service is azure or external and the frequency traffic manager monitor the end points as well.
* The measurement of the total number of real users.
* Data Points generated by the output of traffic view. (Microsoft Azure, 2015)

Below showing more details of azure traffic manager”

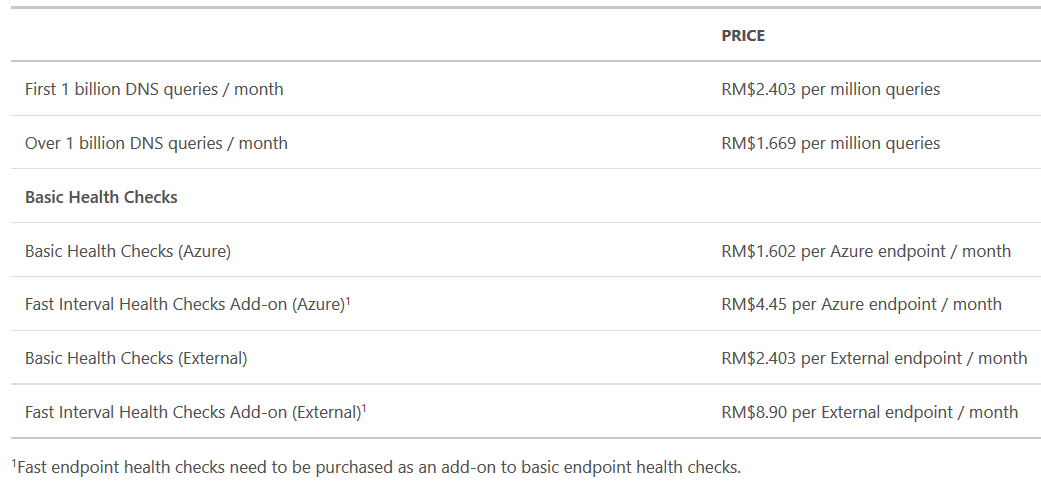
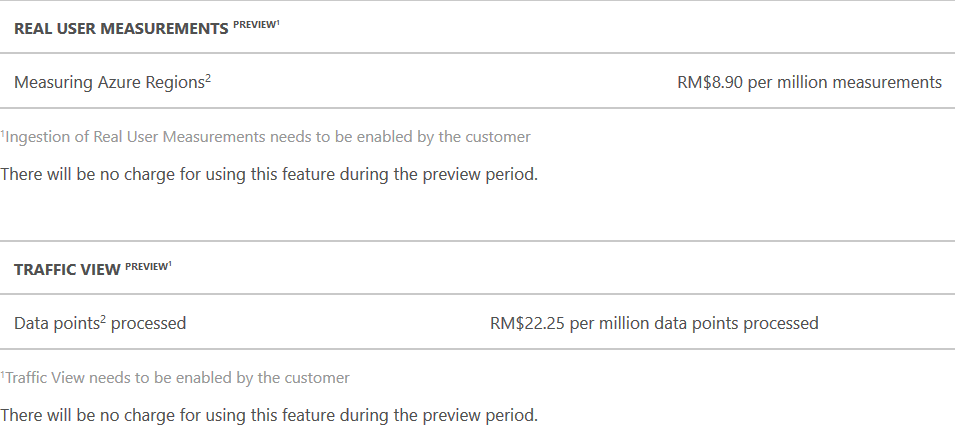


Figure 41 Azure Traffic Manager (Microsoft Azure, 2015)

## 4.5 Application Scaling with Justification

In this we will examine how the application reaction considering the scale level. We will appear with some chart including counts. We will scale up both the application benefit design from S1 to S2. Underneath demonstrating how we scaled up both the application administrations from S1 to S2.

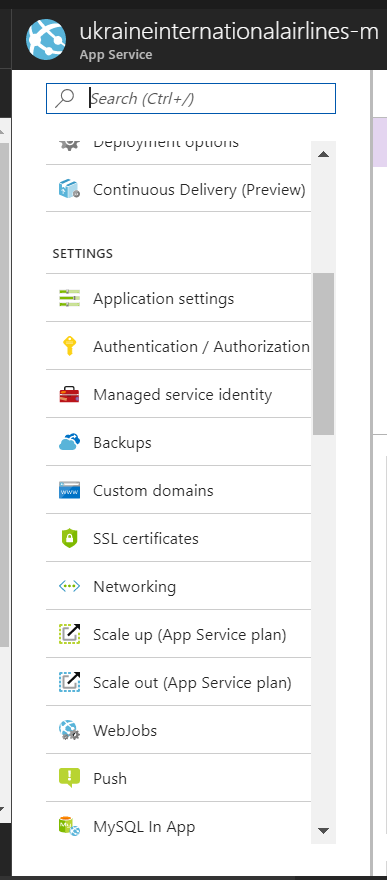


Figure 42 Selecting Scale Up Option From Menu



Figure 43 Select S2 Standard For App Service

**Description**

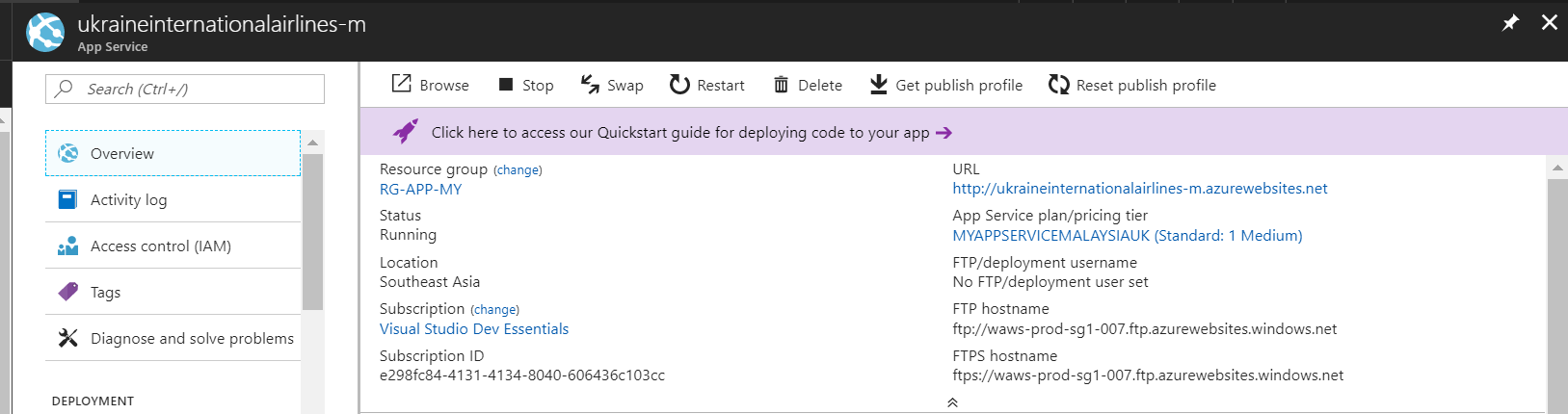
Above demonstrating how we chose the new application benefit design from the menu. We have changed our application benefit design from S1 to S2. From that point onward, it demonstrates the new application benefit design subtle elements on the outline board. Beneath demonstrating the points of interest of our changed application benefit design:

Figure 44 New Scaled Up App Service Plan Standard 2: Medium

**Justification**

The explanation for picking this standard is to upgrade the general execution of the framework. It will make our web application more responsive. We will have auto-scaling up to 10 occurrences. The RAM is high which will stay away from interruption on memory administration. In the meantime, it gives double to center. Despite the fact that the quantity of demand increment on server-side, this arrangement will effectively deal with those getting to demand.

## 4.6 Investigate & Analyze Application (Plan, Collect, and Interpret Diagnostics and Instrumentation Data)

In this section we are going to show the information on Data In, HTTP, Server Error, Data Out, Request & Average Response Time. Besides, we are going to provide in depth details for each of the information:

