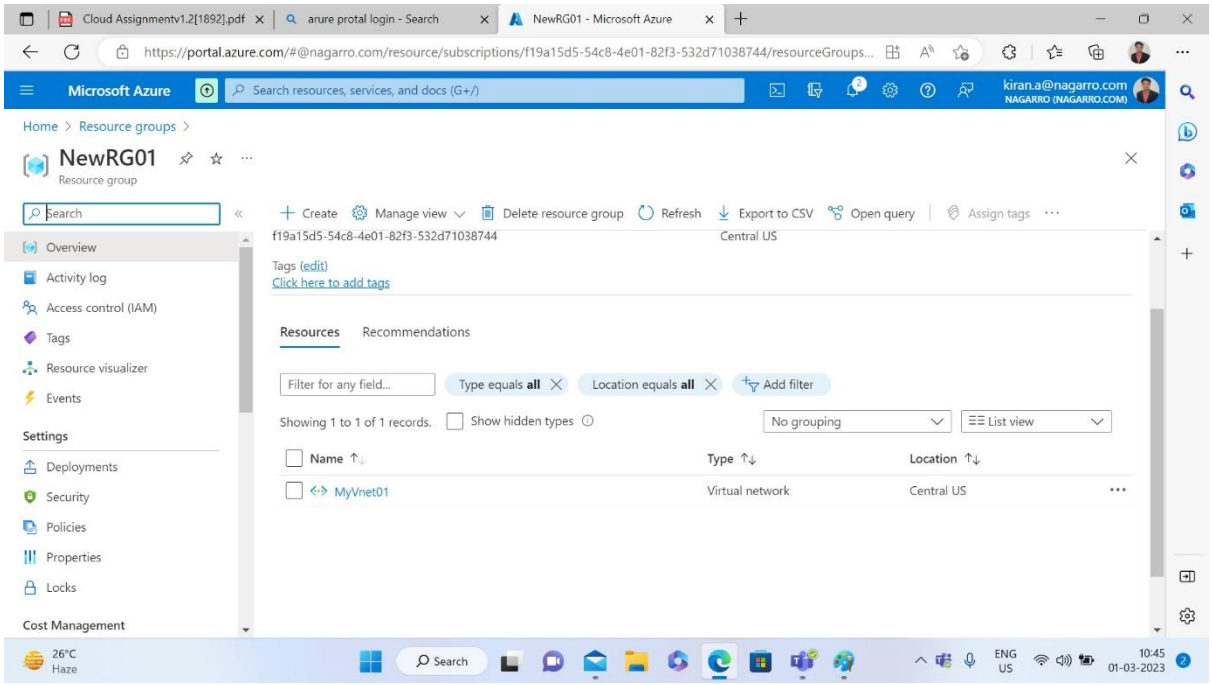
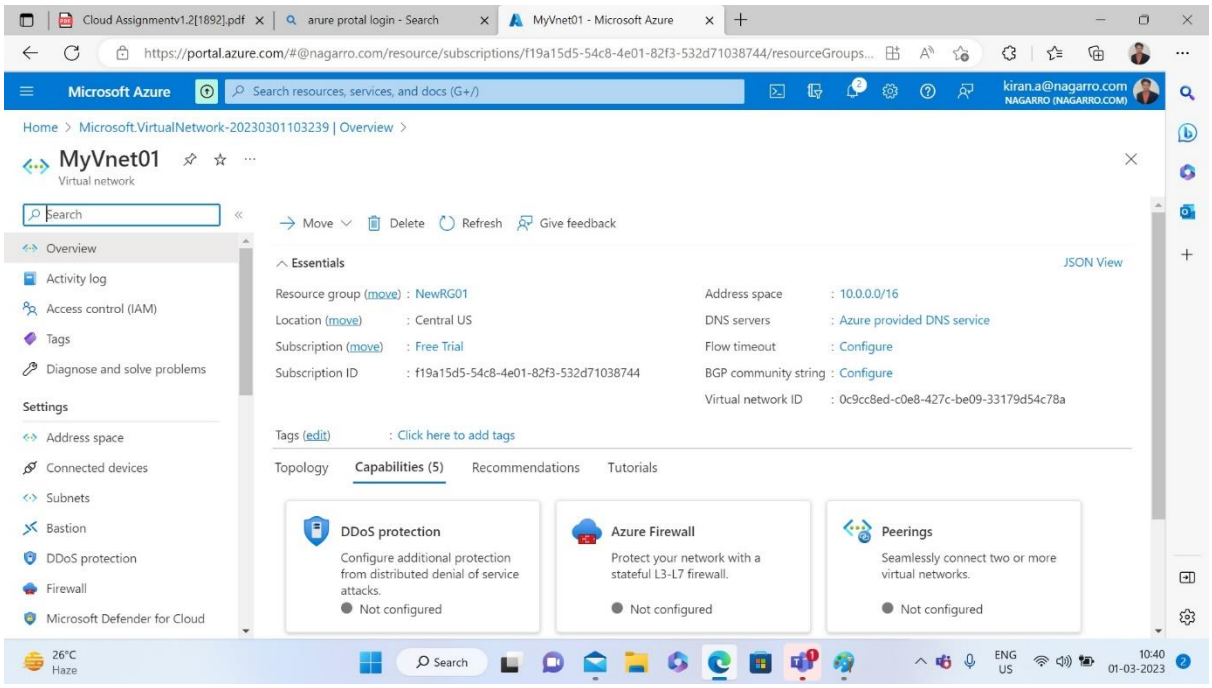
Azure Cloud Assignment

Create a virtual network with 2 subnet. Each subnet should have 16 Ips 0nly.

