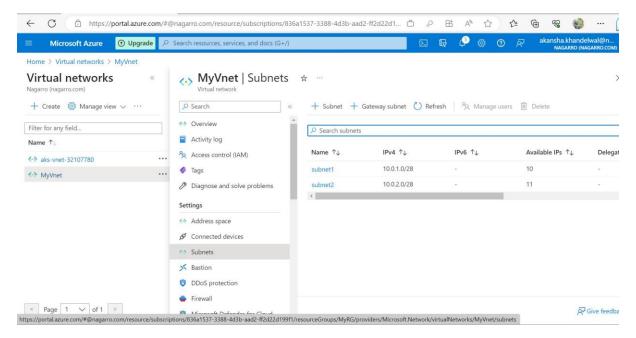
#### AZURE ASSIGNMENT

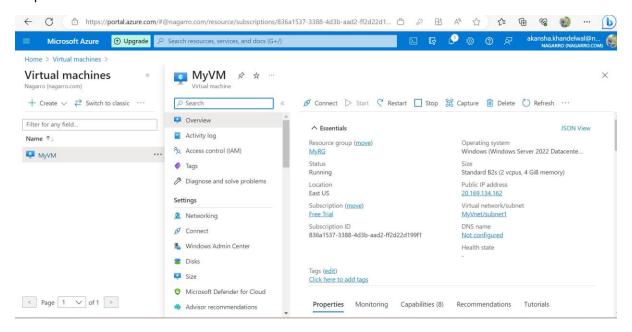
1. Create a virtual network with 2 subnets. Each subnet should have 16 lps only.

Created Virtual Network and 2 Subnets under resource group MyRG in Free-Trial subscription

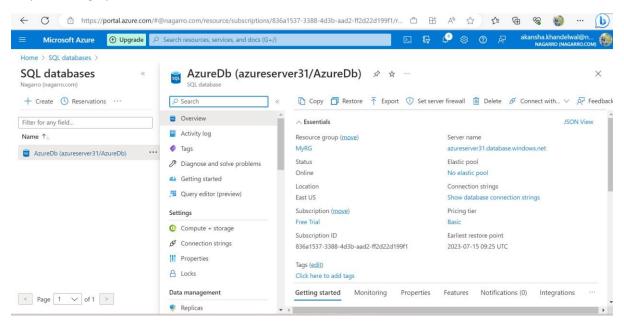


2. Inside one of the subnets, create a VM and deploy an application code inside it and it should leverage the database on the cloud (any existing application created by you before)

Step 1 -Create VM



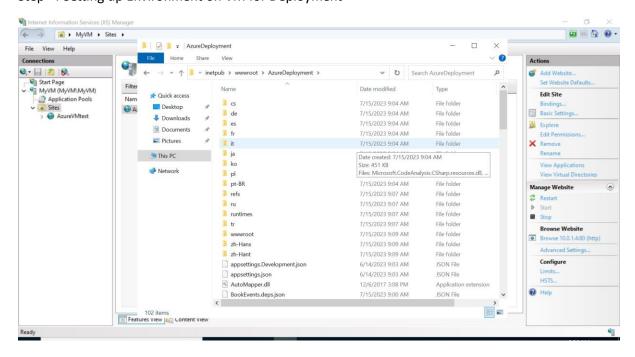
### Step-2 Setting up SQL Database



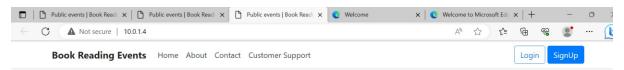
### Step-3 Setting up Connection String for Azure SQL database

```
File Edit View Git Project Build Debug Test Analyze Tools Extensions Window Help Search (Ctrl+Q)
                                                                                                            → ► IIS Express → # C → | 🙉 | 🙆 🚅 ⊨ 🖷 | 🖫 📵 📜 🐪 🦄 🥞
                                                                                                                                                      2
                                                                                                                                           Live Share
    20230715085335_init azure.cs
                                              Startup.cs* + X Program.cs
                                                                                                                               000.000
               using Webgentle.BookStore.Data;
              using Webgentle.BookStore.Repository;
                                                                                                                               earch Solution Explorer (Ctrl+;)
        18
                                                                                                                               Controllers
        19
              namespace Webgentle.BookStore
        20
                                                                                                                               Logs
        21
                    public class Startup
                                                                                                                               c* 20230715085335_init azure.cs
        22
                        // This method gets called by the runtime. Use this method to add services to the cont
                                                                                                                              C* EventStoreContextModelSnapshot.cs
                        // For more information on how to configure your application, visit https://go.micross
        24
        25
                        public void ConfigureServices(IServiceCollection services)
                                                                                                                              Repository
                            services.AddIdentity<IdentityUser, IdentityRole>().AddEntityFrameworkStores<EventS
services.AddDbContext<EventStoreContext>(options =>
        27
        28
                                                                                                                               libman.jsor
                                                                                                                              Program.cs
Startup.cs
                            options.UseSqlServer("Server=tcp:azureserver31.database.windows.net,1433;Initial (
services.ConfigureApplicationCookie(config =>
        291
        31
        32
                                 config.LoginPath = "/login";
                            }
        33
                                                                                                                              35
                             services.AddControllersWithViews();
               #if DEBUG
        36
                             services AddRazorPages() AddRazorRuntimeCompilation():
                                                                                                  Ln: 29 Ch: 13 SPC CRLF
   Output
Web Publish Activity | Package Manager Console | Error List | Output
```

