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Enrolment Number: 21162101007
Sub: CS

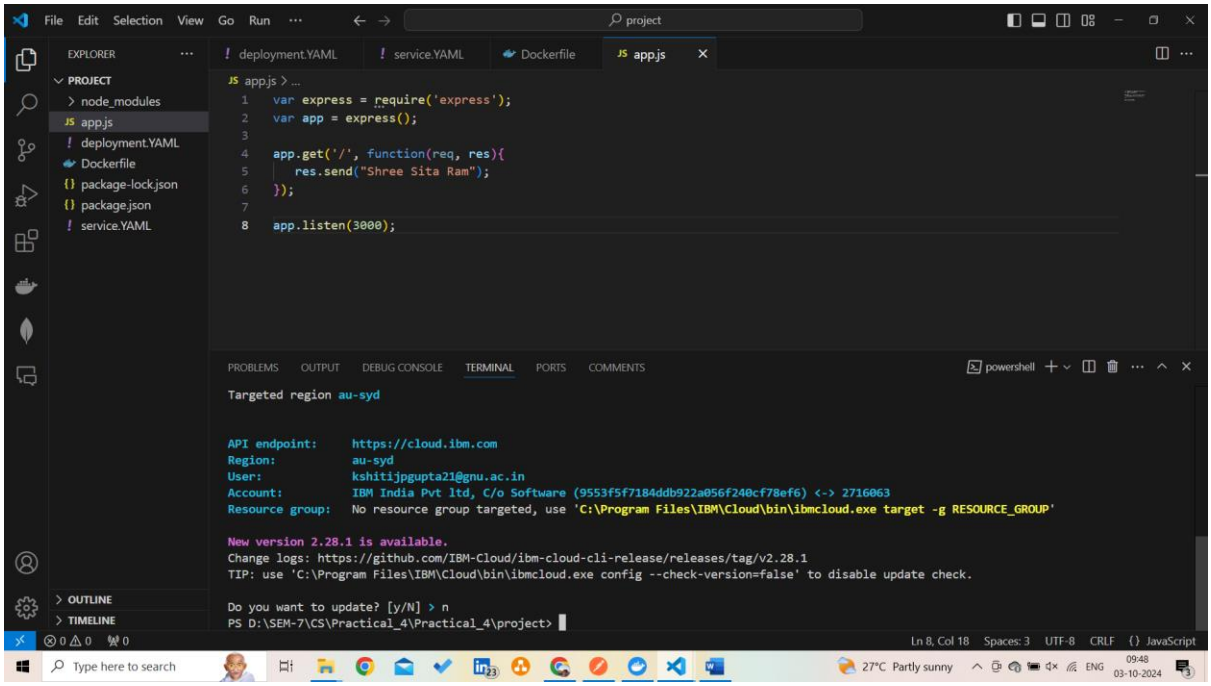
Practical – Exam [Batch-71]

Step-1 build the image and run the image also login through CLI

docker build -t internal-exam-img.