### 4.6 (a) HTTP Server Error

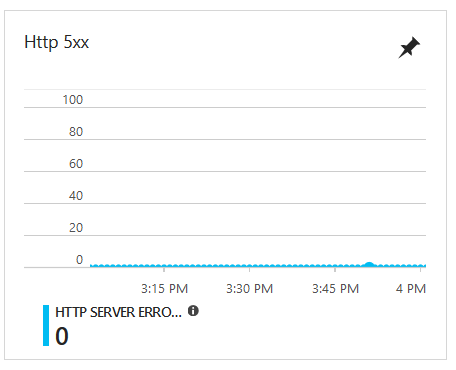


Figure 45 HTTP Server Error

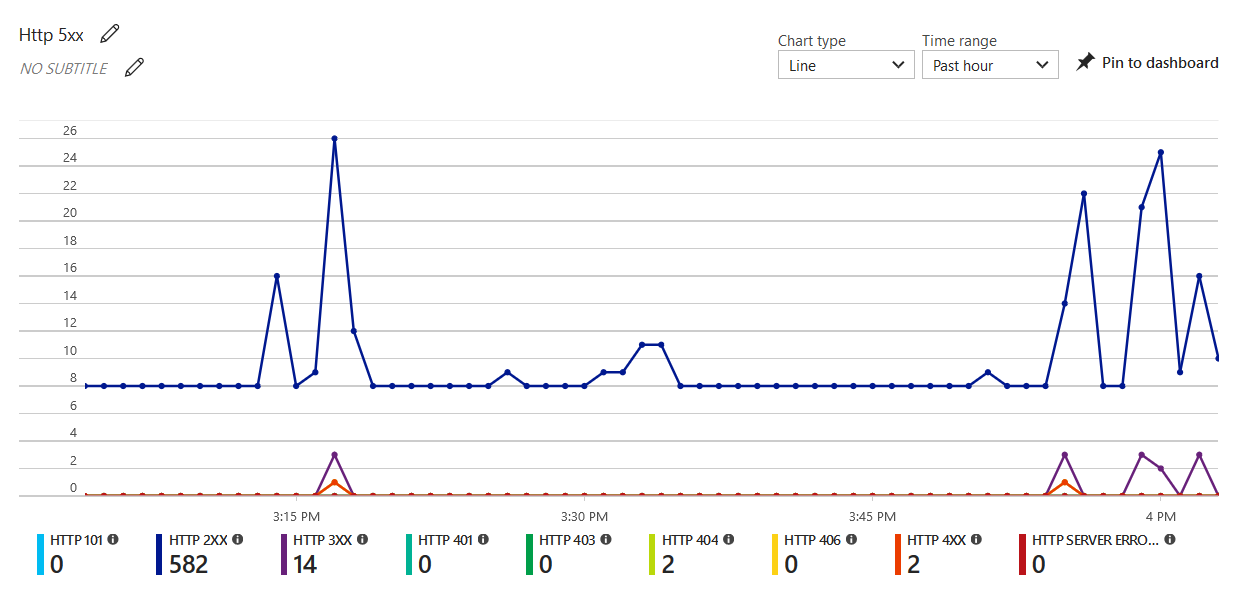


Figure 46 HTTP Details

**Description**

From the above graph we can see there is no HTTP error occurred in server side. So, we can say our system is working without having any server error. As a result, there will be no disruption on the request from client to server side.

### 4.6 (b) Data In

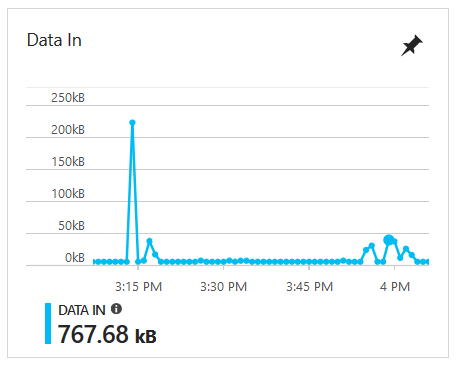


Figure 47 Data In

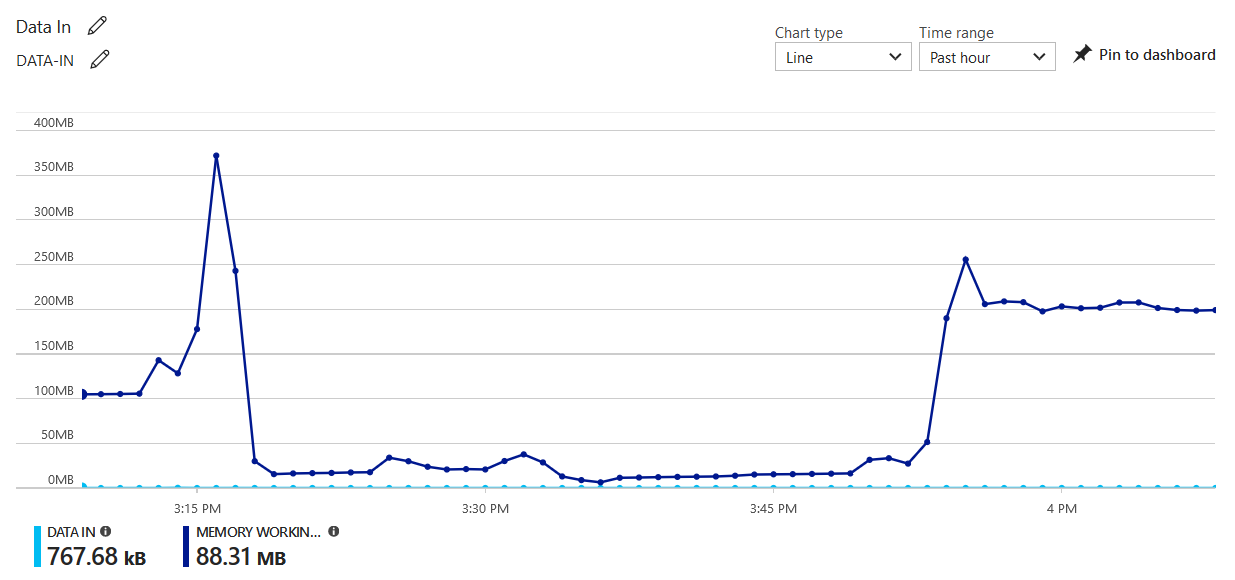


Figure 48 Data In Details

**Description**

The total data in from client to server side in around 767.68KB. And the memory working set in around 88.31MB.

### 4.6 (c) Data Out

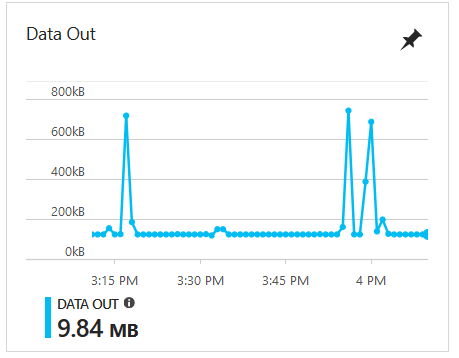


Figure 49 Data Out

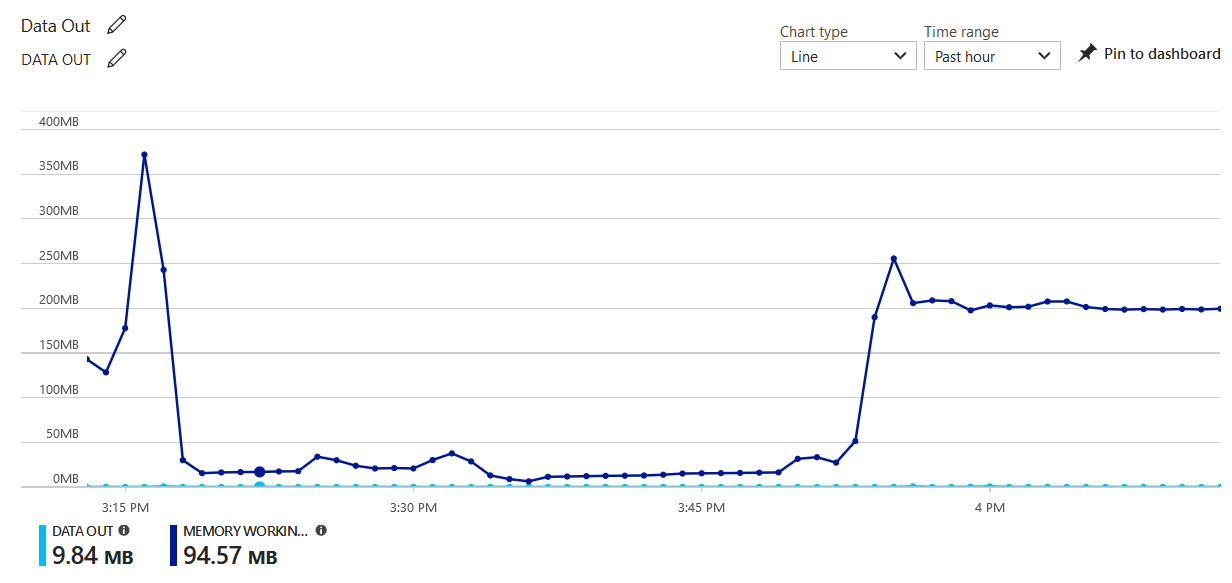


Figure 50 Data Out Details

**Description**

Above showing the total data out through the web application. The total data out is around 9.48MB whereas the memory working set is around 94.57 MB.

