**Content :**

**Week1**

**1.IIS**

a.Hosting website in IIS

b.Application pools

**2.Azure**

a.Web App

b.API App

c.Web Job & Worker Roles

d.Virtual Machine

e.SQL Database

f.Blob Storage, Queues and Document DB

**1. App Service**

a. Web Apps

b. Mobile Apps

c. Logic Apps

d. API Apps

**Assignments**

We have placed the following in the shared location (\\fileshare\Saturday Training\Content\Azure)

a. Asp.Net MVC (project source code & binaries)

b. SQL DB Scripts

**Assignment 1:**

a. Create SQL database and deploy the provided scripts.

b. Deploy shared Asp.Net MVC app into Azure web app and configure the connection string in web.config file to point the created DB

1. Using visual studio

2. Using project binaries

c. Validate the deployed application

**Assignment 2:**

Create an mobile/web/windows application(in your desired technology) to read images(jpg/png) and upload the images to Azure blob storage

**Week2:**

**1.Web/API App - Deployment slots**

**2.Web/API App - Explore Deployment Options**

a)Github

b)Local Git

**3.Web App - Scale Up, Scale Out, Auto Scaling**

**4.Web/API App - Backups**

**5.Web App -Traffic Manager Profile**

**6.SQL DB – Geo Replication**

**7.Web App - Testing in production**

**Assignment 1:**

a. Create a sample web application(you can use the previously shared MVC application)

b. Create a repository in Github with two branches dev and QA

c. Push your project to Github

d. Create a web app in azure. Create two deployment slots: one for dev, other for QA

e. Setup continuous integration for both the slots. Connect the dev slot to dev branch and QA slot to QA branch in github

f. Push the code into different branches and check the continuous integration

g. Explore the swap option in web app

**Assignment 2:**

Create a Traffic Manager between two web applications in a different geographical location in Azure to maintain isolation so that at least one Web Application will serve the user request in case of another application is down. In any one webpage display IP address, so that we will be able to see from which location the response is served from.

**Assignment 3:**

Configure SQL Server with Geo-Replication in Azure. Configure one primary and one secondary DB server. Create a MVC application which will point to primary DB server and when the primary DB server goes down the web app should point to secondary DB server. Figure out a way to change the connection string of the web app automatically depending on the DB server availability.

**Assignment 4:**

Create a backup of your web app in azure. Restore the backup to a new web app in azure

Note : Assignments should be completed by 4th November