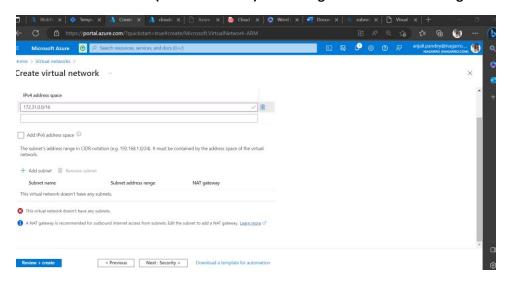
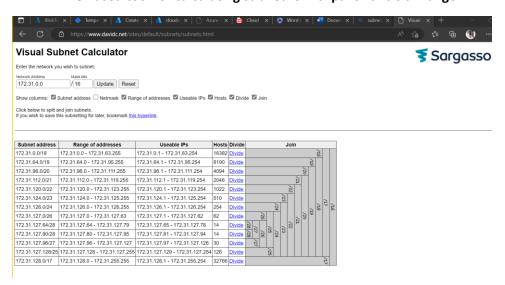
## 1). Create a virtual network with 2 subnets. Each subnet should have 16 lps only

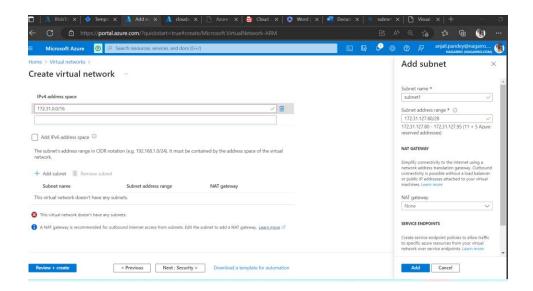
• I went to Vnet (virtual network) and configured it with a cidr range 172.31.0.0/16.



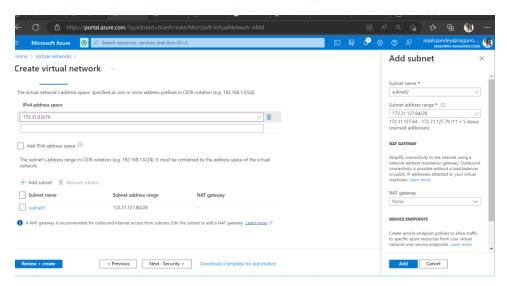
Then used tool for calculating subnet for 16 ips for this cidr range



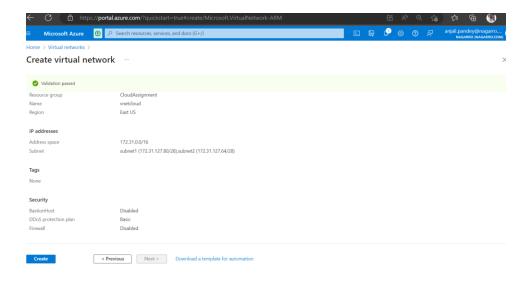
• Calculated 2 subnets for 16 ips 172.31.127.64/28 and 172.31.127.80/28, created one subnet with no nat gateway because we does not wanted to private subnet.



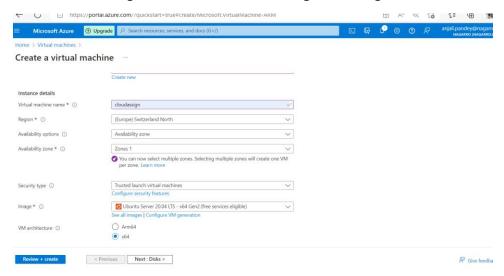
Created 2<sup>nd</sup> subnet



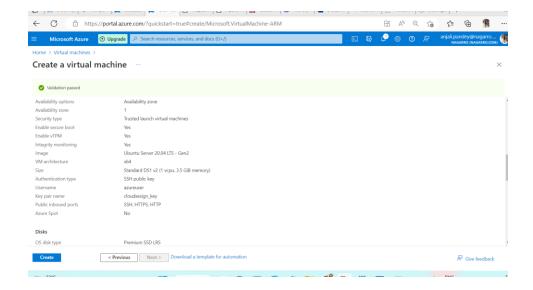
Now we can create and whole setup is done for vnet and subnet.