### 4.6 (d) Requests

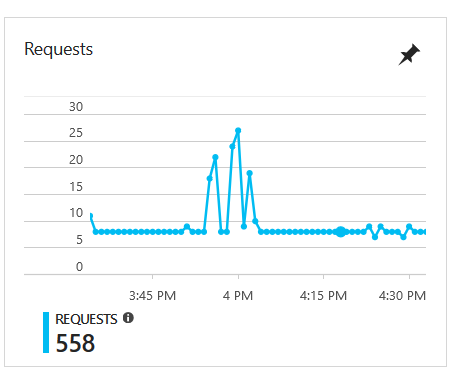


Figure 51 Requests Information

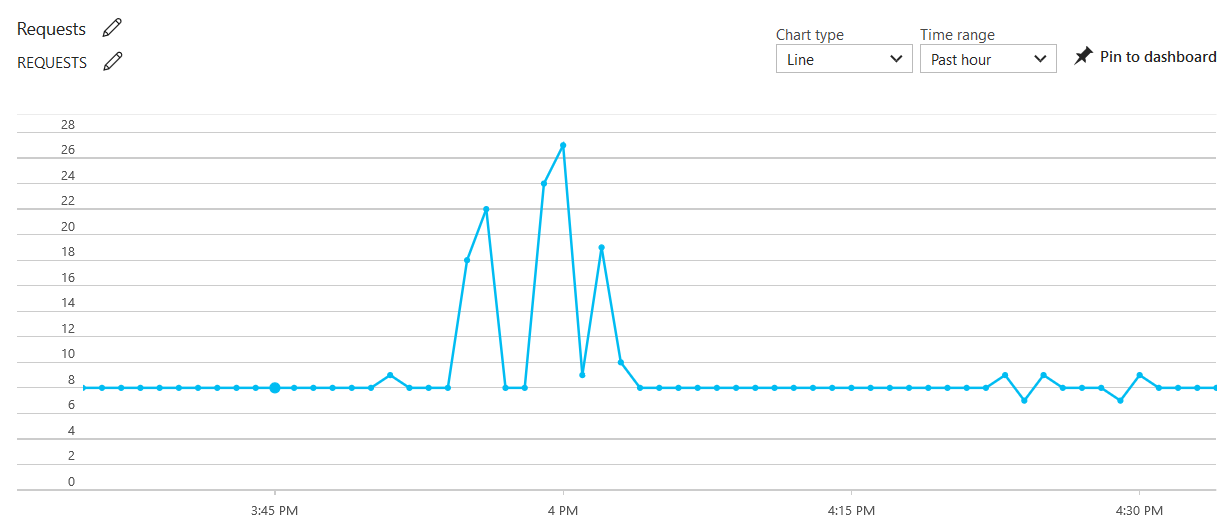


Figure 52 Requests Details

**Description**

Above showing the total requests received from client to server side which is around 558.

### 4.6 (e) Response Time

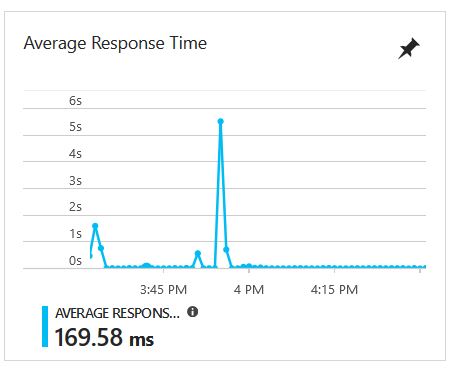


Figure 53 Response Time Information

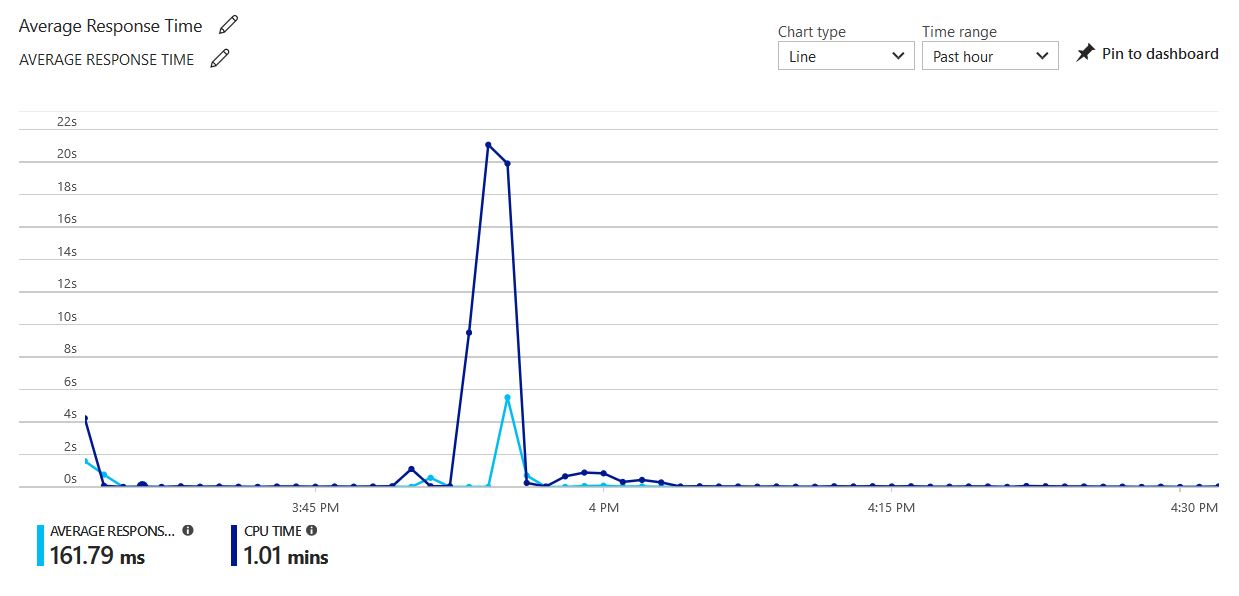


Figure 54 Average Response Time Details

**Description**

Above showing the average response time of our web apps. The total average response time is 161.79ms whereas the CPU time is 1.01 mins. It shows the response time is faster on Standard 2: medium compare to the Standard 1: small.

### 4.6 (f) Diagnostic Analysis

In this section we are going to discuss about the problem category that is aligned under the app services we have created for two regions such as South-East Asia & West US respectively. We are going to show the overall analysis of our web applications which includes App Error Analysis, App Performance Analysis, CPU Analysis, Memory Analysis & Deployment. Below showing more in details:

#### 4.6.1 App Error Analysis

In this section we are going to discuss about the application error analysis in depth. Below showing more details:

A screenshot of a cell phone

Description generated with very high confidence

Figure 55 App Availability Data

A screenshot of a social media post

Description generated with very high confidence

Figure 56 App Requests Analysis

**Description**

Above showing the details of the application error analysis. From the above graph we can see that overall platform and app availability in 100 percent. There is no issue with the platform and application regarding availability for both. Besides, while receiving the requests, there is no error occurred on server side and the total requests is 111. Most of the requests came under HTTP 2XX which is 107 whereas others are HTTP 3XX and HTTP 4XX.

#### 4.6.2 App Performance Analysis

In this section we are going to discuss about the application performance analysis in depth. Below showing more details:

A screenshot of a social media post

Description generated with very high confidence

Figure 57 Application Performance Analysis

**Description**

Above showing the details of our application performance analysis. The total response time is 50th percentile which represents that the application is performing normally.

#### 4.6.3 CPU Analysis

In this section we are going to discuss about the CPU analysis in depth. It has been divided into two sections which are:

* Overall CPU Usage Per Instance
* App CPU Usage Breakdown for Instance

Below showing more details:

A screenshot of a cell phone

Description generated with very high confidence

Figure 58 Overall CPU Usage Per Instance

A screenshot of a social media post

Description generated with very high confidence

Figure 59 App CPU Usage Breakdown For Instance

**Description**

Above showing the percentage of CPU Usage per Instance, which is only 1.20. It shows there is no excessive on CPU to process the application. On the other hand, the application CPU usage breakdown for the instance is 1.30.

#### 4.6.4 Memory Analysis

In this section we are going to discuss about the Memory analysis in depth. It has been divided into three sections which are:

* Page Operations
* Physical Memory Usage
* Committed Memory Usage

Below showing more details:

A screenshot of a social media post

Description generated with very high confidence

Figure 60 Page Operation Analysis

**Description**

Above showing the page operation analysis data in details. Here the page read per second is 25.95. This shows the calculation of page read per instance.

A picture containing screenshot

Description generated with very high confidence

Figure 61 Physical Memory Usage Analysis

**Description**

Above showing the page operation analysis data in details. Here the page read per second is 25.95. This shows the calculation of page read per instance.

A screenshot of a cell phone

Description generated with very high confidence

Figure 62 Committed Memory Usage Analysis

**Description**

Above showing the committed memory usage analysis data in detail. Here the average committed Mbytes is around 3439.00. The is average based on per instance.

## 4.7 Implementation & Discussion of Managed Databases (PaaS)

In this section we are going to discuss how we implemented azure sql database in our project step by step. Below are the steps:

### Step 1:

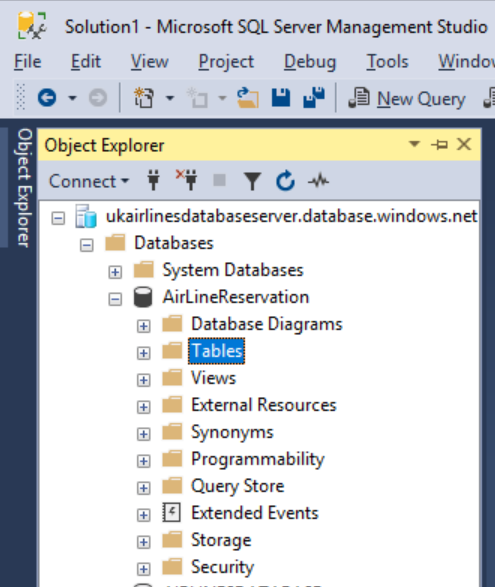
At first, we have created the local database (**AIRLINESDATABASESYSTEM**) using SQL Server Management Studio 2016.