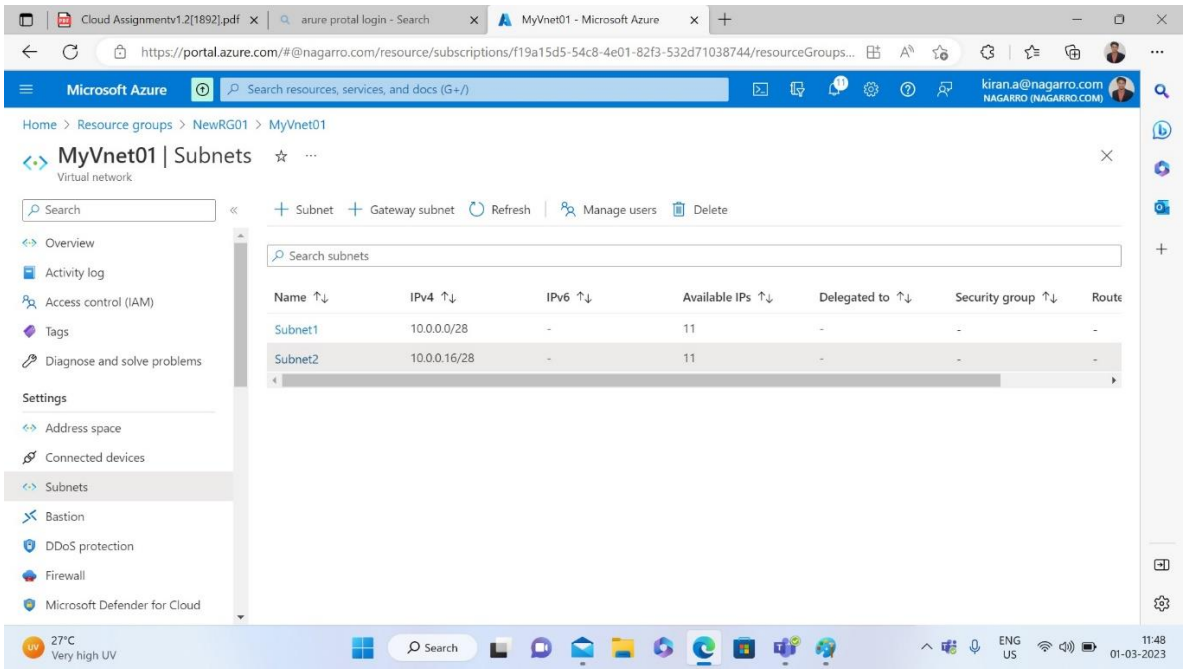
1. Creating virtual network



2. Creating resource group



3. Creating two subnets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Gateway subnet
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Manage users
Delete
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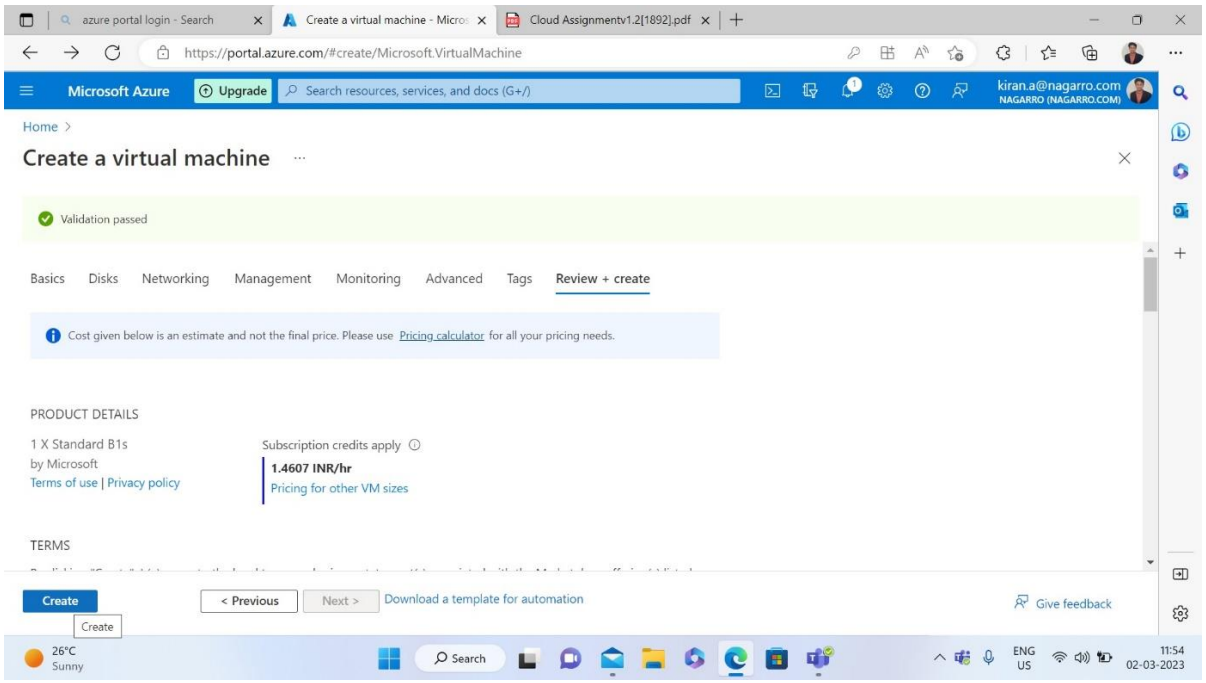
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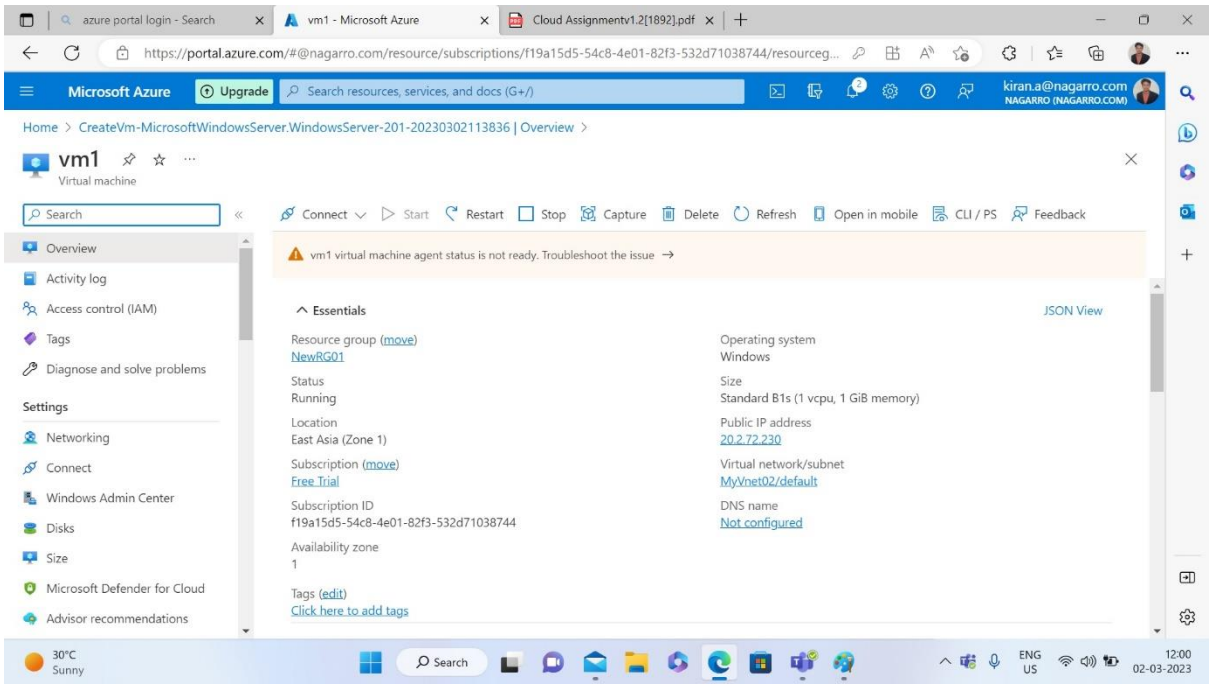
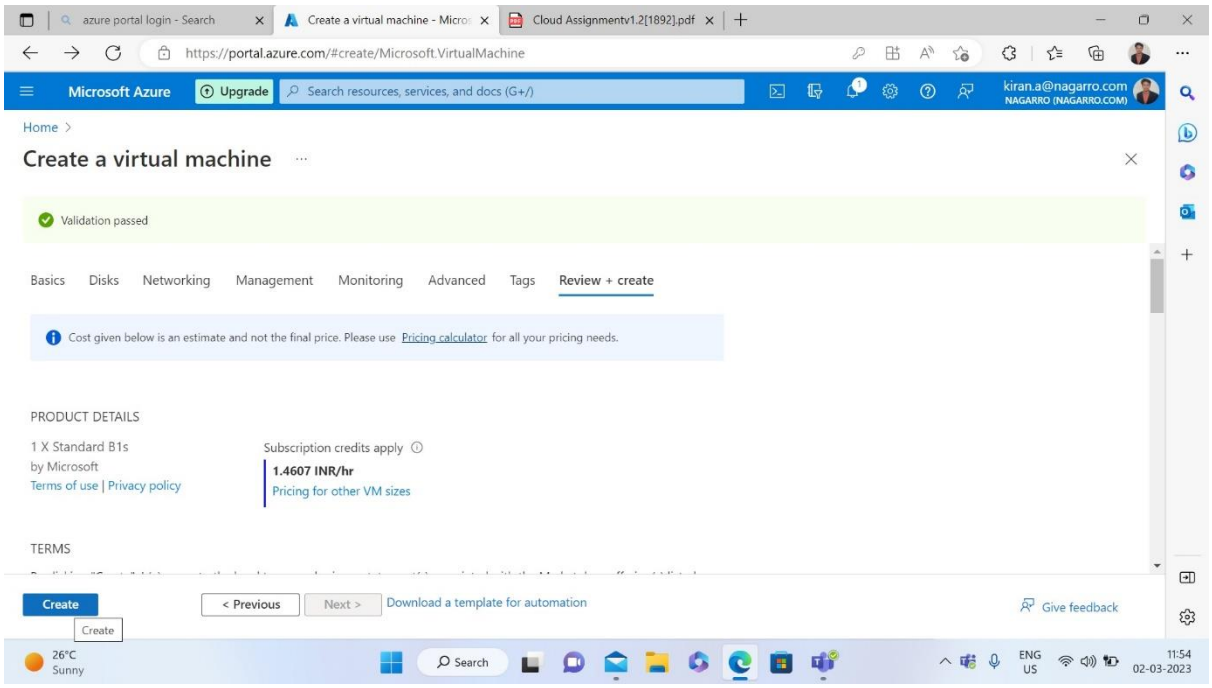
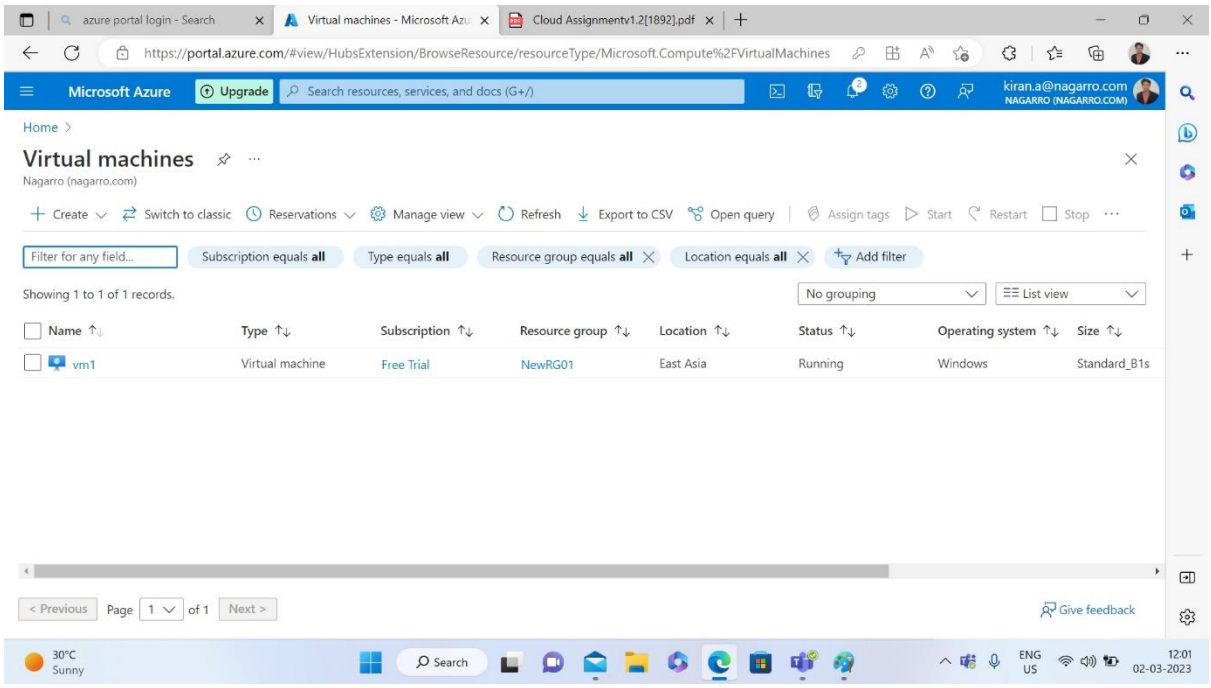