- 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)
  - For creating vm search vm and the change the configration



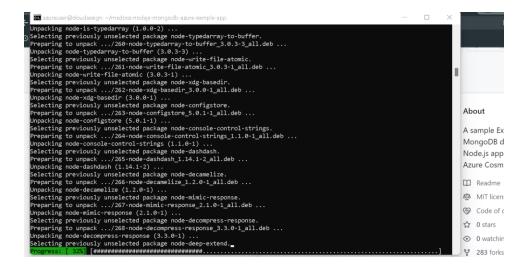
 Choose the same subdomain and click on create with default configuration added two more ports 80 and 443



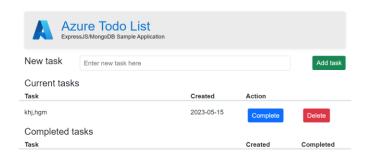
Then ssh into vm and start setting up application



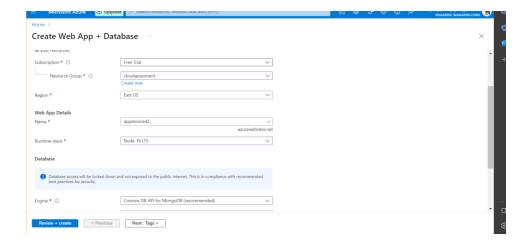
• Then cloned application from my github repo and installing node and npm.



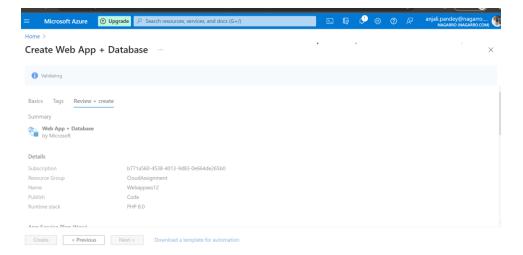
Then Npm I and npm run start and application started working



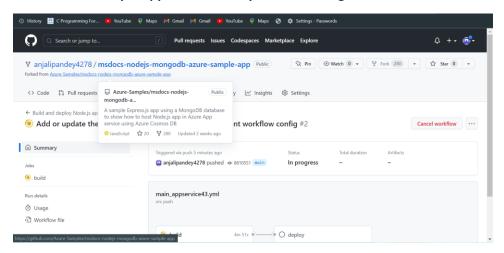
- 3). Deploy the same application to Azure App Service. It should also leverage the database on the cloud.
  - For creating this we choose webapp + database and provided information there



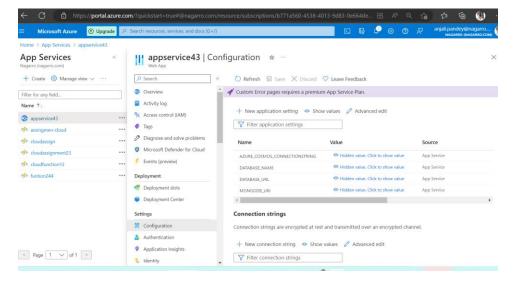
• Then clicked on review + create



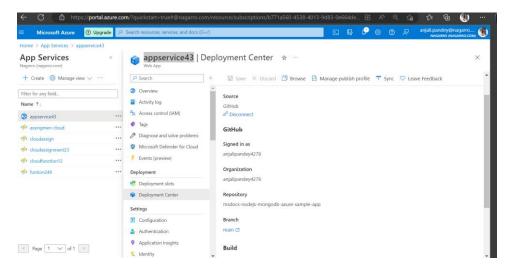
Used sample application for express and mongo db