Figure 63 SQL Server Management Studio 2016

### Step 2:

Then we have created the azure SQL Database Service where we entered all the necessary information for the database server creation.

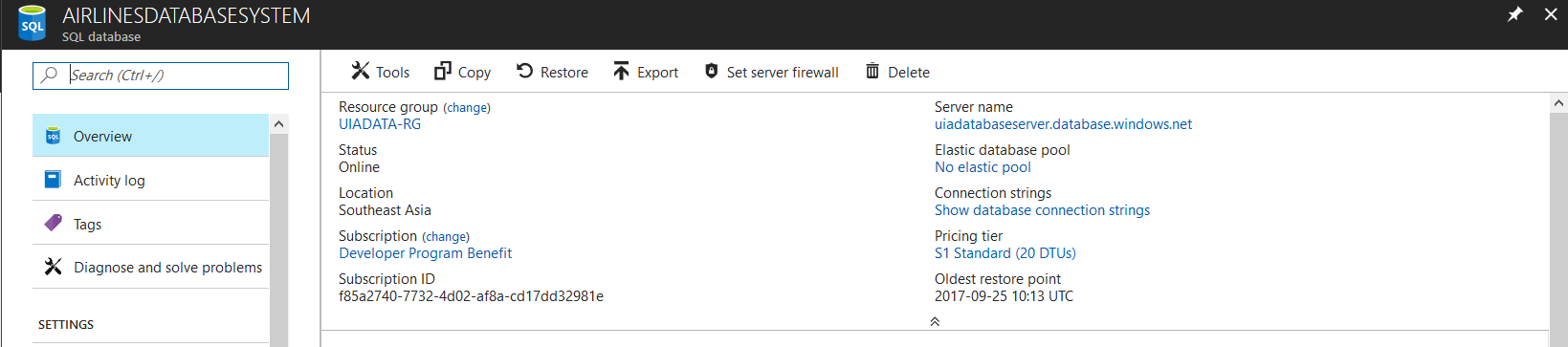


Figure 64 Azure SQL Database Server

Step 3:

After that we have deployed our database local server to azure sql database server using SQL Server Management Studio.