Inside one of the subnet, create a VM and deploy an application code inside it and it should leverage the database on the cloud(any existing application created by you before).

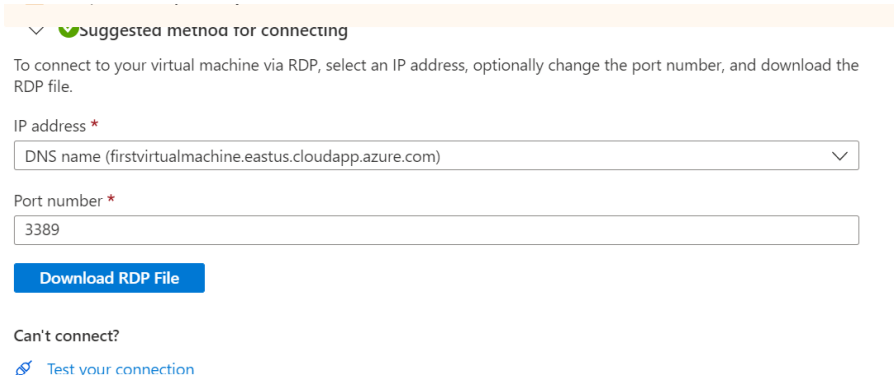
Click on Review + Create to review deploy VM.



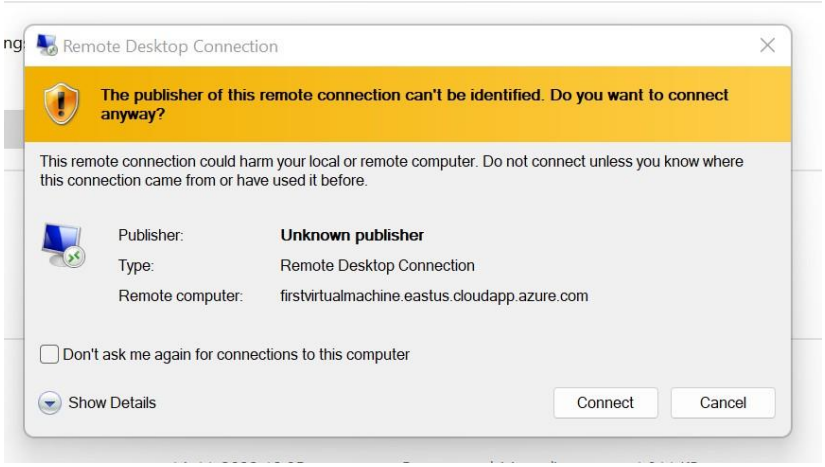
Inside one of the subnets, creating a VM

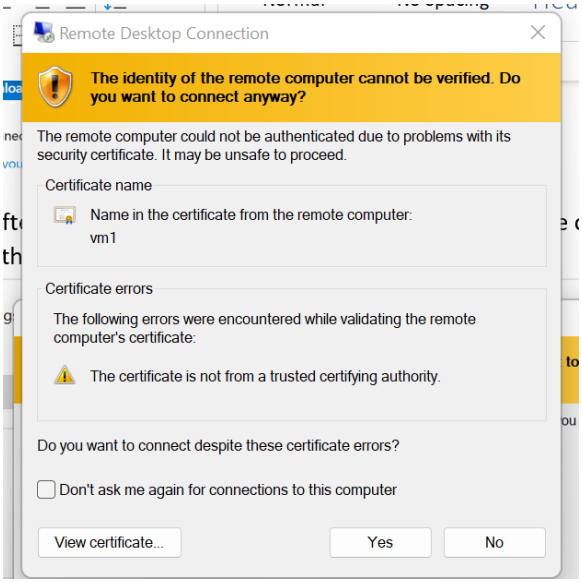


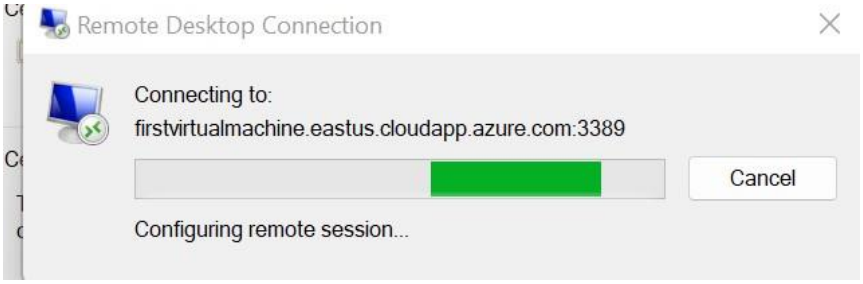
For running the virtual machine on the local computer then download the rdp fileafter clicking on the connect button.



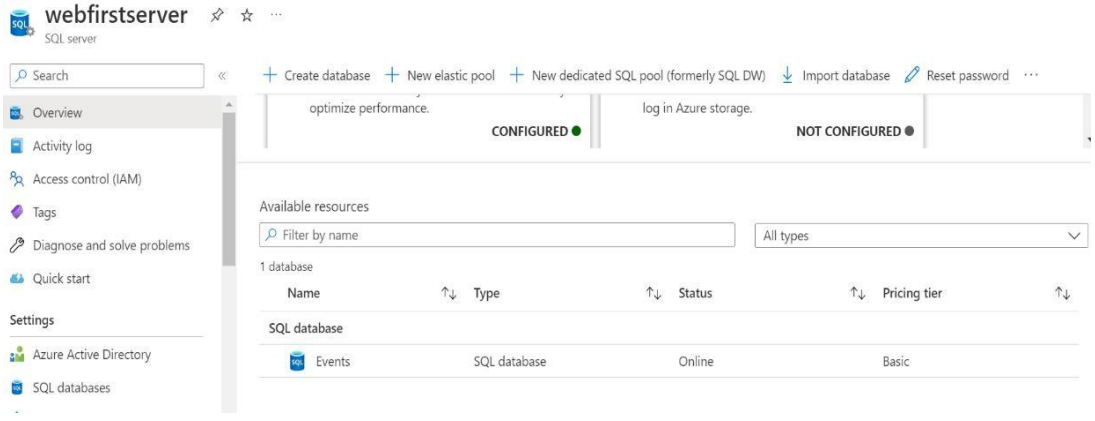
Then after downloading it run the rdp file and then enter the credentials to run thevirtual machine.