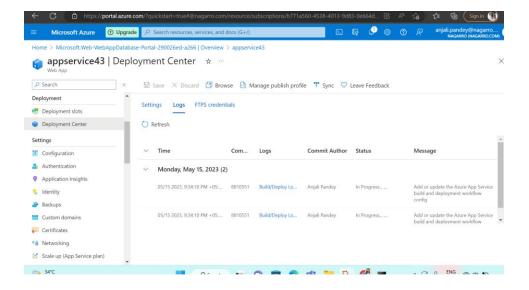
Added env for database string and name



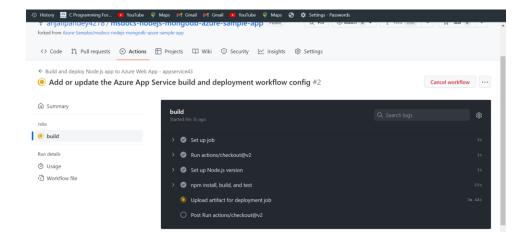
Went to deployment center and configured the github and added the branch



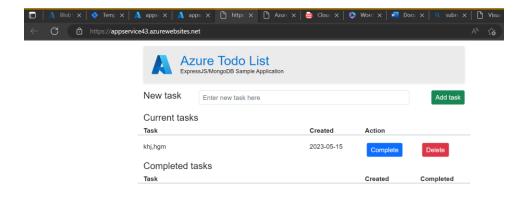
• Then deploy the one ci/cd will run as a deployment part which we can take a look in portal



• We can check in github track that also

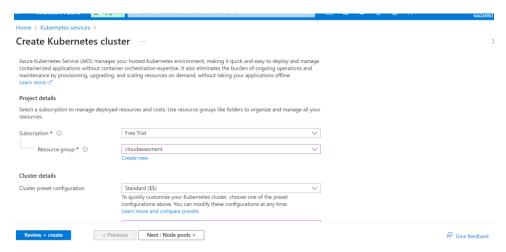


• After deployment we can use the app domain appservice43.azurewebsites.net

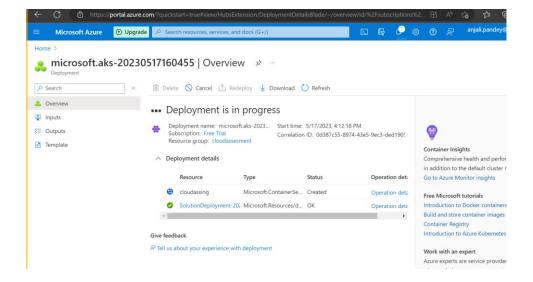


We can check there.

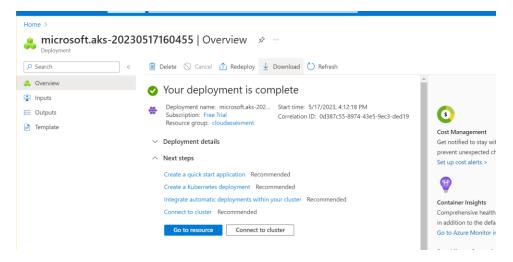
- 4). Create the AKS cluster (2 nodes, smallest size VM) and deploy any two services on it. Services should be accessible from the internet.
  - Went to Kubernetes cluster and click there



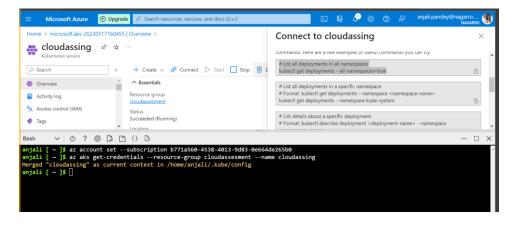
And choose 2 node which we want use so core will be 4 then with default setting and create