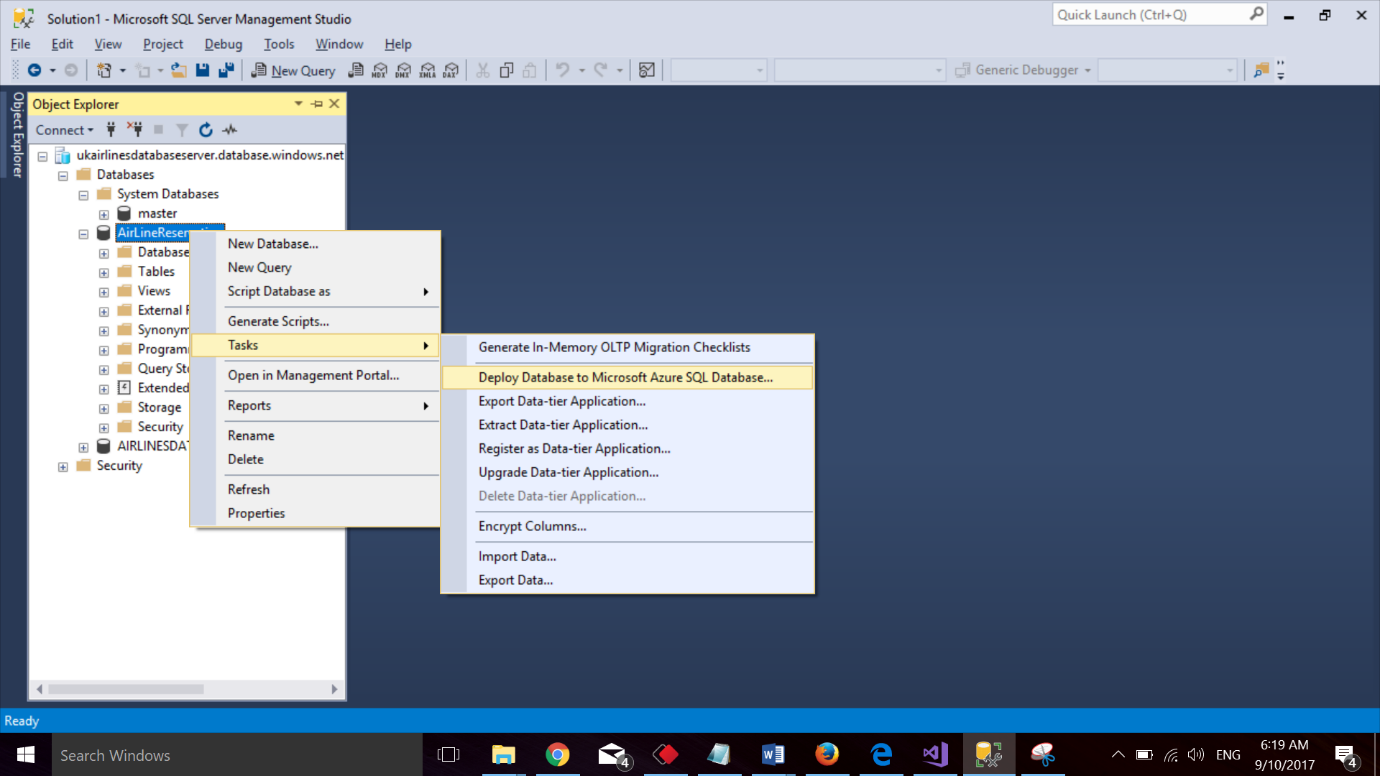


Figure 65 Selecting Azure Sql Database Server Deployment

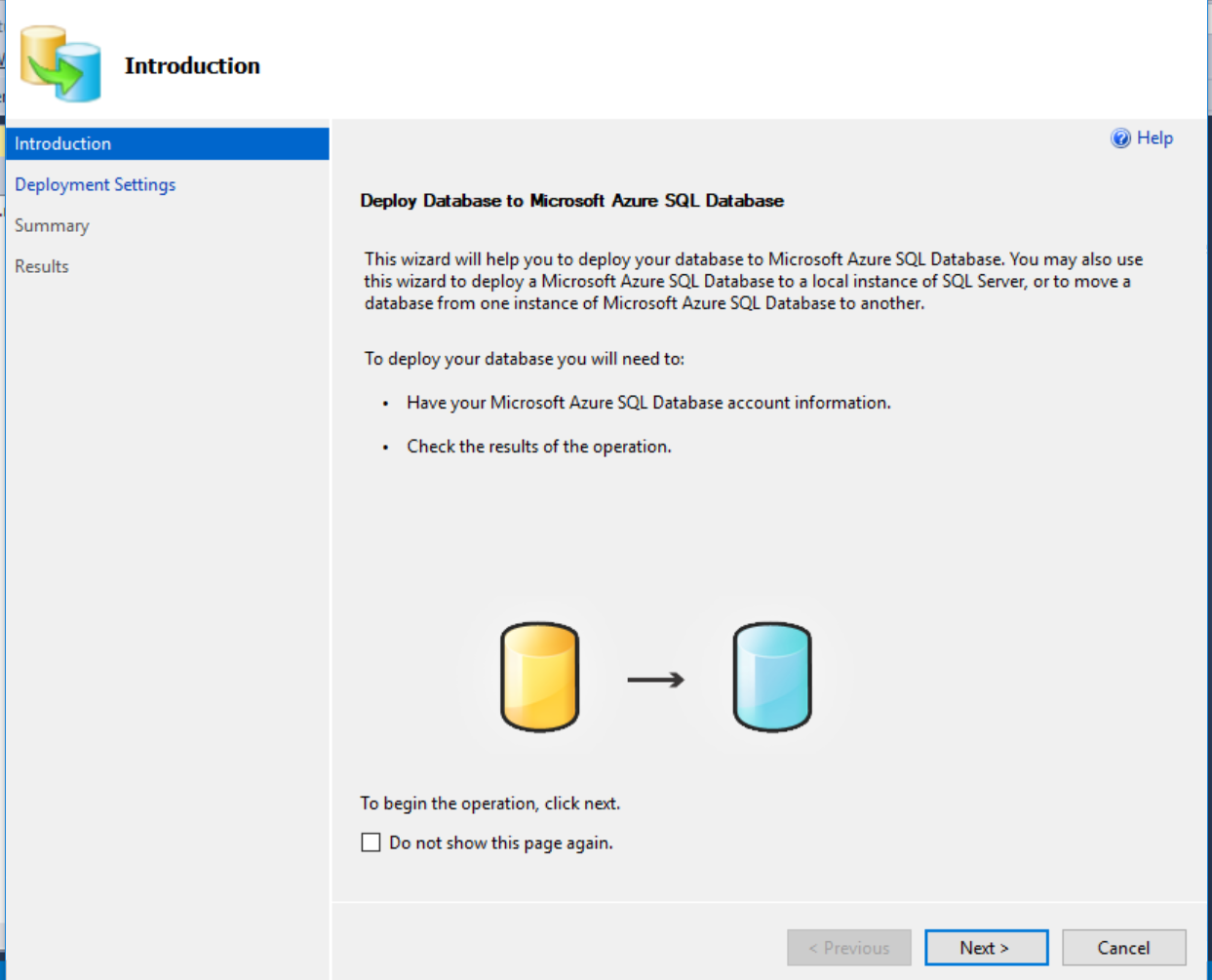


Figure 66 Deploy Database To Azure SQL Database

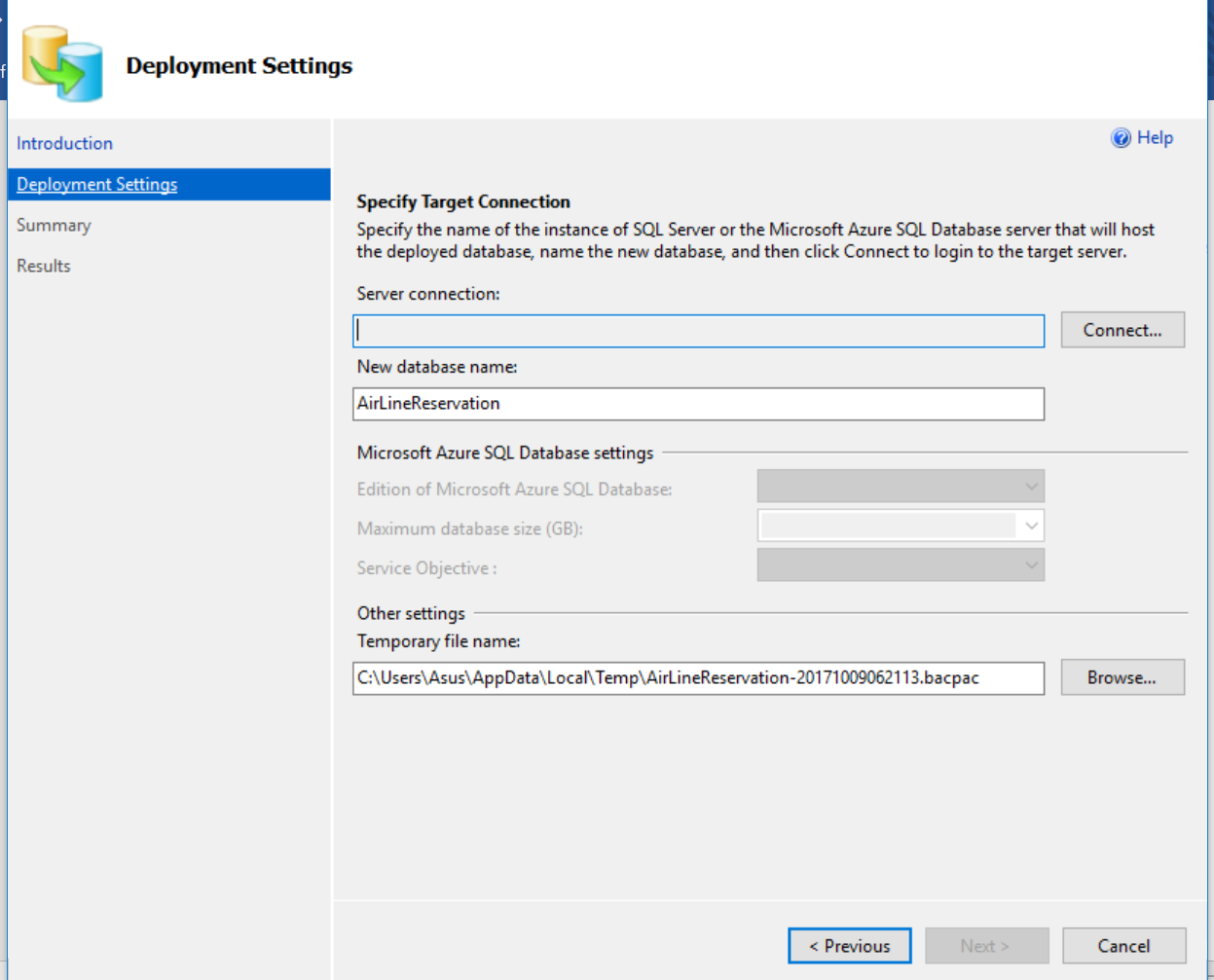


Figure 67 Deployment Settings



Figure 68 Connect To Server

### Step 4:

After the successful deployment we have connected to our azure sql database server directly from SQL Server Management Studio. Before that we have added our IP address from azure sql database server which is under firewall settings. Then we copied the server link and connected from the Sql Server Management Studio.