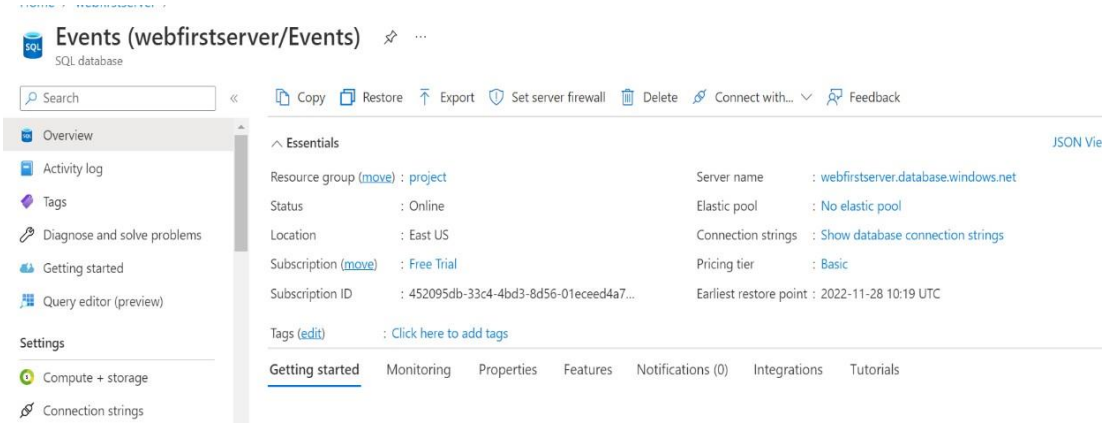




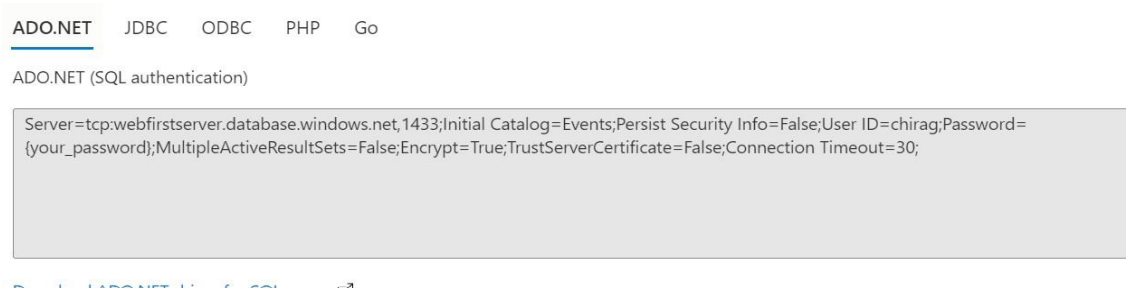


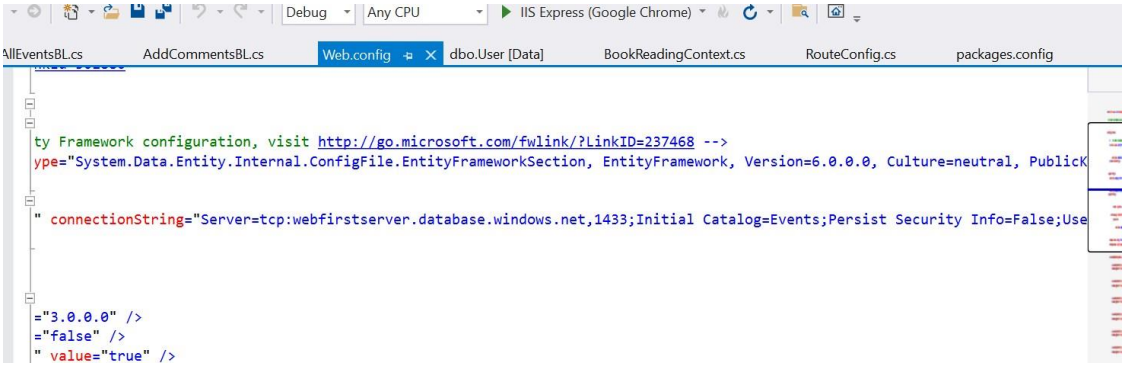
After finishing it open the azure webserver then the database will the there.



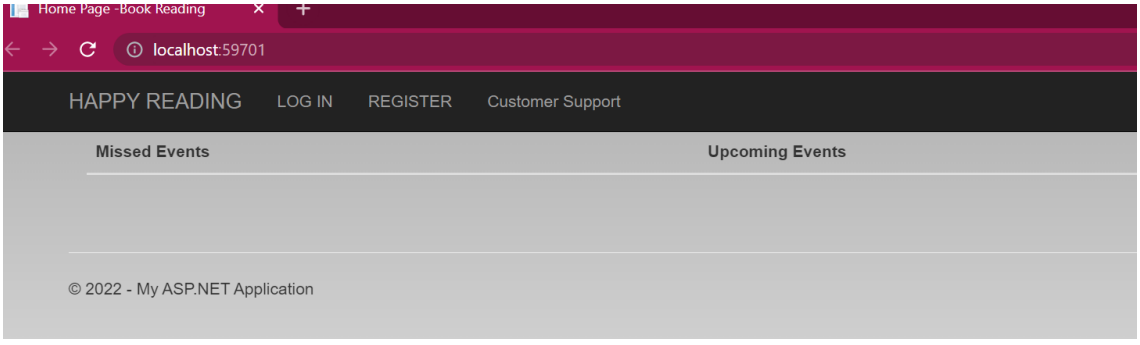


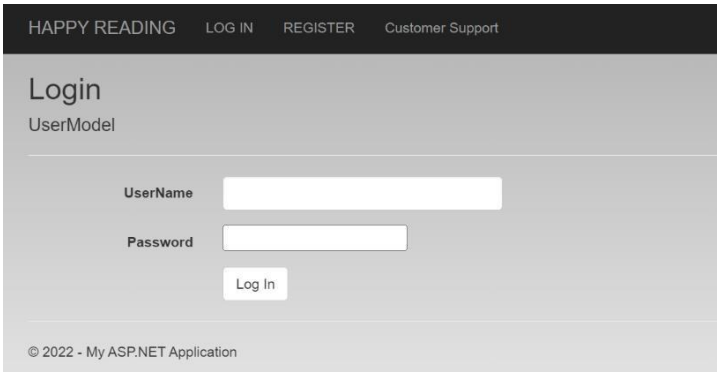
For connecting the application with azure database copy the connection string and then paste it in web.config file of application