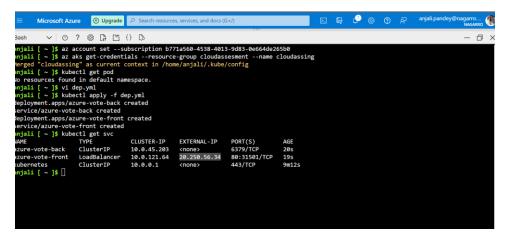
When deployment completed we can go to resource



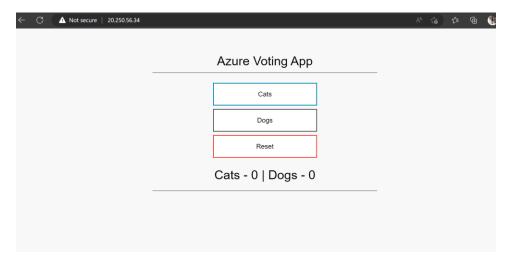
• Then I have used cloudshell for deployment and accessing the cluster



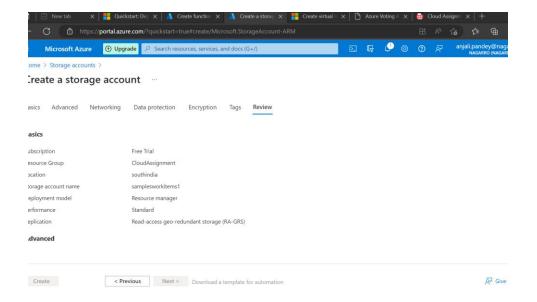
• Then created one dep.yml file where created 2 service which are fronted and backend



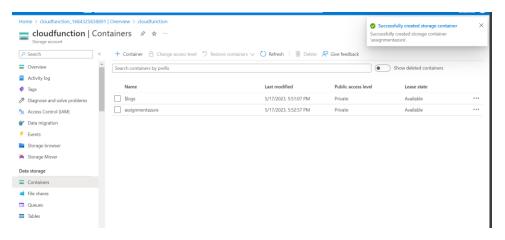
• We created frontend with loadbalancer so got the external ip 20.250.56.34



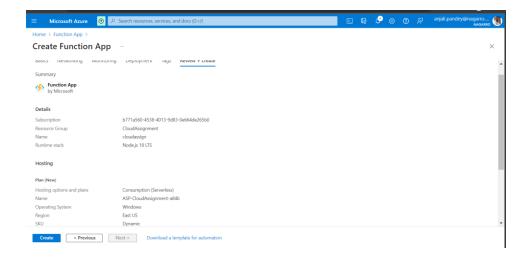
- 5). Create an Azure function that should trigger as soon as you upload a file in the blob storage. Function should be able to print the name of the file uploaded in the function.
  - Created storage blob with name



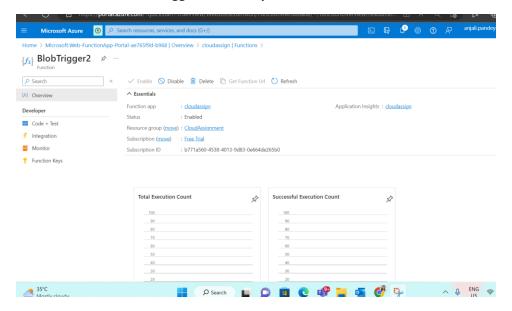
• Then created container inside the storage blob



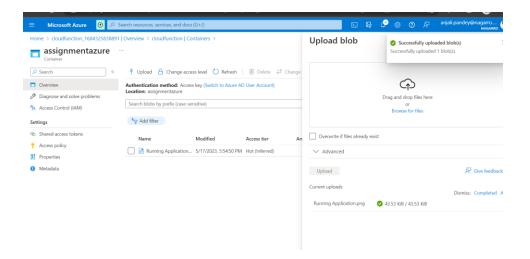
Then created function



• Then created a trigger for blob upload and created function for that



• Then upload the object and function will trigger.



• Then function will trigger and give output