docker run --name C_internal -p 3000:8000 internal-exam-img

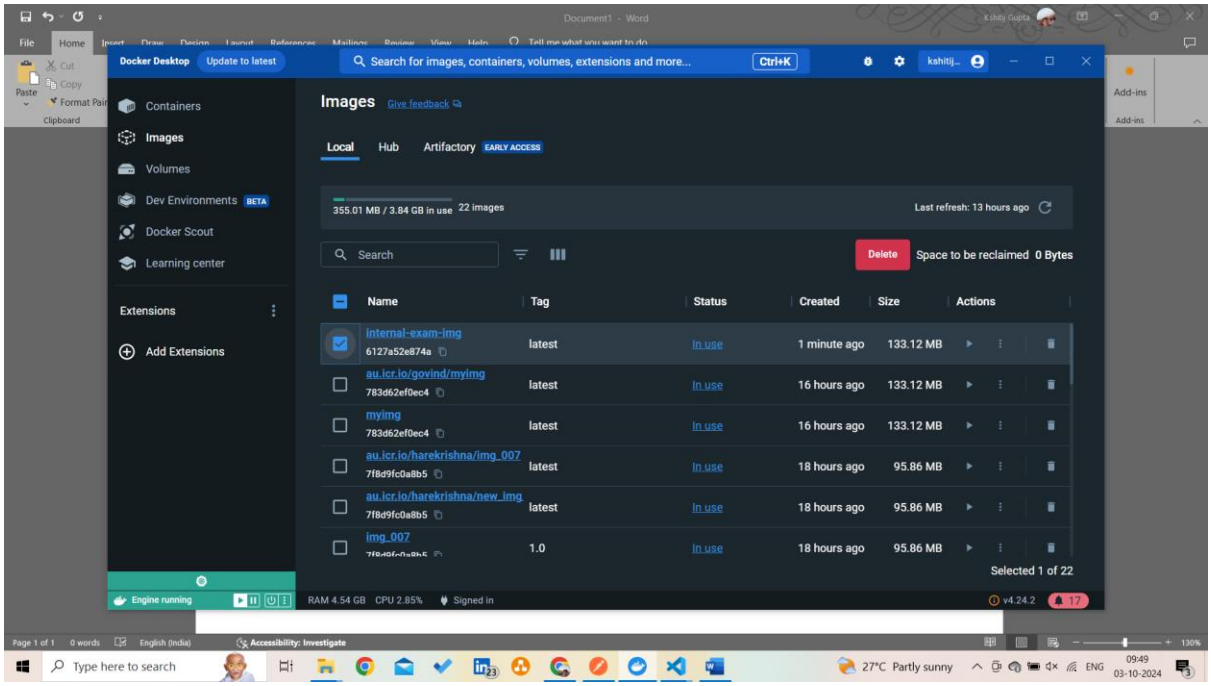
login through CLI

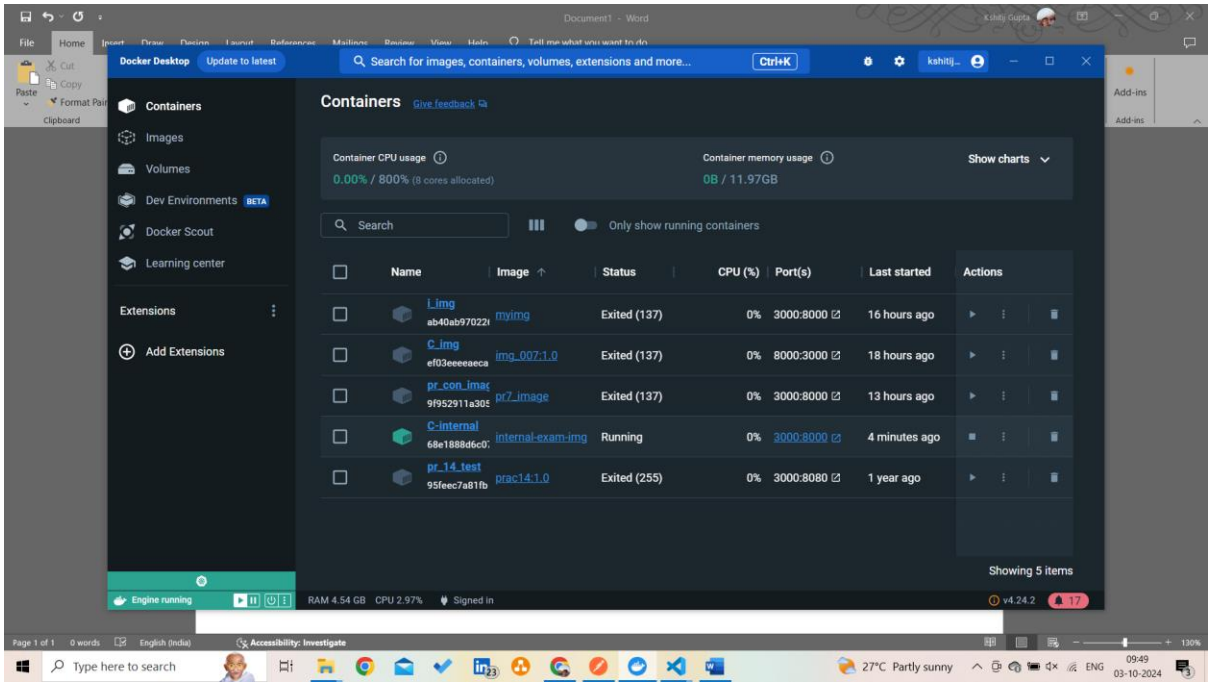


You can see my runig image and container imgae

Image name: internal-exam-img

Container image name: C-img

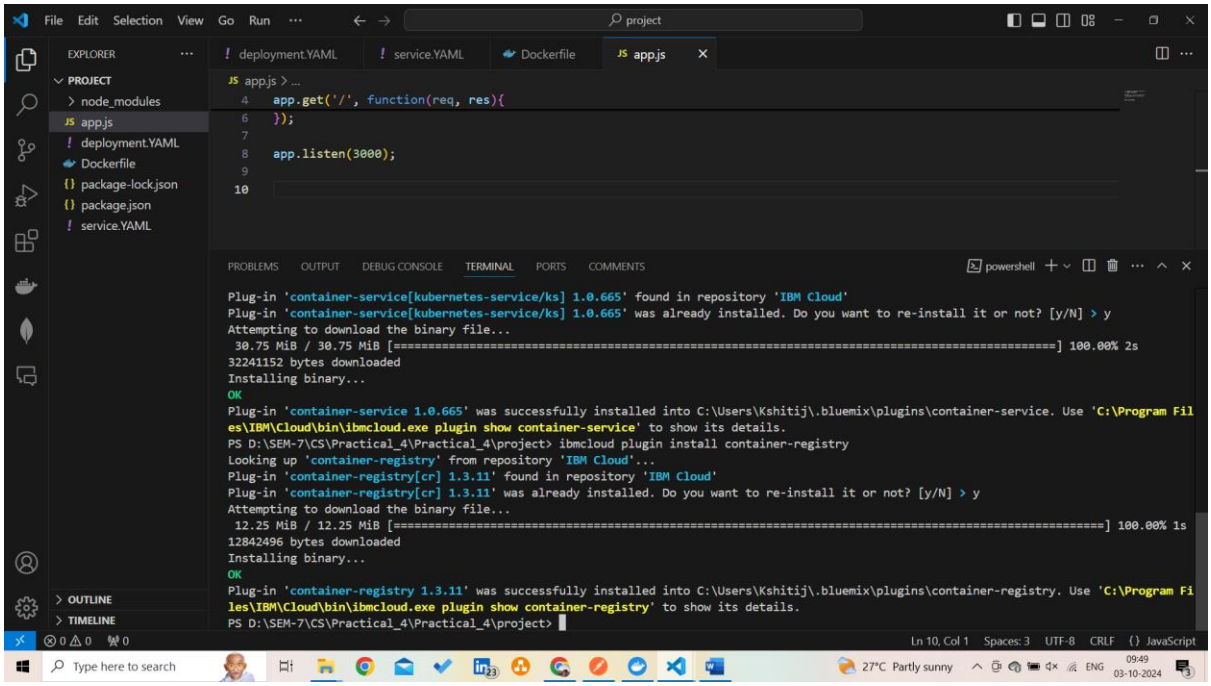




- Install the some necessary plugins

ibmcloud plugin install container-service

ibmcloud plugin install container-registry



- Target your service and and login into your account