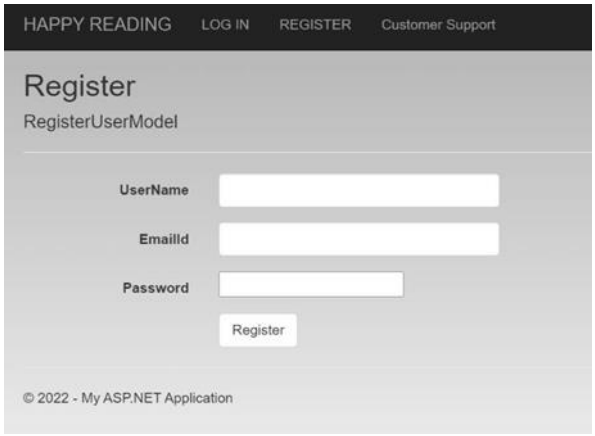


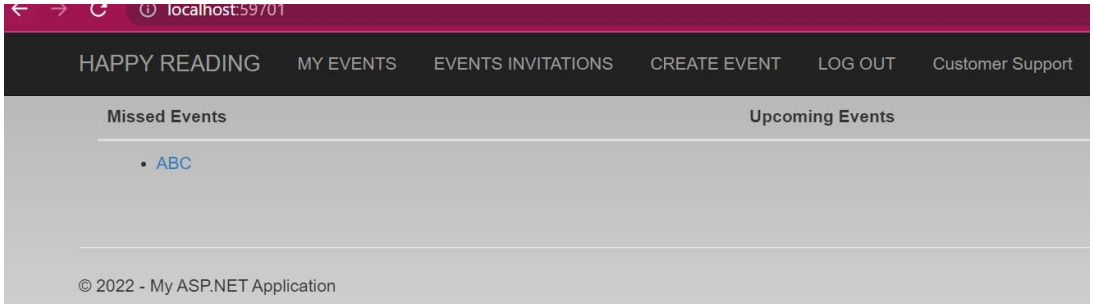


MVC Application



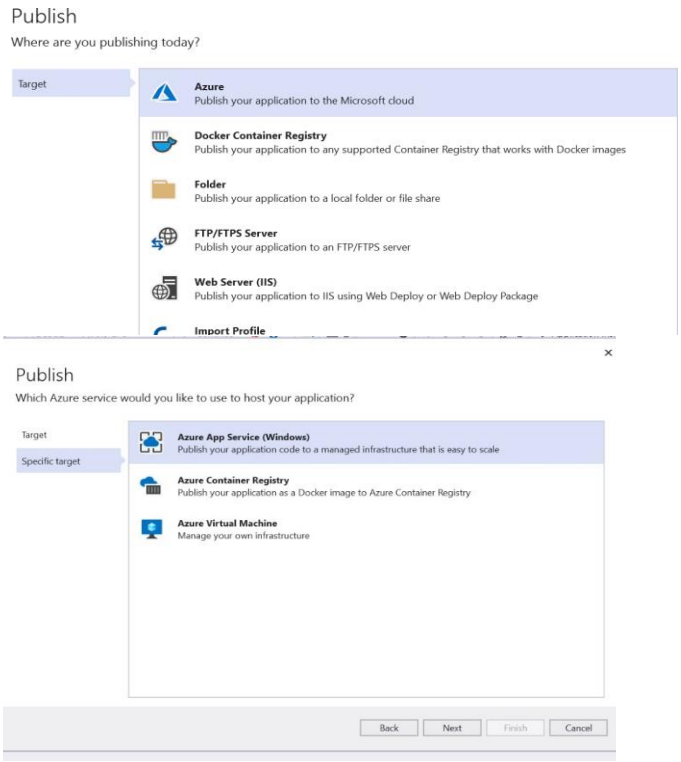


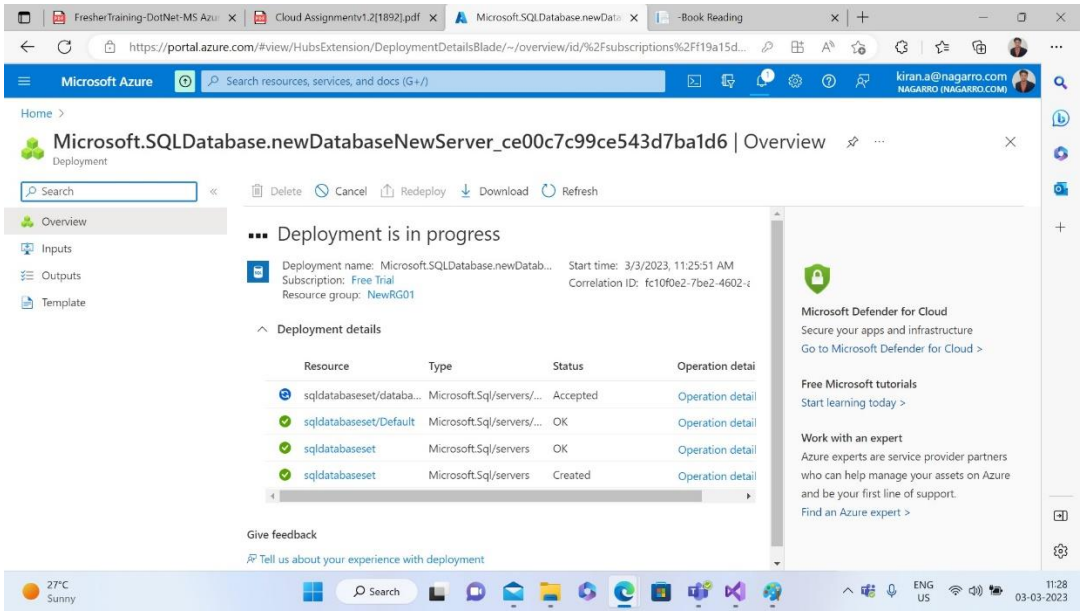




Deploy the same application to Azure App Service. It should alsoleverage the database on the cloud.

Open the visual studio the right click on the project and then click on the publishbutton.