### Step- 4 Setting up Environment on VM for Deployment



### Step-5 Code Deployed on Virtual Machine



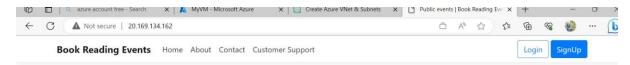
# Welcome to Book Reading Events

**Upcoming Events** 

Past Events

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### Step- 6 VM Deployed Code Testing on Local machine



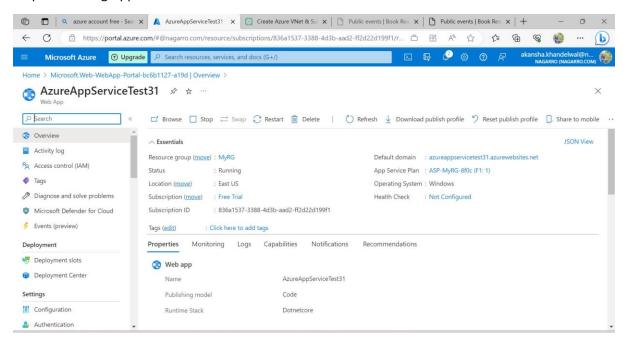
# Welcome to Book Reading Events

**Upcoming Events** 

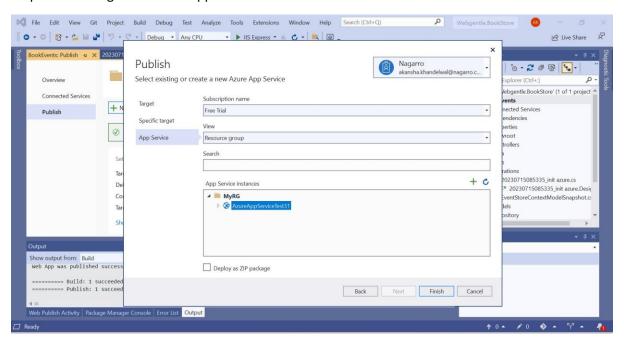
Past Events

3. Deploy the same application to Azure App Service. It should also leverage the database on the cloud.

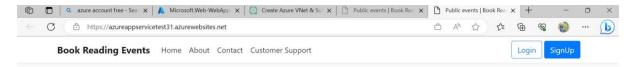
Step -1 Creating App Service



### Step-2 Publishing the code to AppService



## Step-3 Code deployed on Azure App service



# Welcome to Book Reading Events

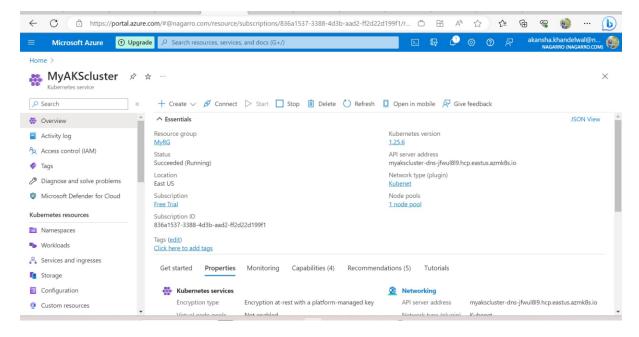
**Upcoming Events** 

Past Events

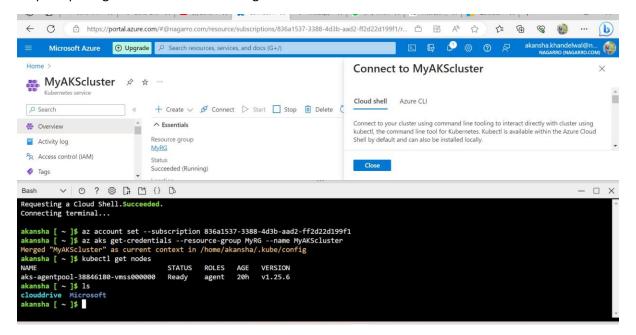
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4. Create the AKS cluster and deploy services on it. Services should be accessible from the internet.