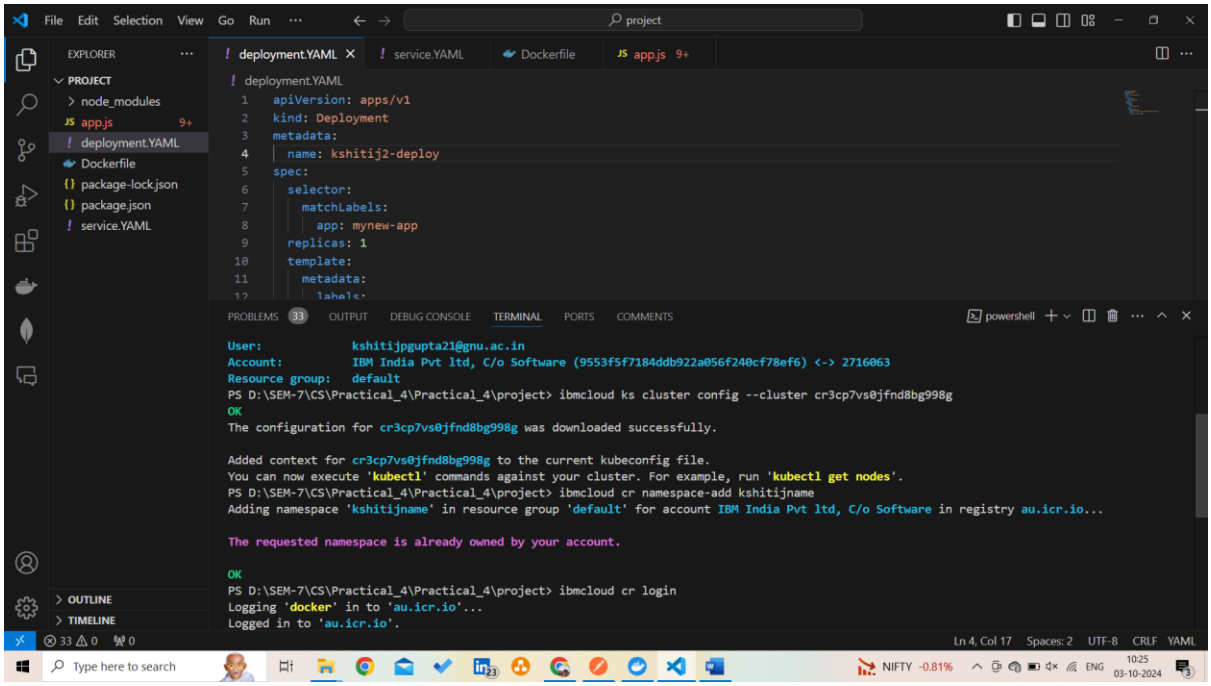
ibmcloud target -g default

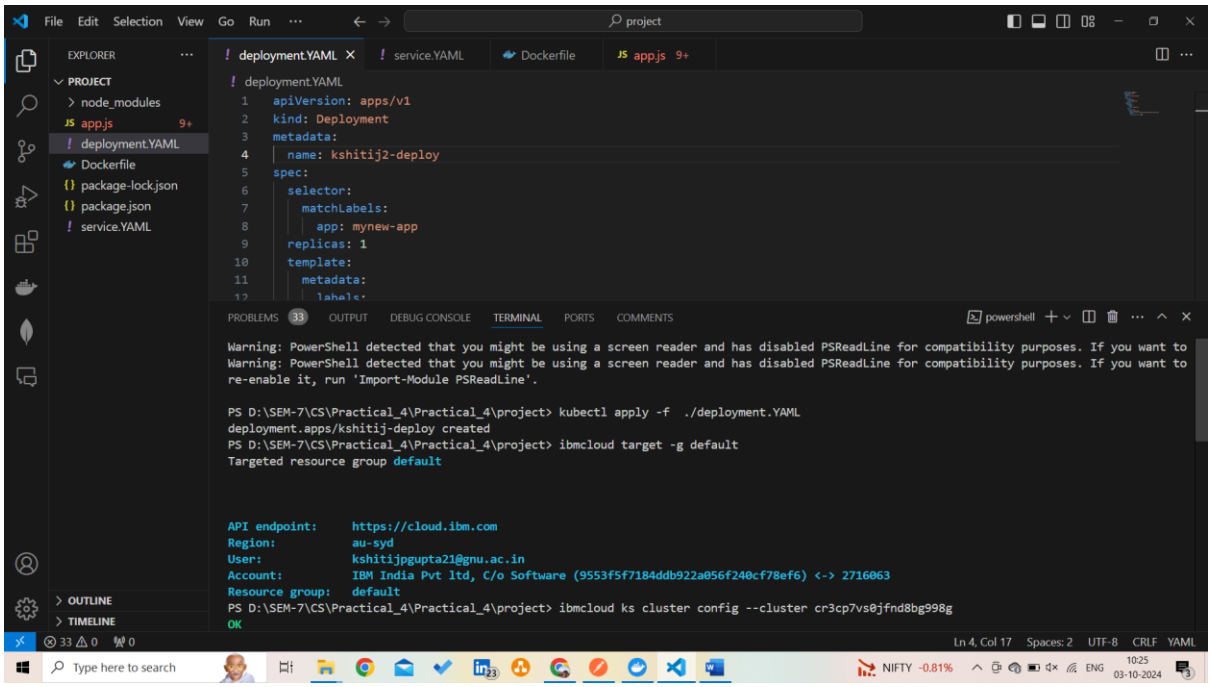
ibmcloud ks cluster config - -cluster c_id

- create your namespace

ibmcloud cr namespace-add kshitijname {to add namespace in registry}

ibmcloud cr login {login into namespcae}





- Tag your image and push it into namespace

docker tag internal-exam-img au.icr.io/kshitijname/internal-exam-img

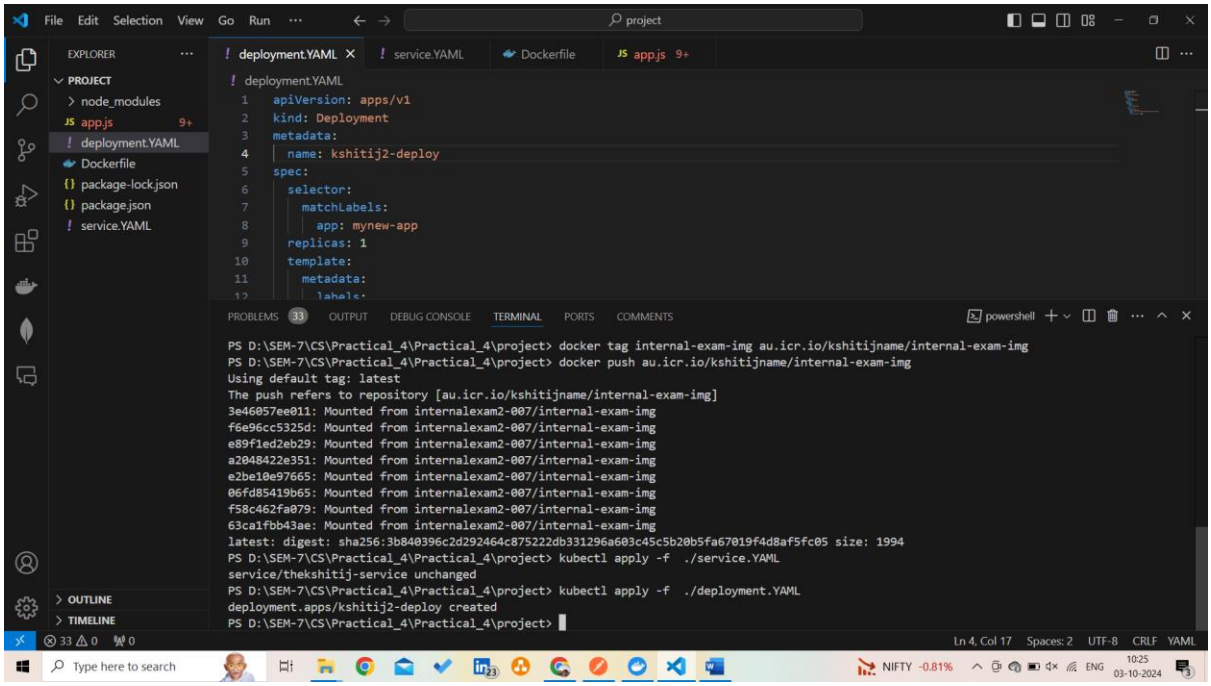
docker push au.icr.io/kshitijname/internal-exam-img