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Resource group: NewRG01
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Deployment details
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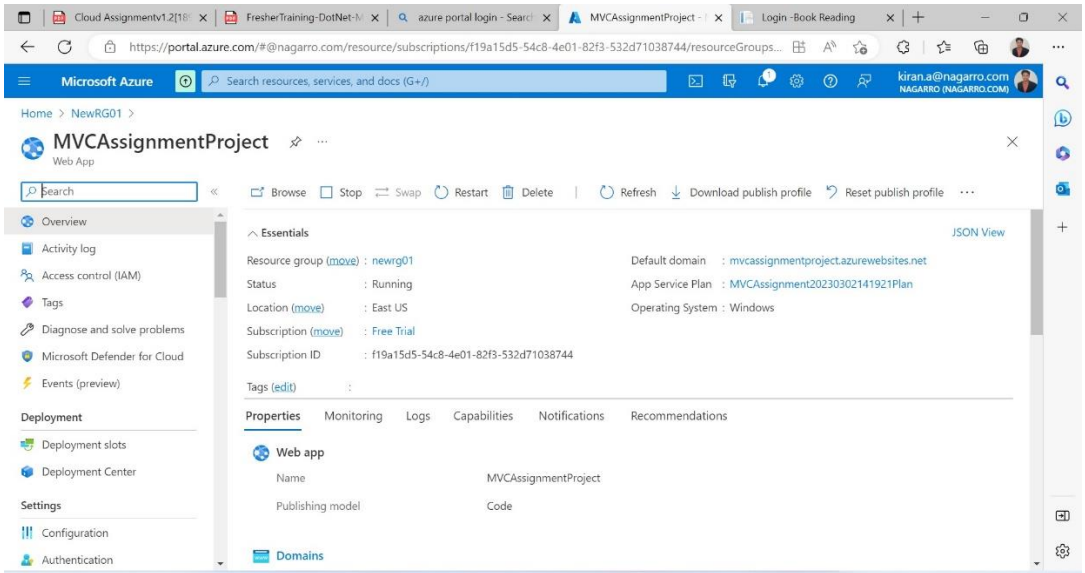
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Authentication
Browse
Stop
Swap
Restart
Delete
Refresh
Download publish profile
Reset publish profile
Essentials
JSON View
Resource group (move) : newrg01
Status : Running
Location (move) : East US
Subscription (move) : Free Trial
Subscription ID : f19a15d5-54c8-4e01-82f3-532d71038744
Tags (edit) :
Default domain : mvcassignmentproject.azurewebsites.net
App Service Plan : MVCAssignment20230302141921Plan
Operating System : Windows
Properties
Monitoring
Logs
Capabilities
Notifications
Recommendations
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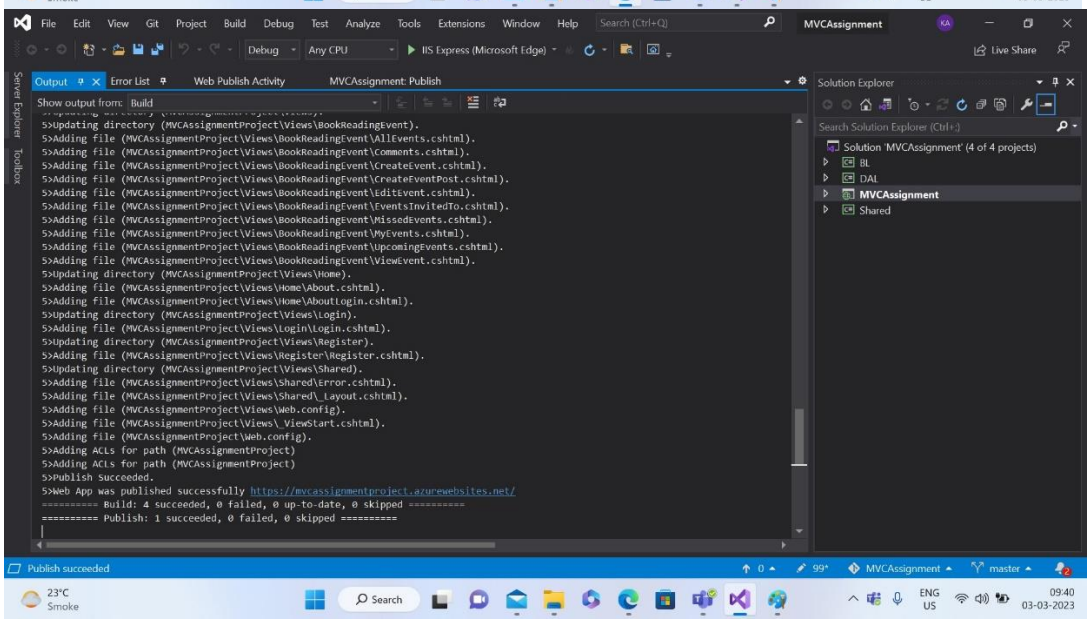
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MVCAssignment: Publish
Show output from: Build
5>Updating directory (MVCAssignmentProject\Views\BookReadingEvent).
5>Adding file (MVCAssignmentProject\Views\BookReadingEvent\AllEvents.cshtml).
5>Adding file (MVCAssignmentProject\Views\BookReadingEvent\Comments.cshtml).
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5>Adding file (MVCAssignmentProject\Views\Web.config).
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5>Web App was published successfully https://mvcassignmentproject.azurewebsites.net/
========== Build: 4 succeeded, 0 failed, 0 up-to-date, 0 skipped ==========
========== Publish: 1 succeeded, 0 failed, 0 skipped ==========
Solution Explorer
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Solution 'MVCAssignment' (4 of 4 projects)
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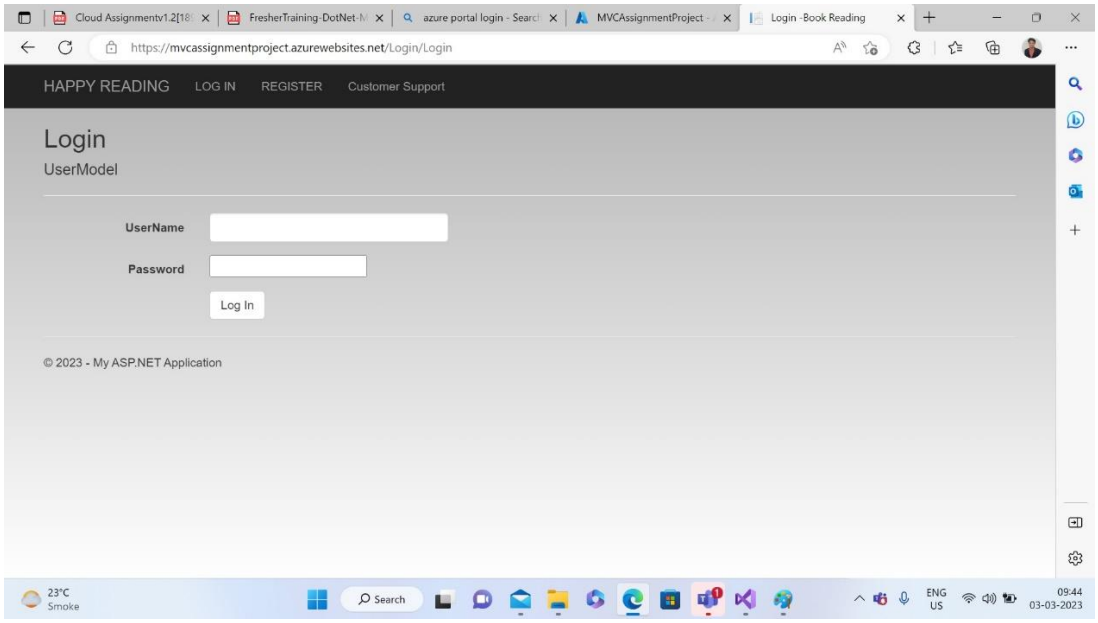
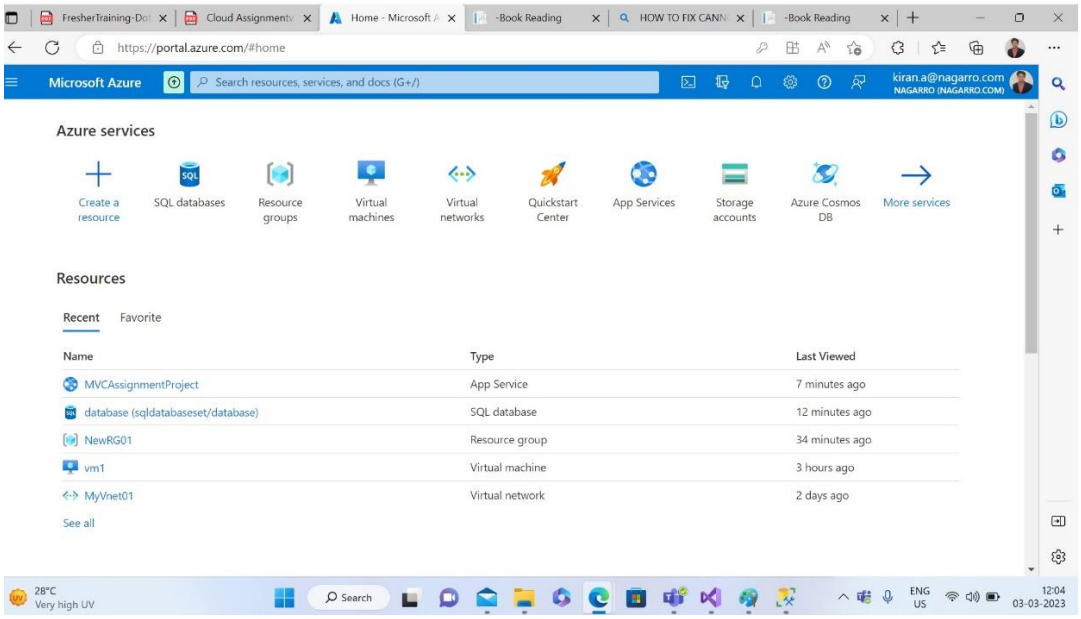
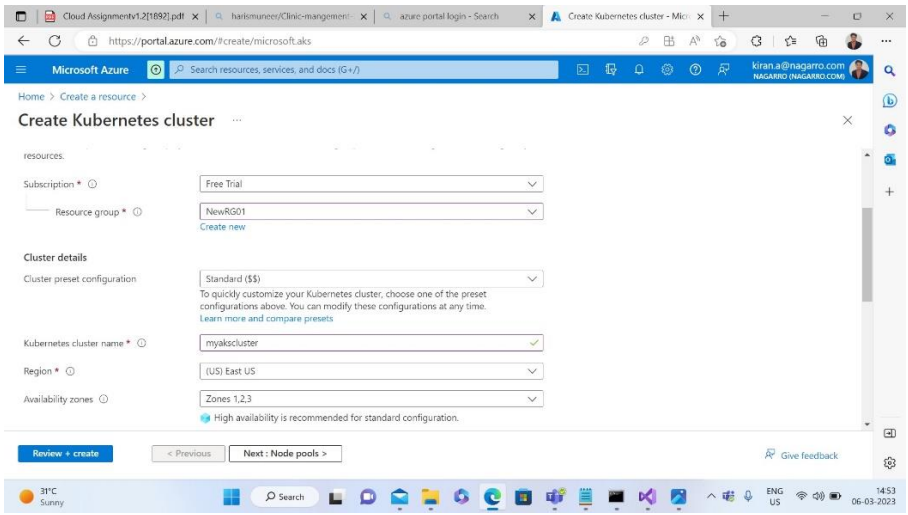