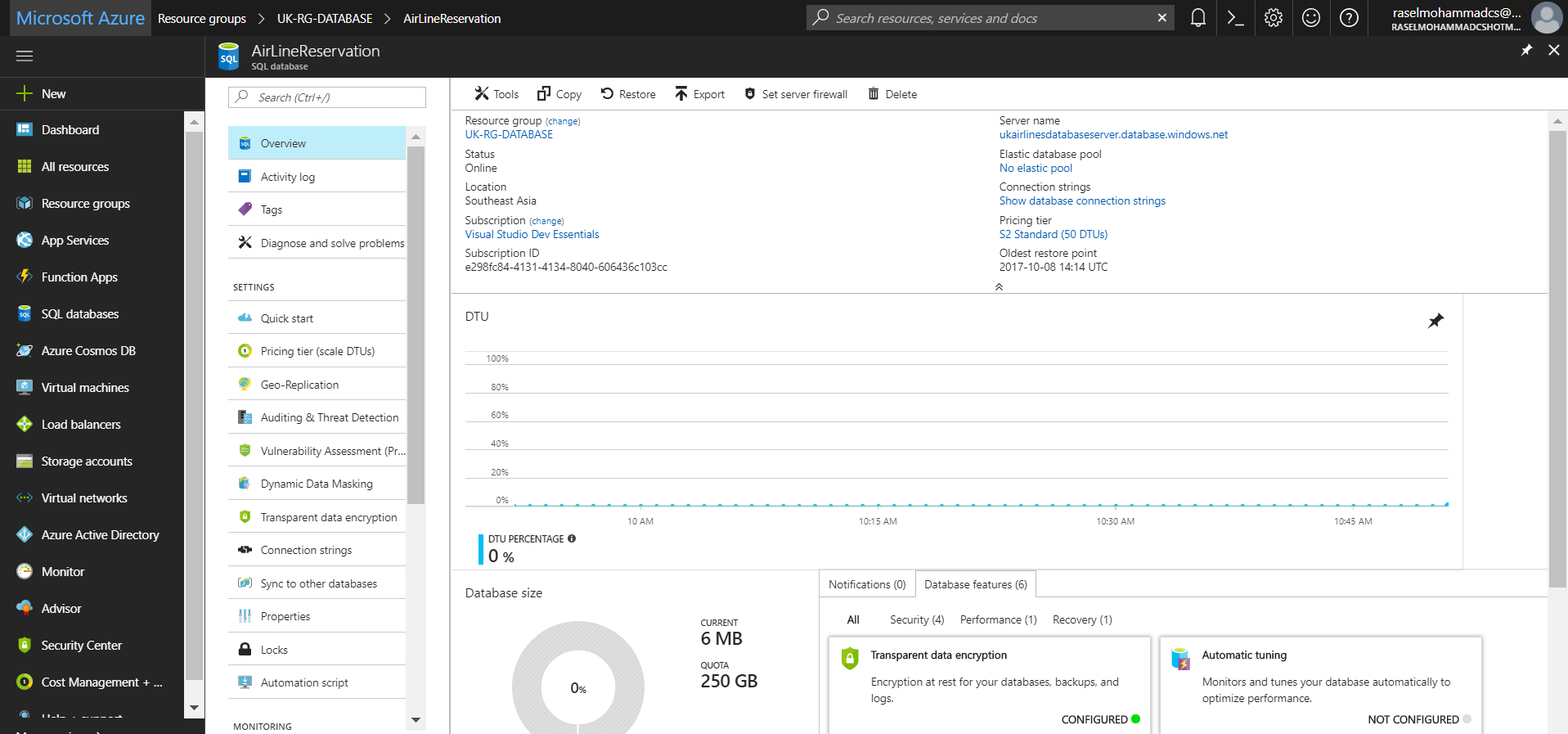


Figure 69 Set Azure SQL Server Firewall

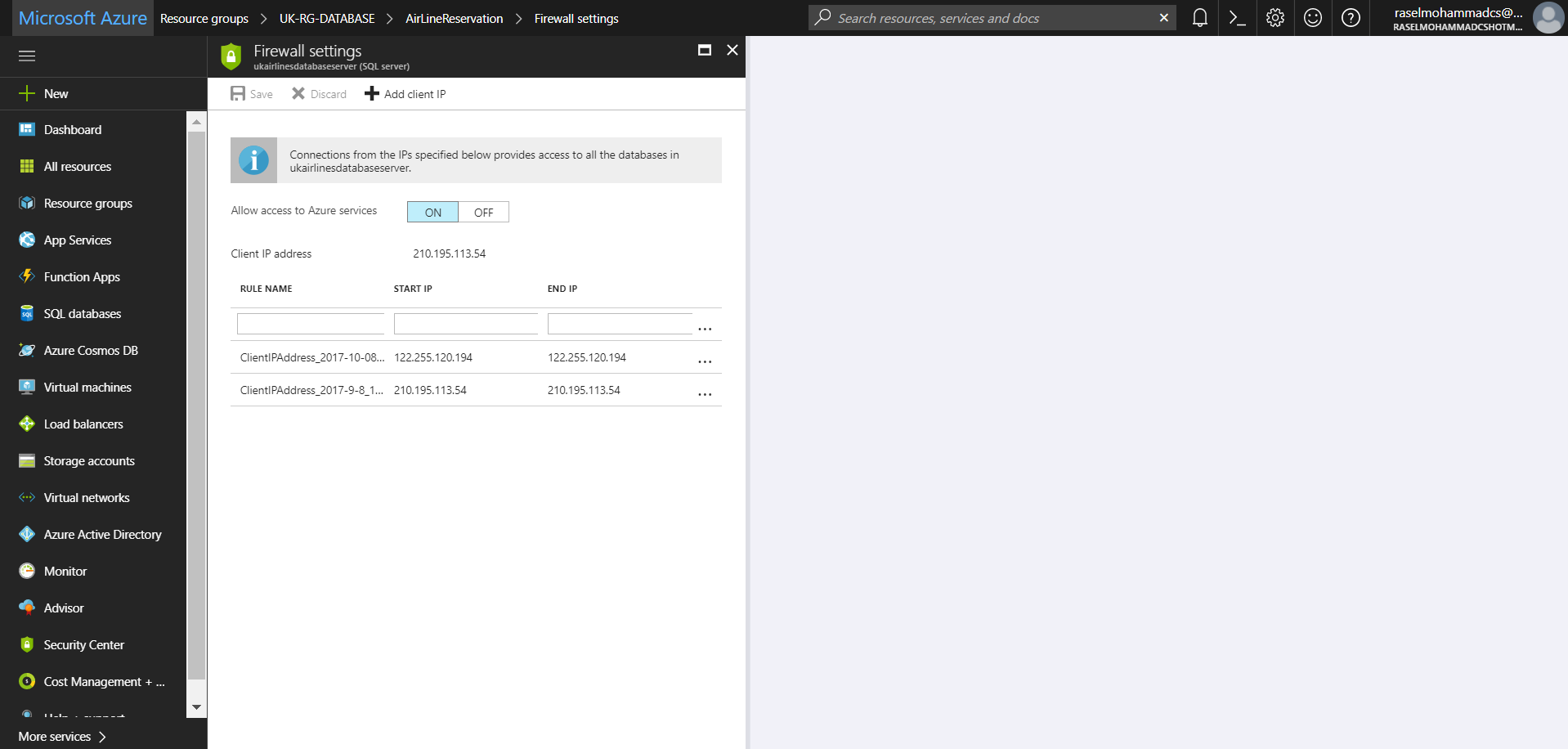


Figure 70 Adding Client IP Address

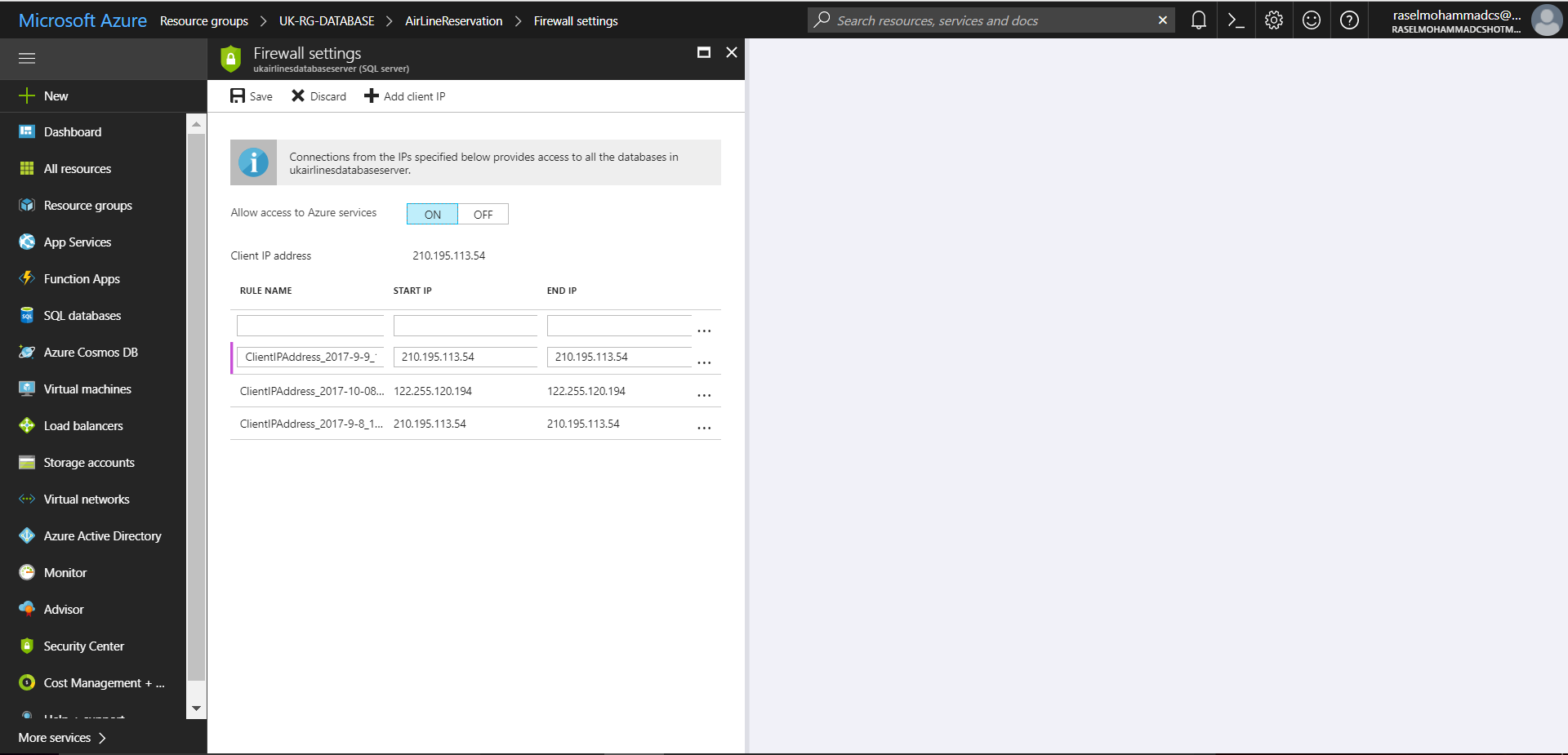


Figure 71 Successfully Adding Client IP Address

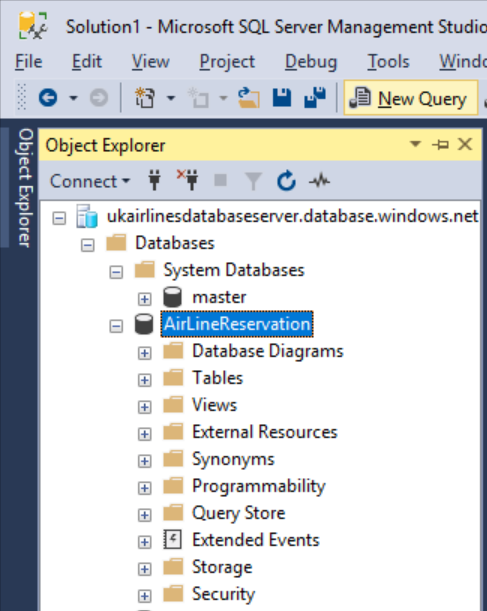


Figure 72 Azure SQL Database Using SQL Server Management Studio

## 4.8 Code Snippet

### 4.8 (a) Login



Figure 73 Login Code with Stored Procedure

**Description**

Above showing the code snippet of our web app login function. To prevent the SQL Injection, we are using stored procedure with parameters. When the user enters their username and password, the parameters take the entered data and compare with the data that are saved inside the Azure SQL Database. If the comparison match, then the system redirect users to their home page otherwise it shows the message unsuccessful.

### 4.8 (b) Passenger Registration



Figure 74 Passenger Registration Code with Stored Procedure

**Description**

Above showing the passenger registration function code. When the passenger enters their new details for the first time, the system takes all the data following the stored procedure paramters and insert into the Azure SQL Database. When the data insert successfully it shows the confirmation message box.