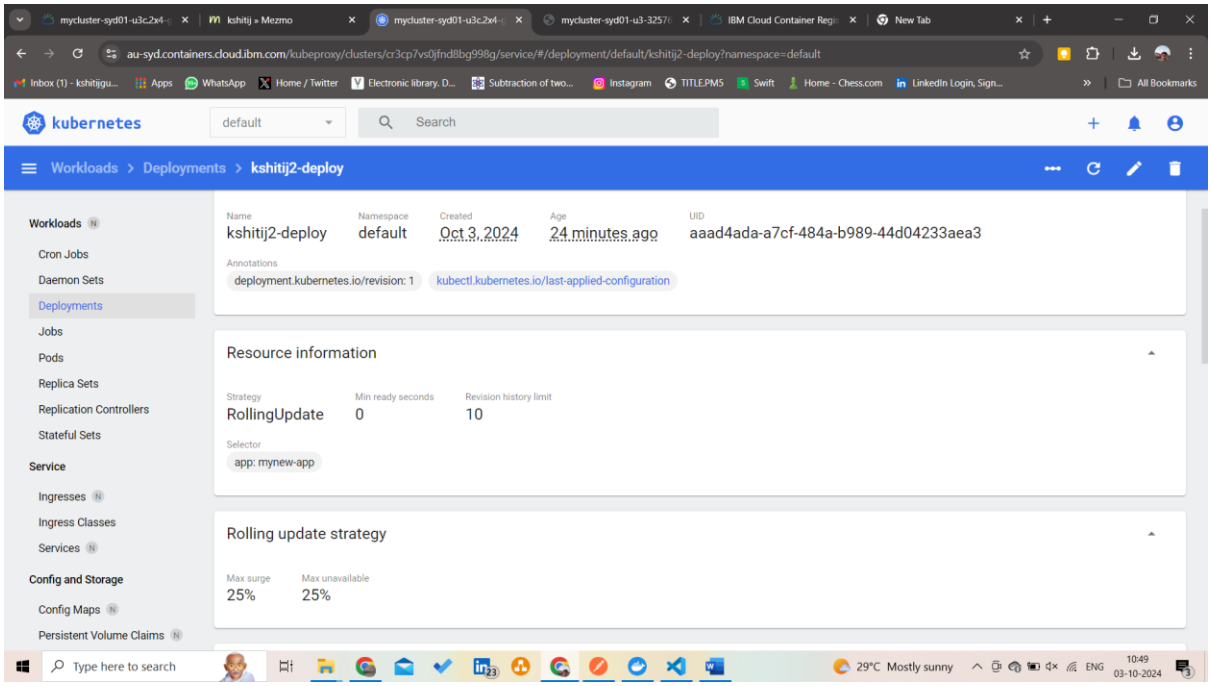
check deployment and service file and then deploy it