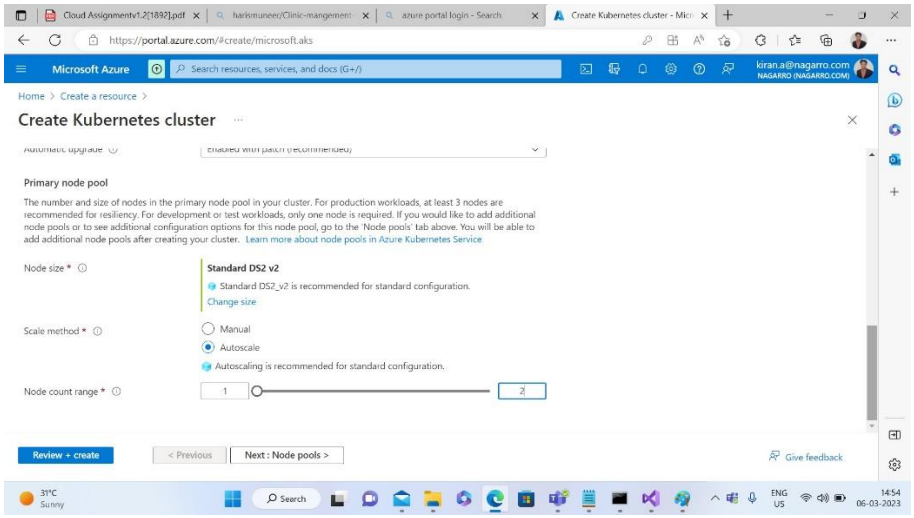


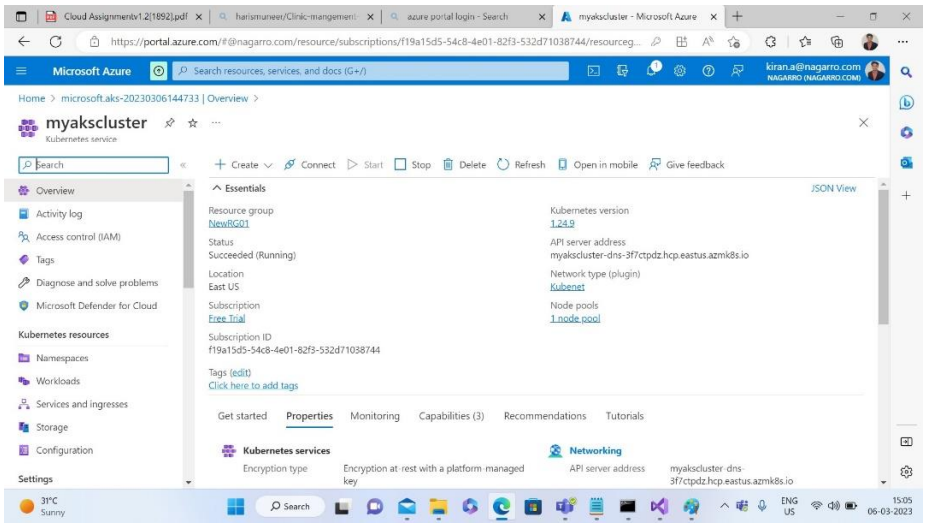
Create the AKS cluster (2 nodes, smallest size VM) and deploy any two services on it. Services should be accessible from the internet.