### 4.8 (c) Passing Parameters Using Session

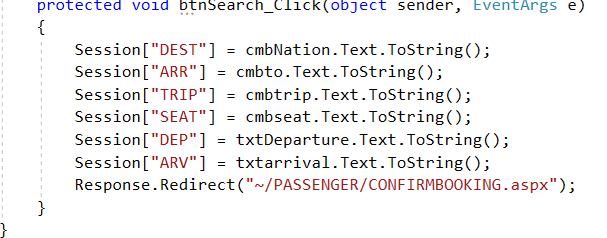


Figure 75 Passing Parameters Using Session

**Description**

Above showing how we are passing the session from one page to another. Here when the user selects flight details and click search, the user’s data are taken by the session and pass it to the confirmation booking page. Below showing the code snippet:



Figure 76 Showing Flight Details Using Session

### 4.8 (d) Users Session

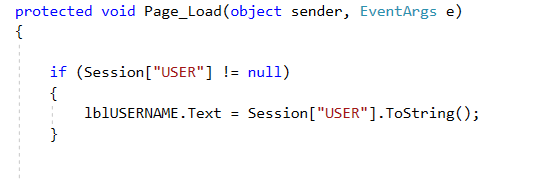


Figure 77 Users Session

**Description**

Above showing session code for the registered users. When the user login successful, system creates the session for the specific users based on username.

### 4.8 (e) Securing Web App from Unauthorized Access

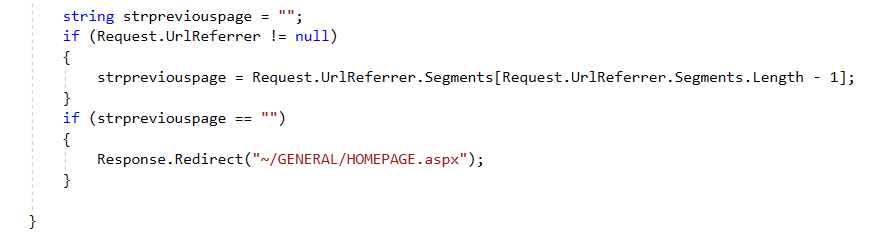


Figure 78 Securing Web App from Unauthorized Access

**Description**

Above showing code snippet for securing the URL of our web app. If the user simply copies and paste the URL on other website, the system will find out whether the user is already logged in to the system if not they will send back to the home page. As for example: when one of the passenger is logged in to the system and other user steal the URL and paste it on another browser then he will not be able to access the user profile. Below showing the interface of it:

### 4.8 (f) Booking Flight

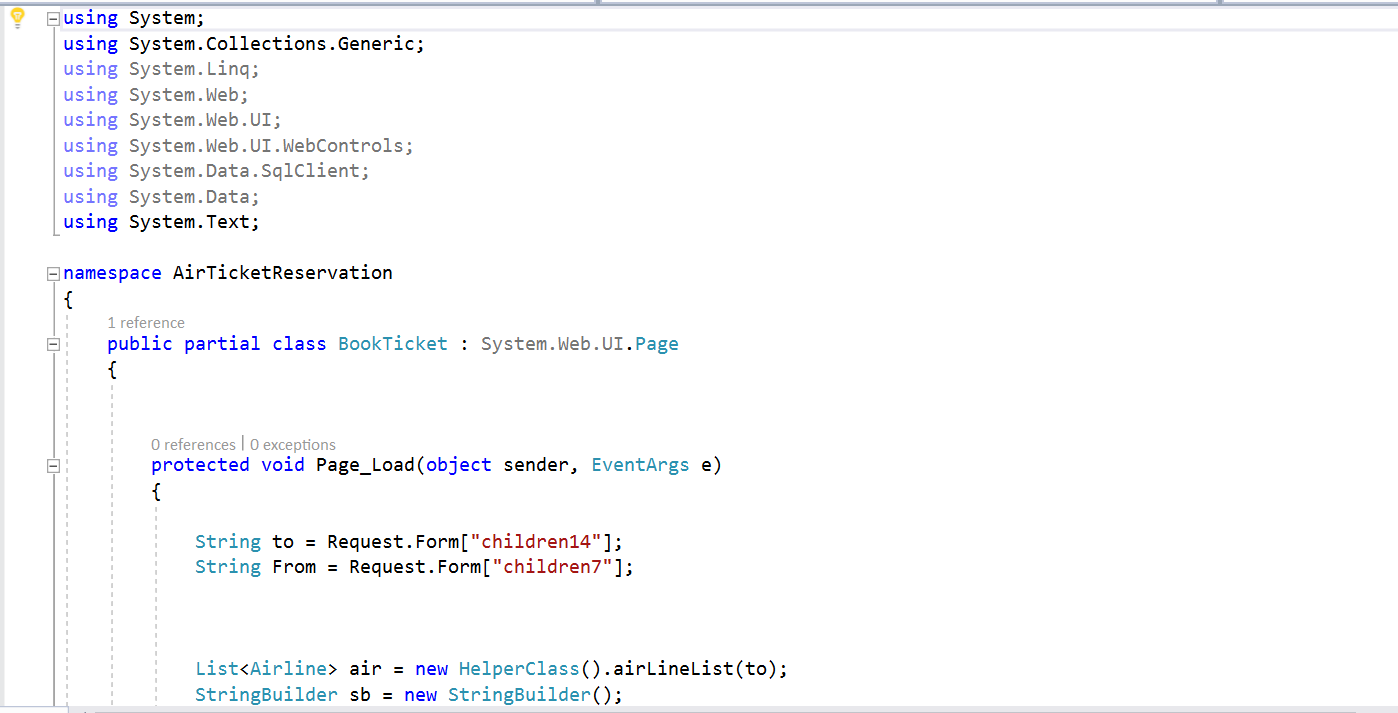


Figure 81 Flight Booking Code Snippet

**Description**

Above showing the flight booking code snippet of our web app. When the passenger enters necessary details about the flight booking including the payment details and proceed. The system will then transfer the user to payment successful page.

# 5.0 Testing Cloud Application (Unit Testing & Performance Testing)

## 5.1 Azure Cloud Performance Testing

In this section we are going to discuss about the azure performance testing that we have done to find out the overall performance of our web app. This is one of the important steps that we have undertaken as our apps is going to access from two different region South East Asia & West US. To ensure that our app can handle user load coming from two regions at the same time we have done this azure cloud performance test. Below showing more details:

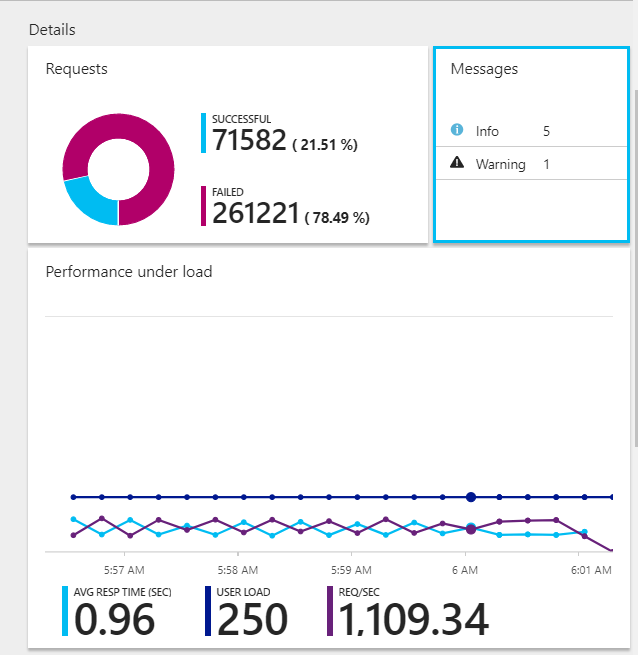
**Under Standard 1 – 250 User Load**

Figure 82 Performance Testing Details

**Description**

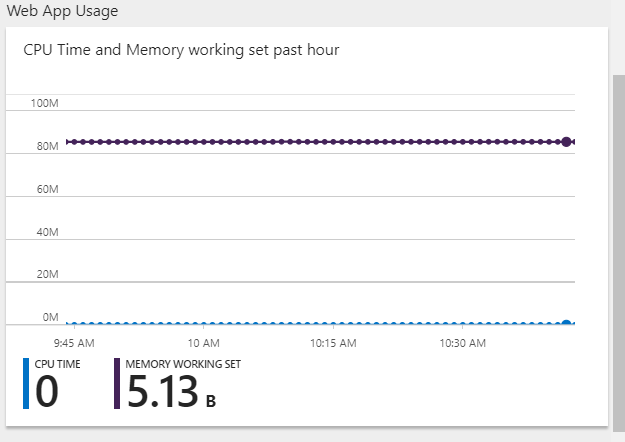
Above showing the performance user load details on our web app. The total user load is 250. From the chart it shows the total successful request the system handled is around 21.51% (71582). Whereas the total unsuccessful request is which is 78.49% (261221). The average response time taken the system to response is 2.78 per second. The request per second from the user is around 126.41. Below showing the CPU time and memory working set details:

Figure 83 CPU Time & Memory Working Set

Below showing the reasons behind 12 unsuccessful that has been occurred during the performance testing:

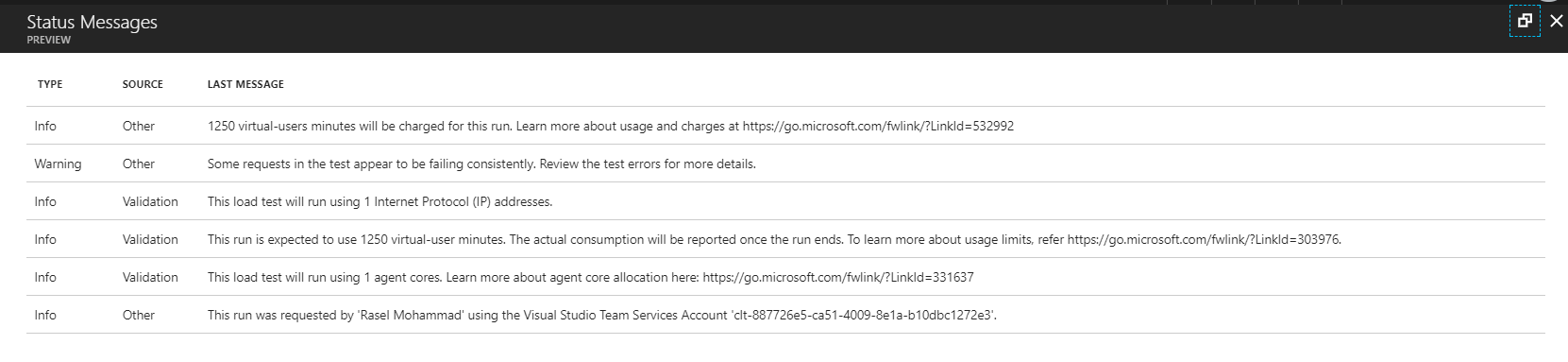


Figure 84 Request Failures

**Description**

Most of the request failures occurred due to the internal server error. From the above chart we can see that “***500 – Internal Server Error***” has been occurred while requesting through DNS. On the other side, the Bad Gateway appeared 3 times while accessing the request. All the error occurred under HTTP Error Type.

**Under Standard 2 – 500 User Load**

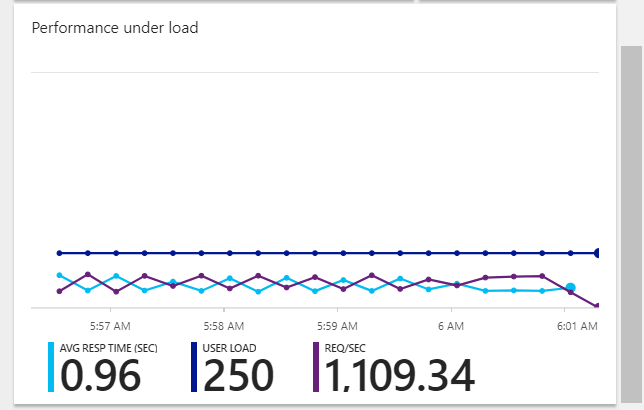


Figure 85 Performance Testing Details

**Description**

Above showing the performance user load details on our web app. The total user load is 250. From the chart it shows the total successful request the system handled is around (1109.34). Whereas the total unsuccessful request is very minimum which is only 0.01% (13). The average response time taken the system to response is 2.44 per second. The request per second from the user is around 245.97. Below showing the CPU time and memory working set details:

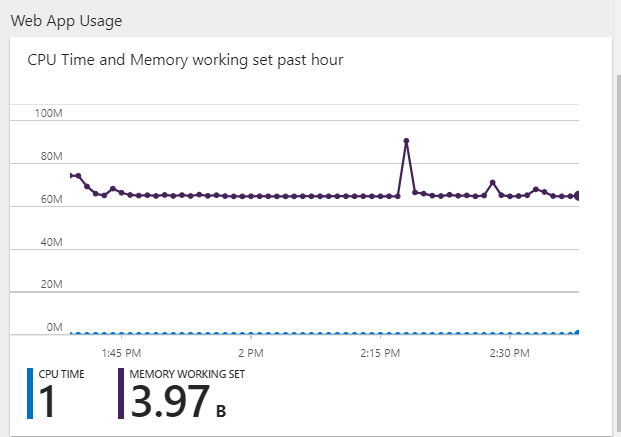


Figure 86 CPU Time & Memory Working Set

Below showing the reasons behind 13 unsuccessful that has been occurred during the performance testing

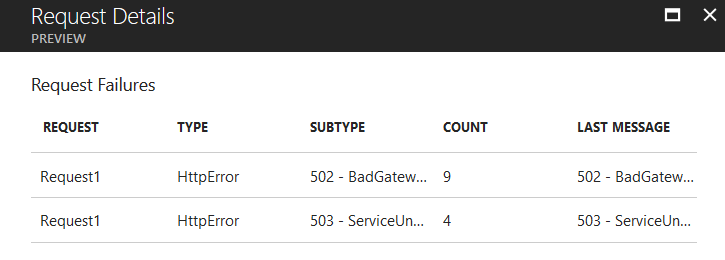


Figure 87 Request Failures

**Description**

Most of the request failures occurred due to the Bad Gateway. From the above chart we can see that “***502 – Bad Gateway***” has been occurred while requesting through DNS. On the other side, the 503 – Service Unavailable has been appeared 4 times while accessing the request. All the error occurred under HTTP Error Type.

5.2 Unit Testing

|  |  |  |
| --- | --- | --- |
| Module Name | Login | |
| Tester | **Tester 1** | |
| Unit Tested | **Passenger Login** | |
| Test Data | Valid Test:  Email: raselusa100@gmail.com  Password: 040521Rasel | Invalid Test:  Email: raselusa222@gmail.com  Password: 3823dwd |
| Expected Output | System will redirect to passenger profile | An error message box will pop up regarding checking Email and password |
| Actual Output | System redirecting to passenger profile | An error message box is popping up regarding checking email and password |
| Remarks | PASS | |

|  |  |  |
| --- | --- | --- |
| Module Name | Passenger Registration | |
| Tester | **Tester 1** | |
| Unit Tested | **Register New Passenger** | |
| Test Data | Valid Test:  Full Name: Mohammad Rasel  Email: raselusa100@gmail.com  Nationality: Bangladesh  Date Of Birth: 06 / 01 / 1994  Password: 040521Rasel  Address: South city  Contact: 01127282373 | Invalid Test:  Blank Details |
| Expected Output | System will save new passenger details into Azure SQL Database | An error message box will pop up regarding validation checking |
| Actual Output | System adding new passenger | Error message box popping up regarding validation check |
| Remarks | PASS | |

|  |  |  |
| --- | --- | --- |
| Module Name | Book Flight Confirmation | |
| Tester | **Tester 1** | |
| Unit Tested | **Booking New Flight** | |
| Test Data | Valid Test:  Origin: Dhaka  Destination: Malaysia  Trip: Two Way  Departure: 10 / 5 / 2017  Arrival: 11 / 16 / 2017  Seat: EC-A1  Select Card: MASTER  Card Number: 1434567891234567  CVV: 432  Expiry: Jan 2022 | Invalid Test:  Blank Details |
| Expected Output | System will save new passenger booking details with payment into Azure SQL Database | An error message box will pop up regarding validation checking |
| Actual Output | Passenger can book flight | Error message box popping up regarding validation check |
| Remarks | PASS | |

# 6.0 FUTURE ENHANCEMENT

As of now, the framework enables travelers to pay to utilize their Mastercard. It doesn't enable them to pay straightforwardly from the bank, for example, internet saving money. As an extra, we will execute internet saving money entrance from where clients can pay for their ticket by basically signing in to their individual bank and exchange cash to Ukraine International Airlines financial balance. In addition, we will convey more database on the various area with application administrations and add Geo-Location to match up information into various databases. To make the application for secured, sky blue dynamic registry will be executed for client's openness. We will likewise give online arrangements inns to various visitor spots for the travelers which will be less expensive than the typical cost. In addition, the enrollment markdown will be given to the individuals who are long-standing customers. For the long-standing customers, we will give some markdown bundles to particular goals were they as often as a possible fly.

Then again, execution testing will occur in light of expanding client stacks with the goal that we can guarantee our framework performs well.

# 7.0 CONCLUSION

In this documentation, we have examined about how we have built up an online flight booking framework for Ukraine International Airlines. This documentation incorporated the general working advancement on how we have executed sky-blue stage in this undertaking where we utilized sky blue web application benefit, sky blue SQL database benefit, acting chief. We additionally examined about how we guarantee that the web application we have created is performing very much in light of the sky-blue execution testing result investigation. Despite what might be expected, this venture helped us a long way to go more about sky blue distributed computing and PAAS (Platform as A Service). We have adopted more about sky blue application administrations, purplish blue SQL database benefit, VM (Virtual Machine), Radis Cache.

In future, it will help us to grow more powerful applications for end clients utilizing purplish blue cloud stage. It will help us to give our end clients continuous administrations through purplish blue cloud stage.

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Microsoft Azure, 2015. *traffic-manager.* [Online]   
Available at: https://azure.microsoft.com/en-us/pricing/details/traffic-manager/

# APPENDEXING

<https://github.com/raselmohammadcs/DDACASSIGNMENT>