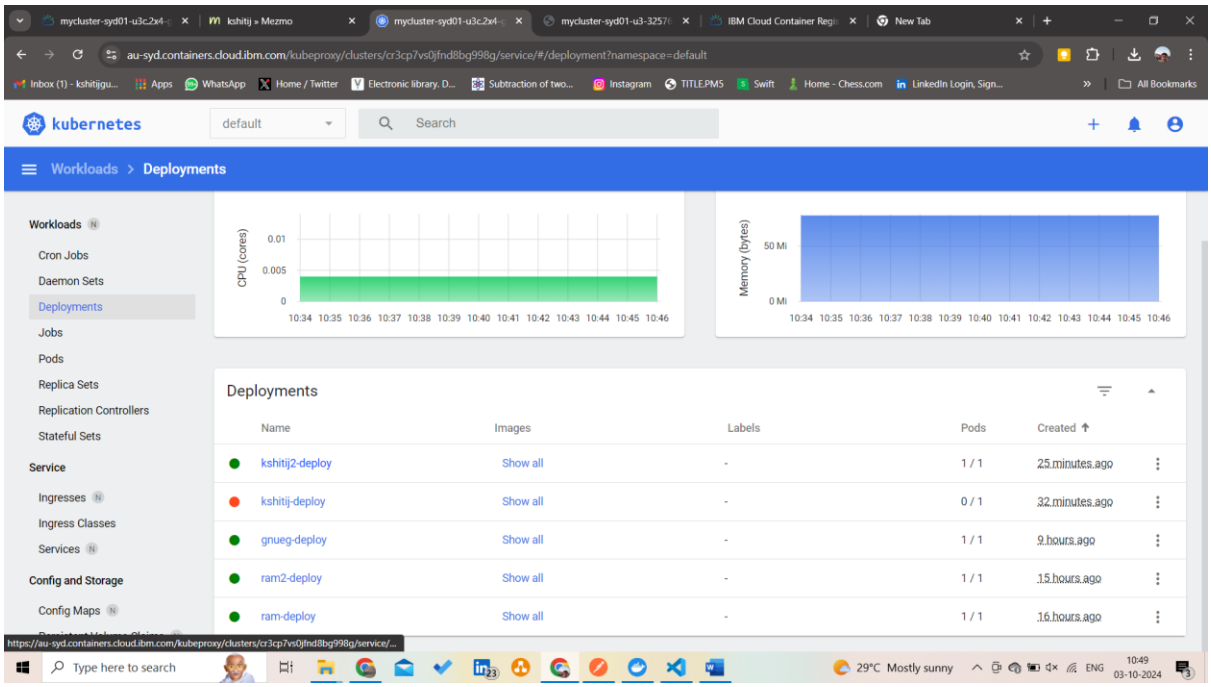
- and create deployment

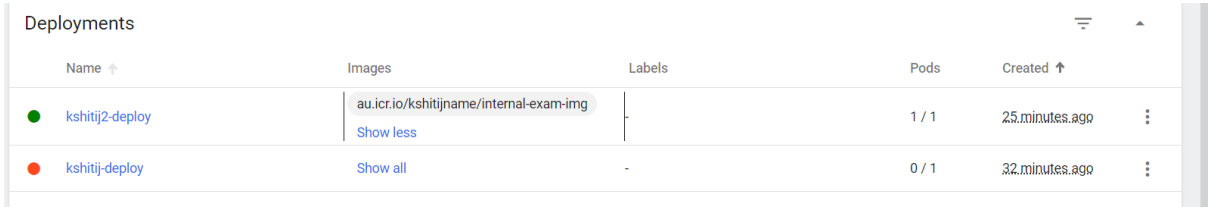
kubectl apply -f ./service.YAML

kubectl apply -f ./deployment.YAML

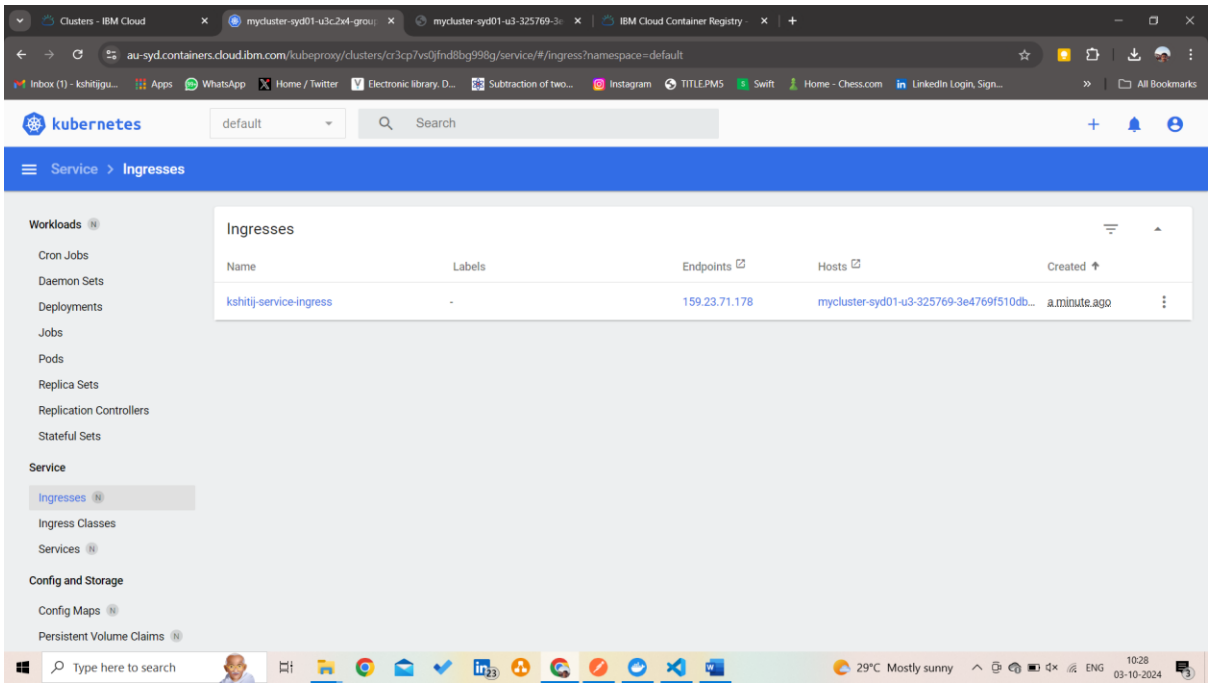


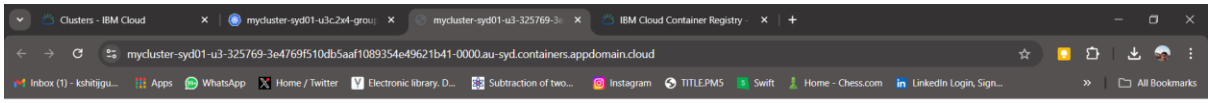


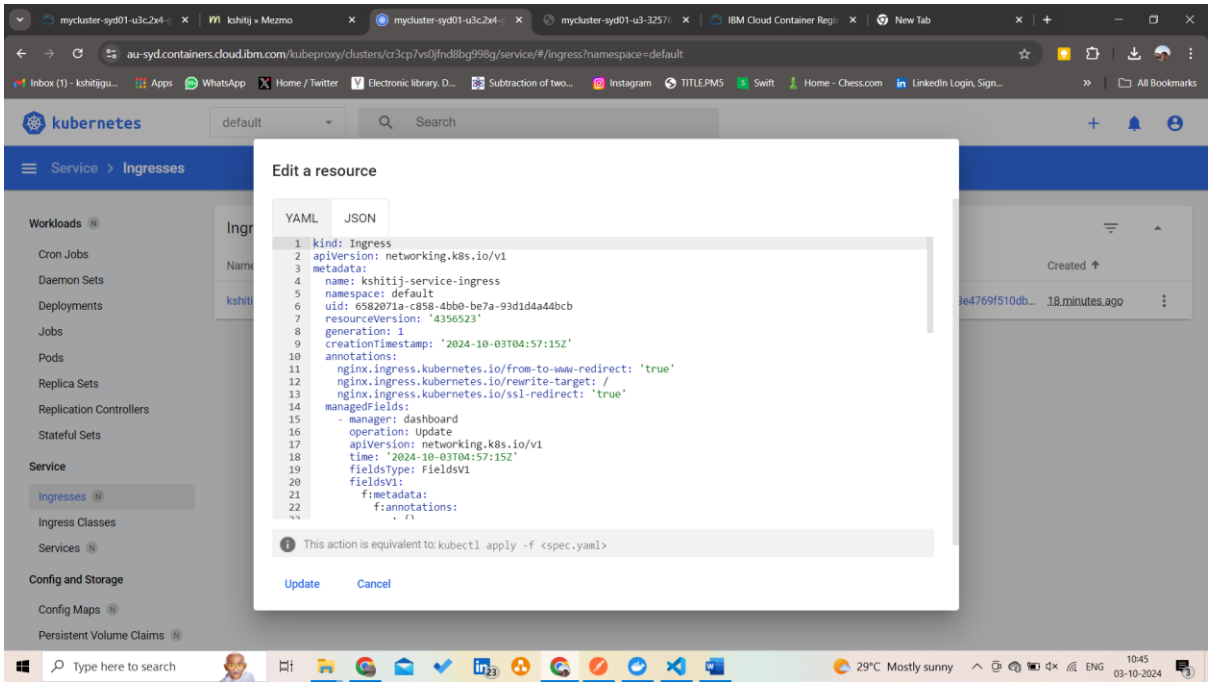

kubernetes
default
Search
Workloads > Deployments
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
CPU (cores)
Memory (bytes)
Deployments
Name
Images
Labels
Pods
Created