Creating a cluster

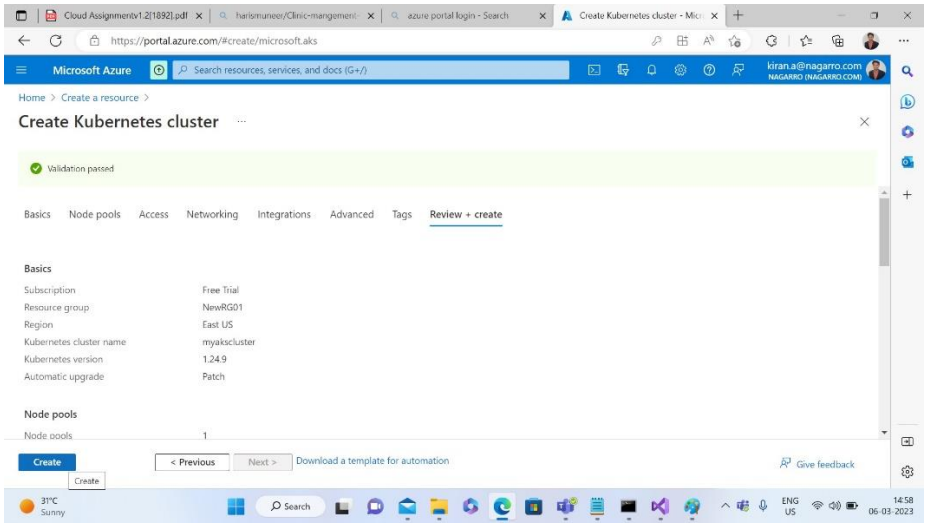


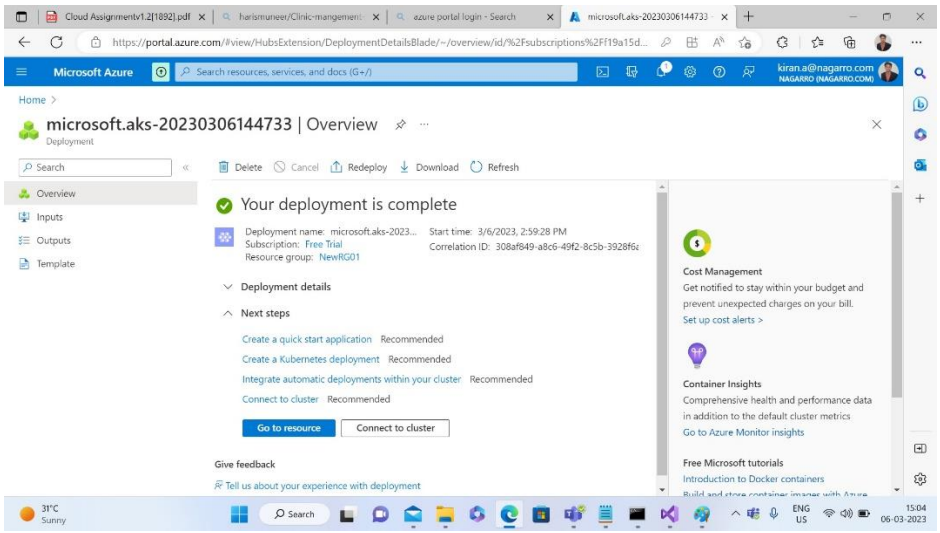
Creating two nodes



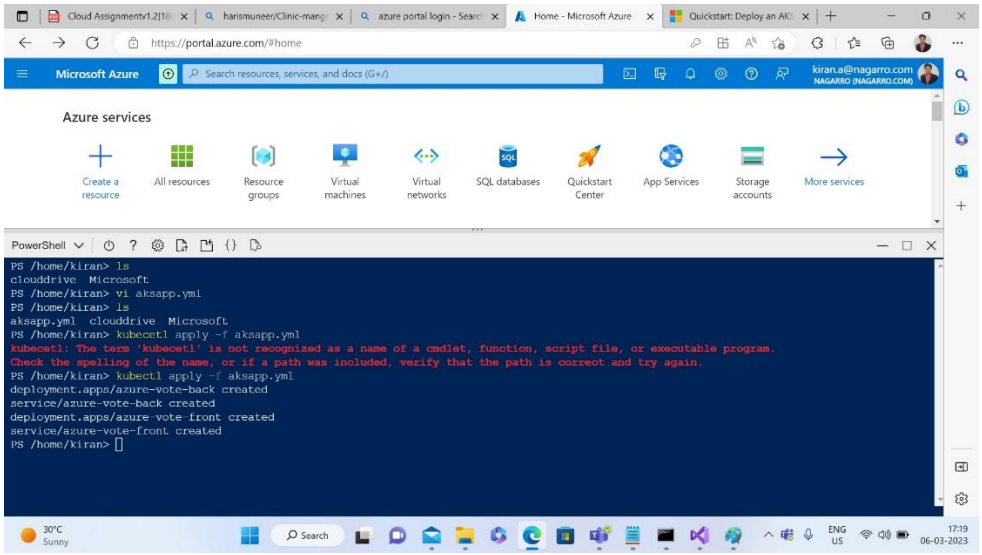


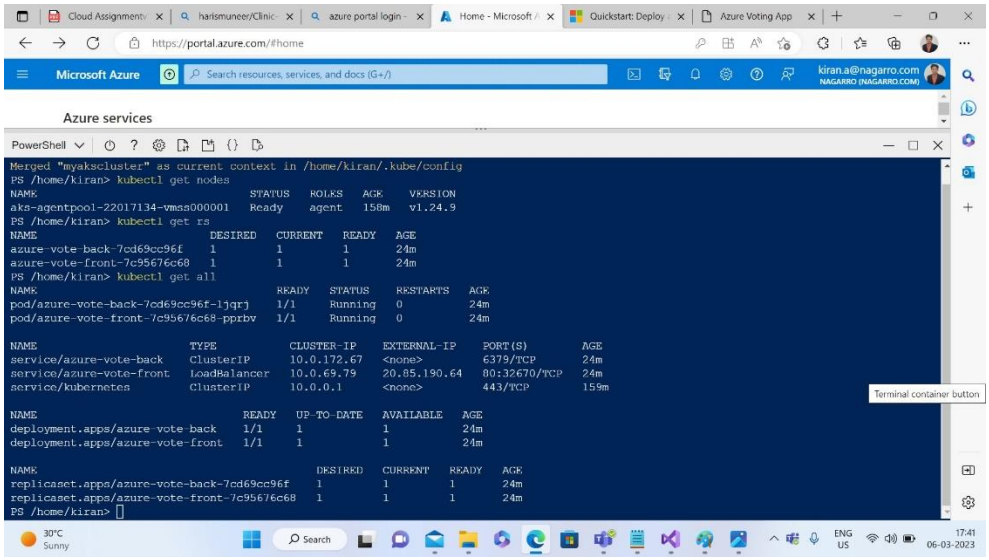
Click on Review + Create to reviw and cluster

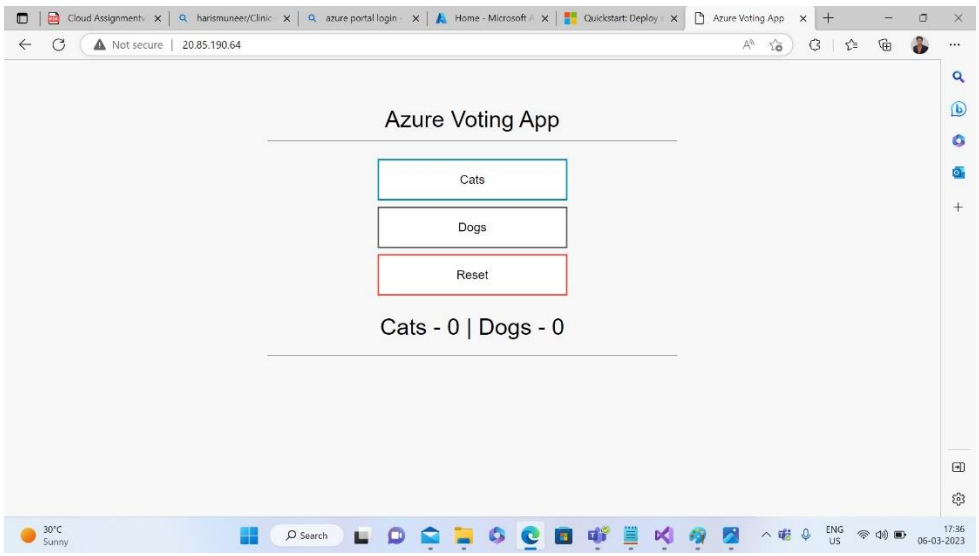




Using power shell connecting and create cluster







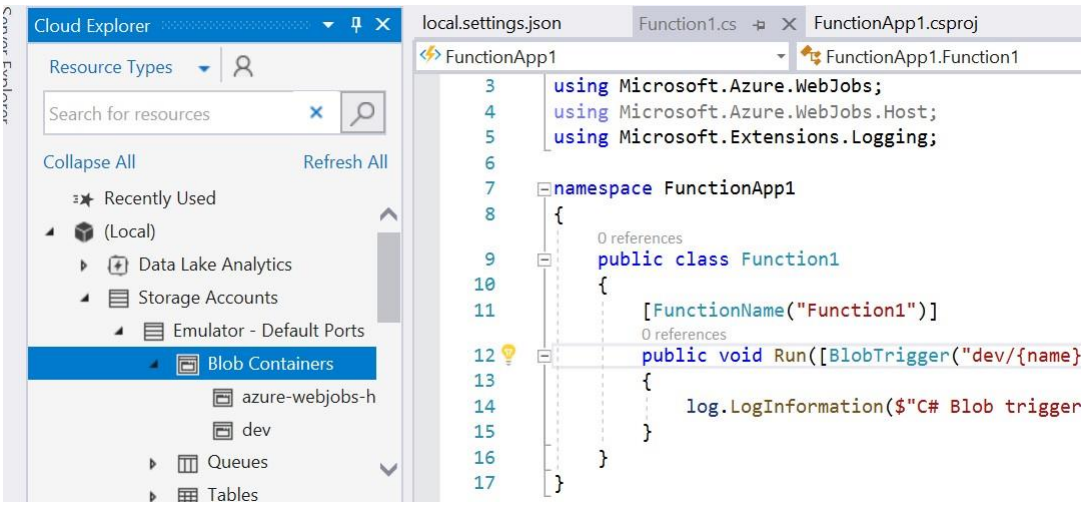
Create an Azure function that should trigger as soon as you upload a file inthe blob storage. Function should be able to print the name of the file uploaded in the function.

First create azure function project on the visual studio.

```
App1                    FunctionApp1.Function1          Run(Stream myBlob, string name, ILogger log)
using Microsoft.Azure.WebJobs;
using Microsoft.Azure.WebJobs.Host;
using Microsoft.Extensions.Logging;

namespace FunctionApp1
{
    0 references
    public class Function1
    {
        [FunctionName("Function1")]
        0 references
        public void Run([BlobTrigger("dev/{name}", Connection = "AzureWebJobsStorage")]Stream myBlob, string name, ILogger log
        {
            log.LogInformation($"C# Blob trigger function Processed blob\n Name:{name} \n Size: {myBlob.Length} Bytes");
        }
    }
}
```

Copy the connection from local.settings.json file and paste it in function argument .
Open the cloud explorer and the create the blob .



Initially we don't have any file in blob container so it will show us this.

```
Functions:

        Function1: blobTrigger

For detailed output, run func with --verbose flag.
[2022-11-29T10:39:20.589Z] Host lock lease acquired by instance ID '00000000000000000000000004FFA1F5E'.
```

Then upload the file in blob container named dev container.Then it will show us this.

```
Functions:

        Function1: blobTrigger

For detailed output, run func with --verbose flag.
[2022-11-29T10:39:20.589Z] Host lock lease acquired by instance ID '00000000000000000000000004FFA1F5E'.
[2022-11-29T10:41:57.080Z] Executing 'Function1' (Reason='New blob detected: dev/azure screenshots.docx', Id=32b800f5-eb
5b-494c-bcb4-2497fde9ed6d)
[2022-11-29T10:41:57.084Z] Trigger Details: MessageId: 767bd5b3-851f-4733-8b3a-2a42801ca241, DequeueCount: 1, InsertionT
ime: 2022-11-29T10:41:56.000+00:00, BlobCreated: 2022-11-29T10:41:54.000+00:00, BlobLastModified: 2022-11-29T10:41:54.00
0+00:00
[2022-11-29T10:41:57.088Z] C# Blob trigger function Processed blob
 Name:azure screenshots.docx
 Size: 394715 Bytes
[2022-11-29T10:41:57.101Z] Executed 'Function1' (Succeeded, Id=32b800f5-eb5b-494c-bcb4-2497fde9ed6d, Duration=92ms)
```