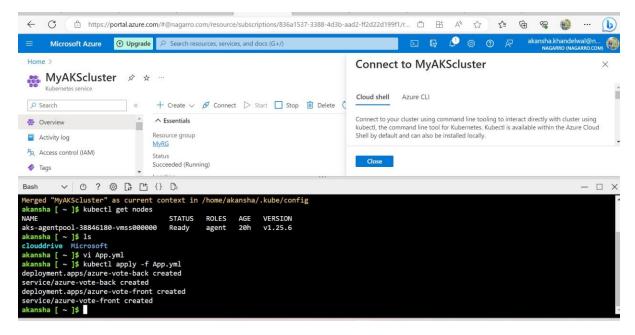
### Step-1 Created AKS cluster



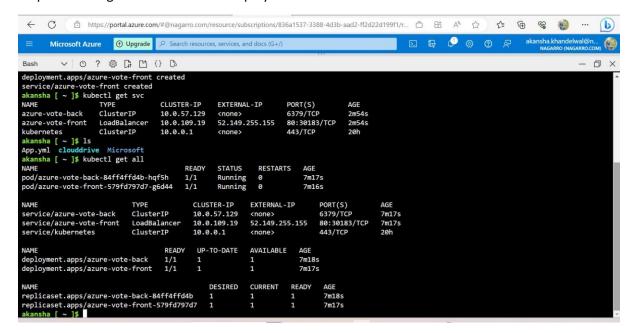
### Step-2 Opening cloud-bash and checking nodes



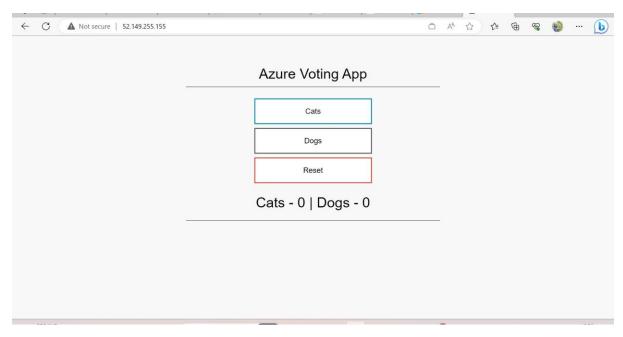
### Step-3 Created yaml file and deployed Code on AKS cluster



### Step-4 Checking services related to deployed code

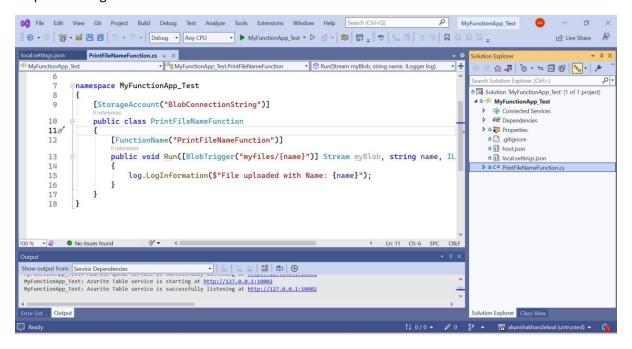


Step-5 Deployed code checking through external-IP

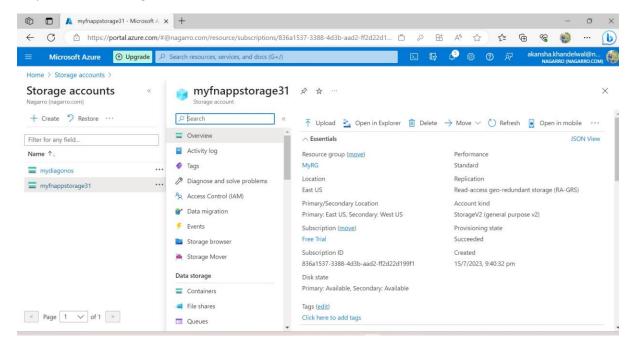


5. Create an Azure function that should trigger as soon as you upload a file in the blob storage. Function should be able to print the name of the file uploaded in the function.

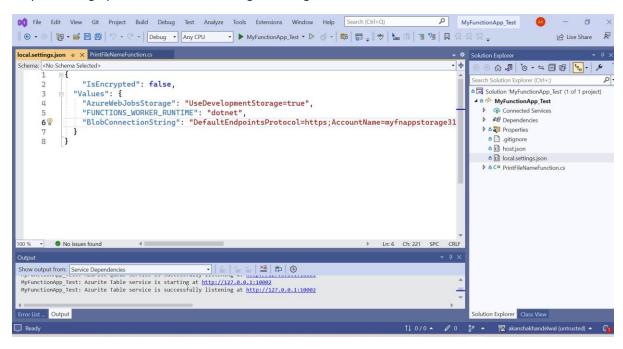
Step-1 Creating Azure Function in Visual studio 2022



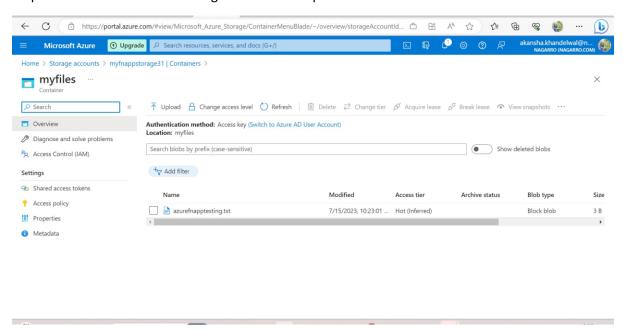
### Step-2 Created Storage Account



### Step-3 Setting up Blob Connection String of Storage Account



### Step-4 Created Container in Storage account and uploaded file



## Step-5 Blob Trigger Created while uploading file