kshitij2-deploy
Show all
1 / 1
25 minutes ago
kshitij-deploy
Show all
0 / 1
32 minutes ago
gnueg-deploy
Show all
1 / 1
9 hours ago
ram2-deploy
Show all
1 / 1
15 hours ago
ram-deploy
Show all
1 / 1
16 hours ago


Deployments
Name
Images
Labels
Pods
Created
kshitij2-deploy
au.icr.io/kshitijname/internal-exam-img
Show less
1 / 1
25 minutes ago
kshitij-deploy
Show all
0 / 1
32 minutes ago

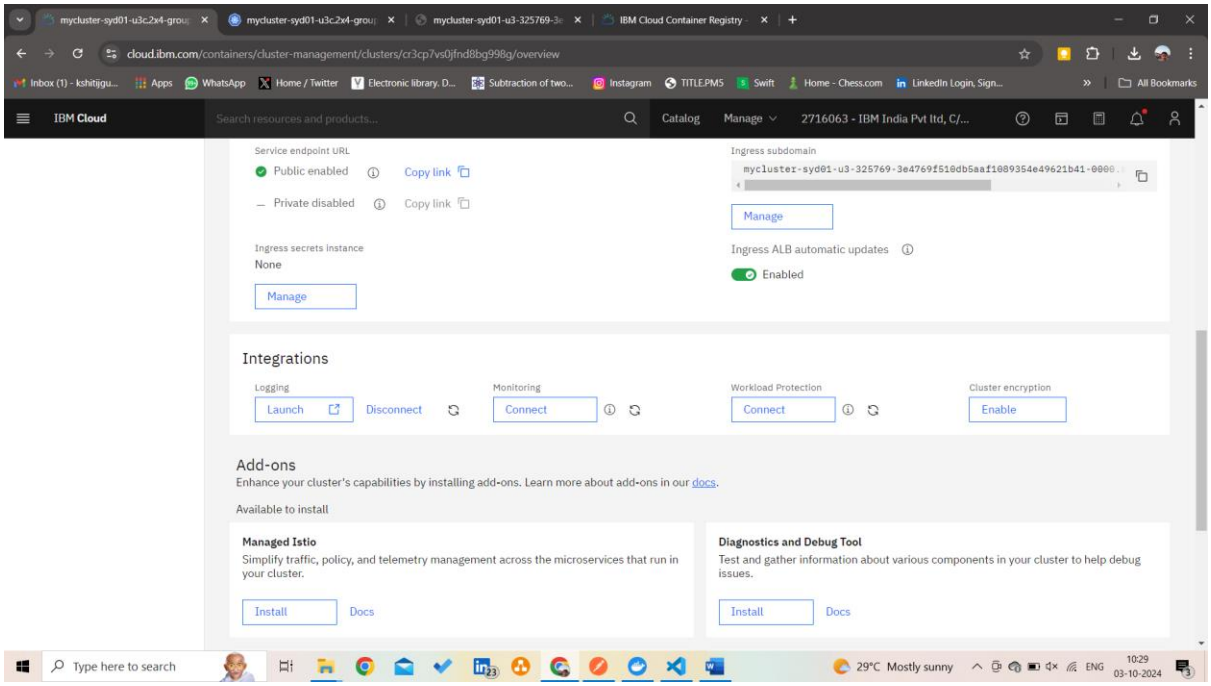
In second part Create ingress service and run it



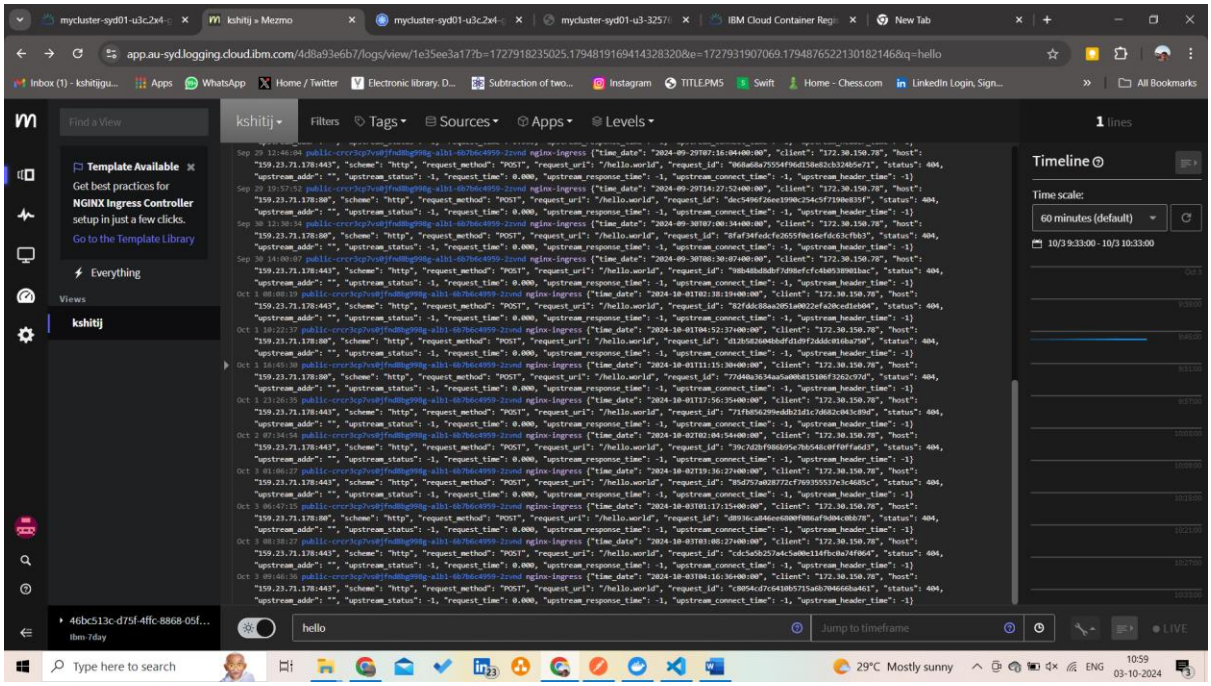




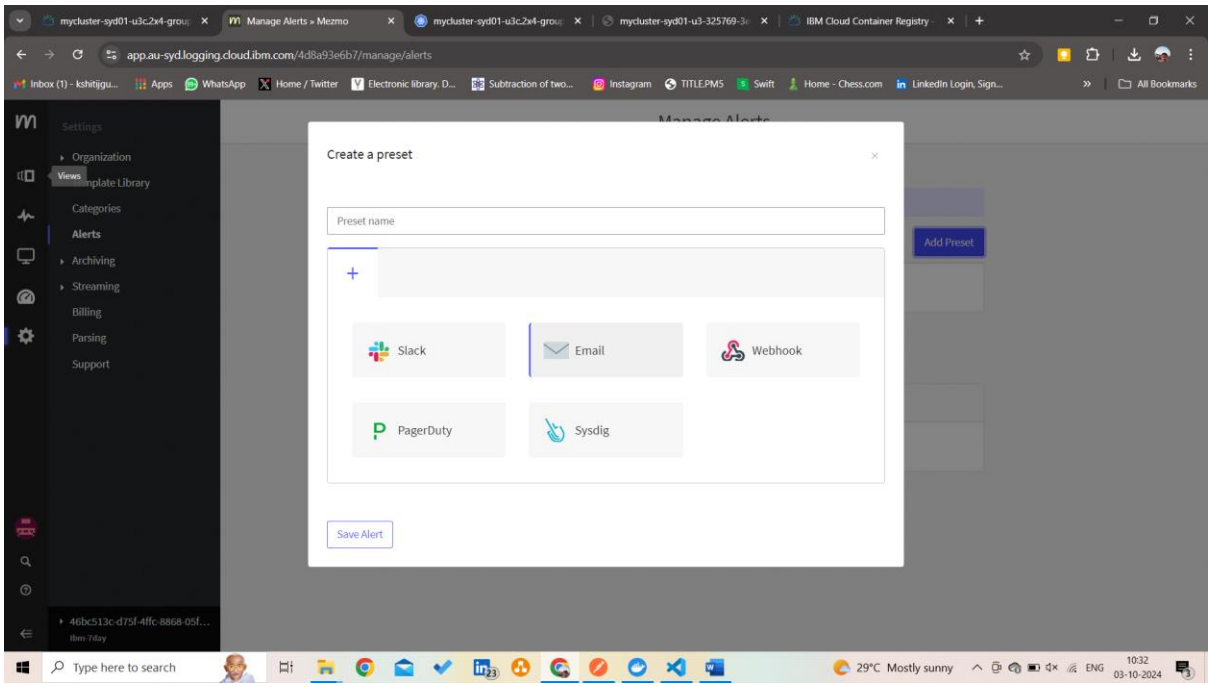
Integrate log analysis with kubernet

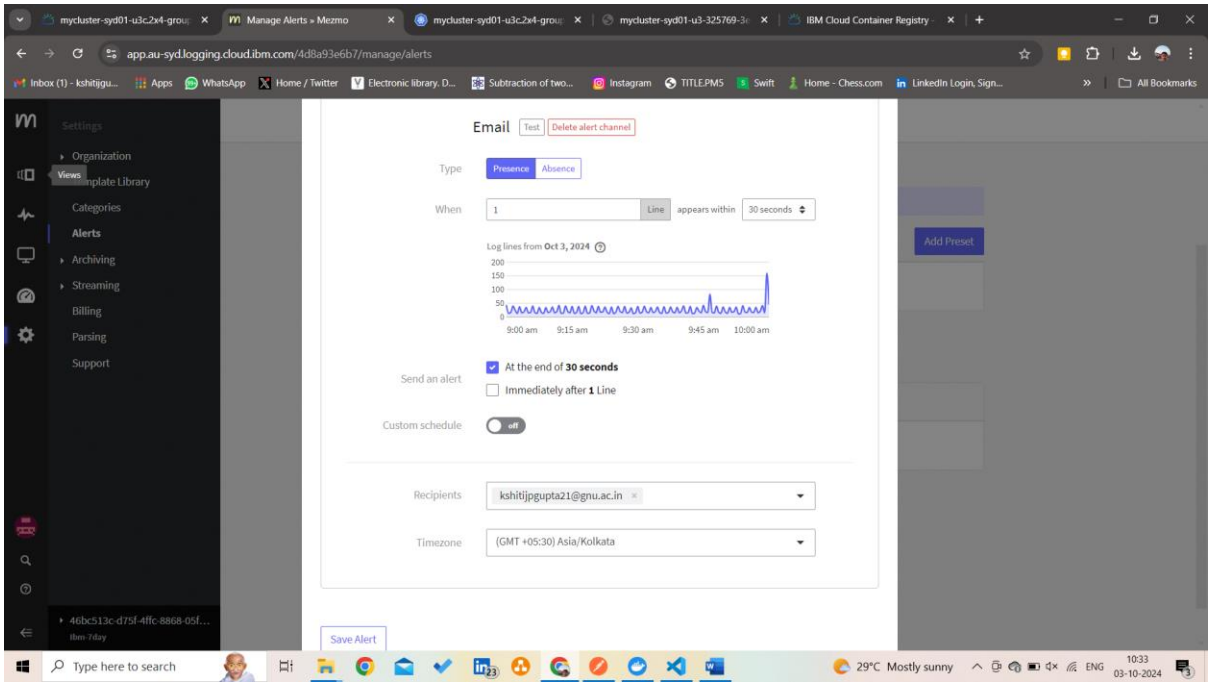


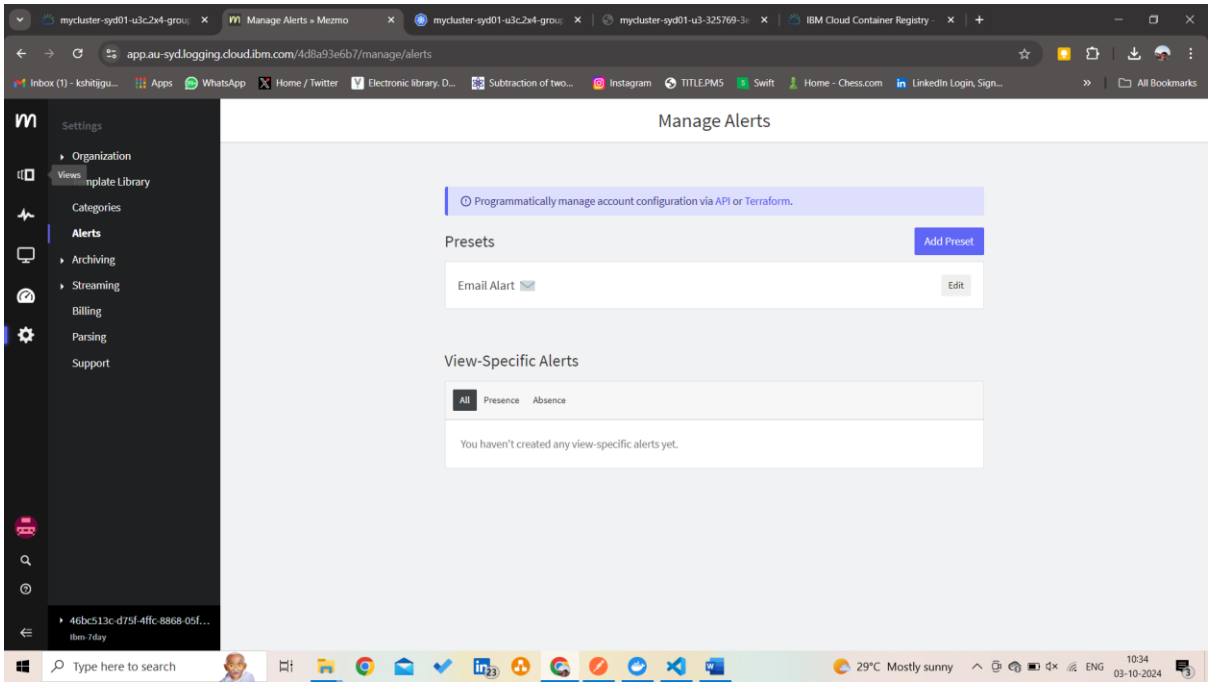
In mezmo you can see your logs

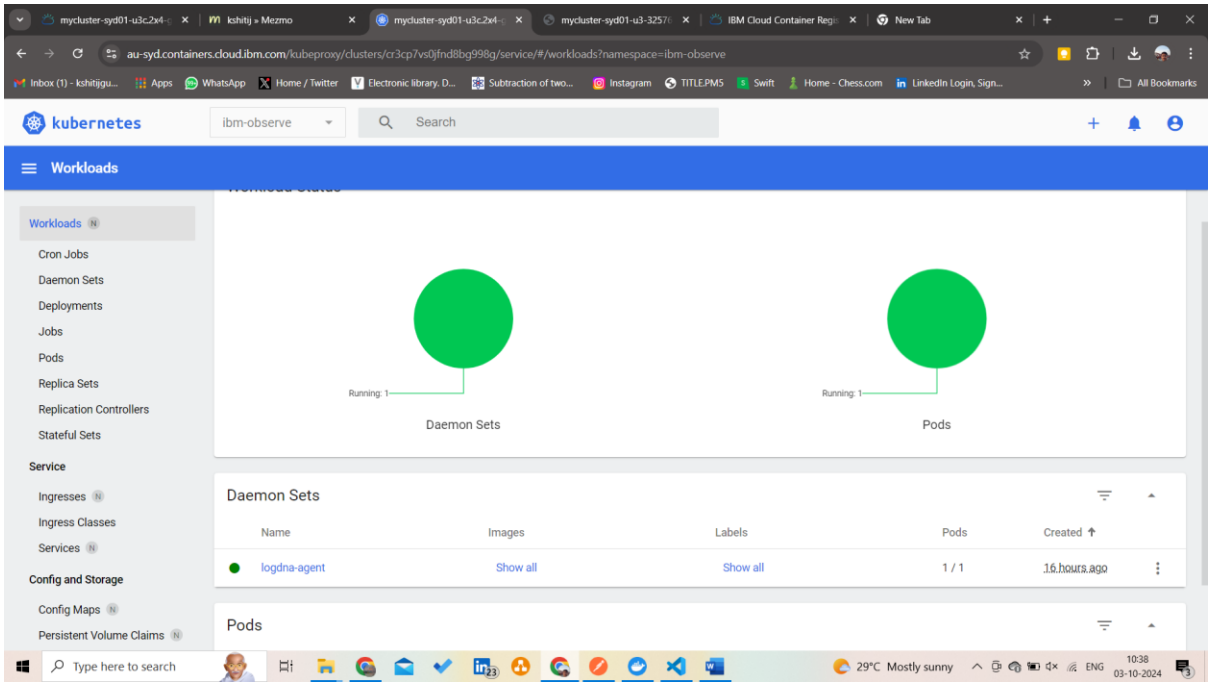


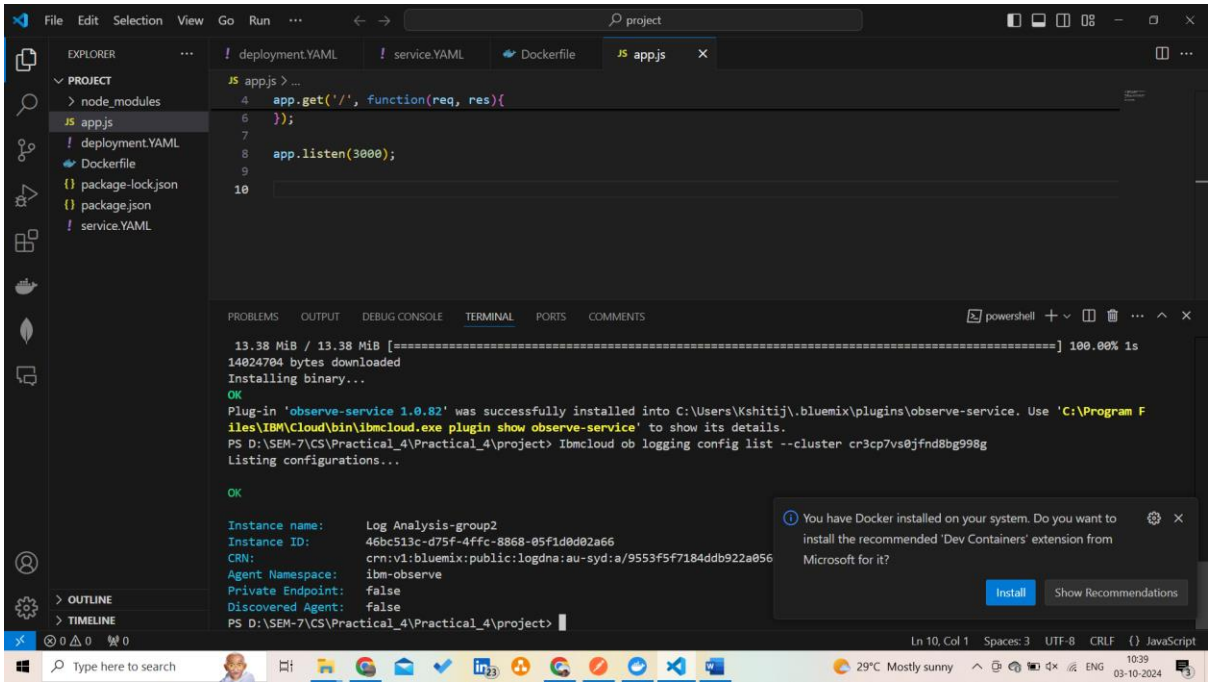
Set the Email alert




Manage Alerts » Mezmo
app.au-syd.logging.cloud.ibm.com/4d8a93e6b7/manage/alerts
Settings
Organization
Views
Categories
Alerts
Archiving
Streaming
Billing
Parsing
Support
Email
Test
Delete alert channel
Type
Presence
Absence
When
1
Line
appears within
30 seconds
Log lines from Oct 3, 2024
200
150
100
50
0
9:00 am
9:15 am
9:30 am
9:45 am
10:00 am
Send an alert
At the end of 30 seconds
Immediately after 1 Line
Custom schedule
off
Recipients
kshitijpgupta21@gnu.ac.in
Timezone
(GMT +05:30) Asia/Kolkata
Save Alert
Add Preset
Type here to search
29°C Mostly sunny
ENG
10:33
03-10-2024


Manage Alerts » Mezmo
app.au-syd.logging.cloud.ibm.com/4d8a93e6b7/manage/alerts
Settings
Organization
Views
Categories
Alerts
Archiving
Streaming
Billing
Parsing
Support
Manage Alerts
Programmatically manage account configuration via API or Terraform.
Presets
Add Preset
Email Alart
Edit
View-Specific Alerts
All
Presence
Absence
You haven't created any view-specific alerts yet.
Type here to search
29°C Mostly sunny
ENG
10:34
03-10-2024


kubernetes
ibm-observe
Search
Workloads
Workloads
Cron Jobs
Daemon Sets
Deployments
Jobs
Pods
Replica Sets
Replication Controllers
Stateful Sets
Service
Ingresses
Ingress Classes
Services
Config and Storage
Config Maps
Persistent Volume Claims
Running: 1
Daemon Sets
Running: 1
Pods
Daemon Sets
Name
Images
Labels
Pods
Created
logdna-agent
Show all
Show all
1 / 1
16 hours ago
Pods
Type here to search
29°C Mostly sunny
ENG
10:38
03-10-2024


File Edit Selection View Go Run
project
EXPLORER
PROJECT
node_modules
app.js
deployment.YAML
Dockerfile
package-lock.json
package.json
service.YAML
deployment.YAML
service.YAML
Dockerfile
app.js
app.get('/', function(req, res){
});
app.listen(3000);
PROBLEMS
OUTPUT
DEBUG CONSOLE
TERMINAL
PORTS
COMMENTS
powershell
13.38 MiB / 13.38 MiB [] 100.00% 1s
14024704 bytes downloaded
Installing binary...
OK
Plug-in 'observe-service 1.0.82' was successfully installed into C:\Users\Kshitij\.bluemix\plugins\observe-service. Use 'C:\Program Files\IBM\Cloud\bin\ibmcloud.exe plugin show observe-service' to show its details.
PS D:\SEM-7\CS\Practical_4\Practical_4\project> Ibmcloud ob logging config list --cluster cr3cp7vs0jfnd8bg998g
Listing configurations...
OK
Instance name: Log Analysis-group2
Instance ID: 46bc513c-d75f-4ffc-8868-05f1d0d02a66
CRN: crn:v1:bluemix:public:logdna:au-syd:a/9553f5f7184ddb922a056
Agent Namespace: ibm-observe
Private Endpoint: false
Discovered Agent: false
PS D:\SEM-7\CS\Practical_4\Practical_4\project>
You have Docker installed on your system. Do you want to install the recommended 'Dev Containers' extension from Microsoft for it?
Install
Show Recommendations
OUTLINE
TIMELINE
Ln 10, Col 1
Spaces: 3
UTF-8
CRLF
JavaScript
Type here to search
29°C Mostly sunny
ENG
10:39
03-10-2024