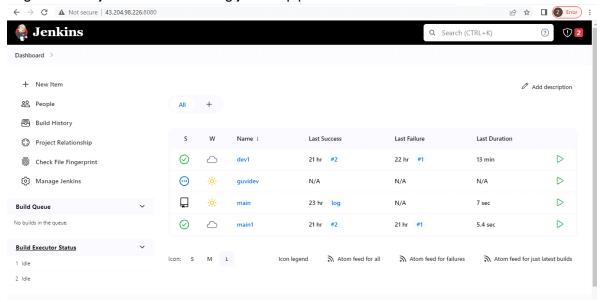
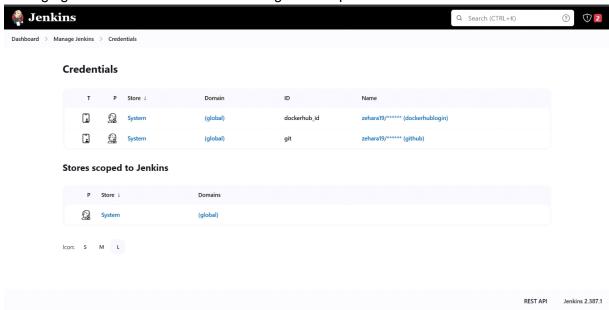
# Creating the EC2 instance and performing the task

IP address at the time of creation: 43.204.98.226

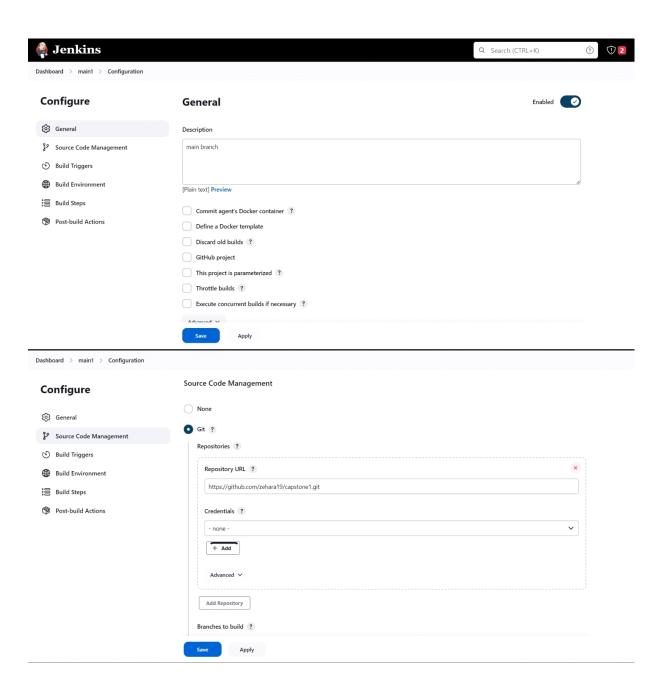
Login into the jenkins and Creating jenkins pipeline main1 and dev1

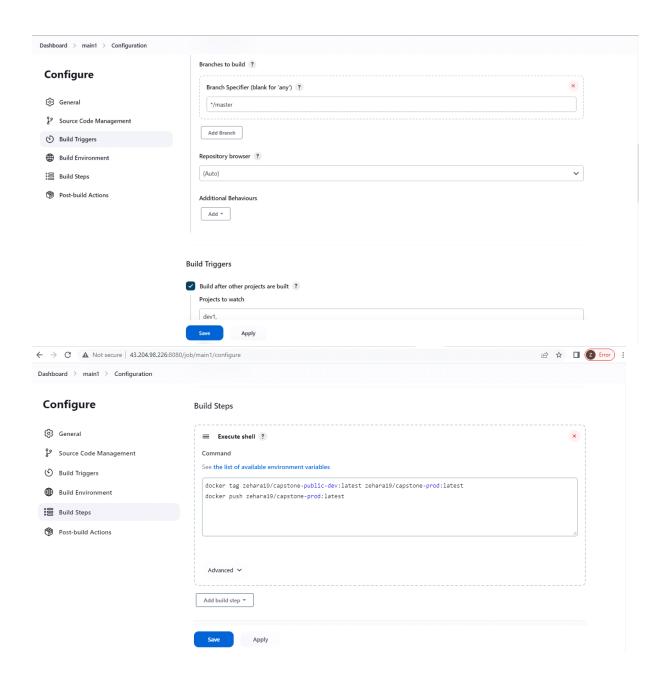


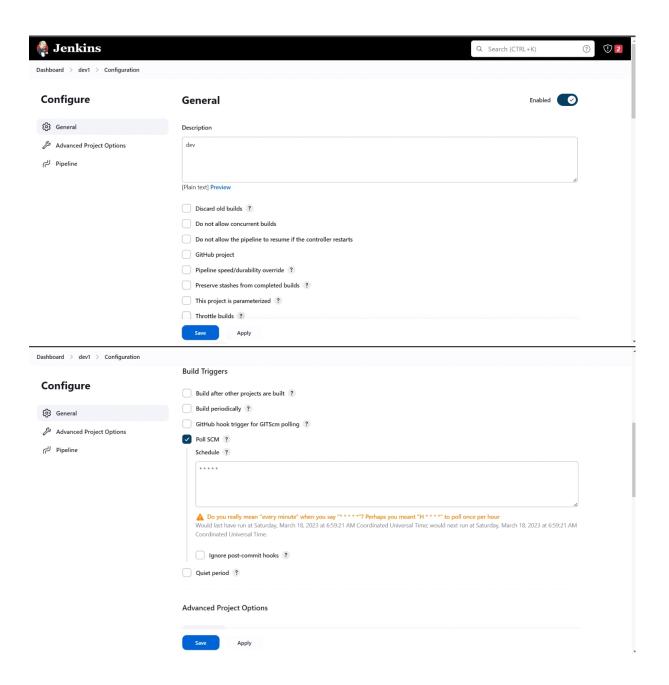
managing credentials for docker hub and github for permissions

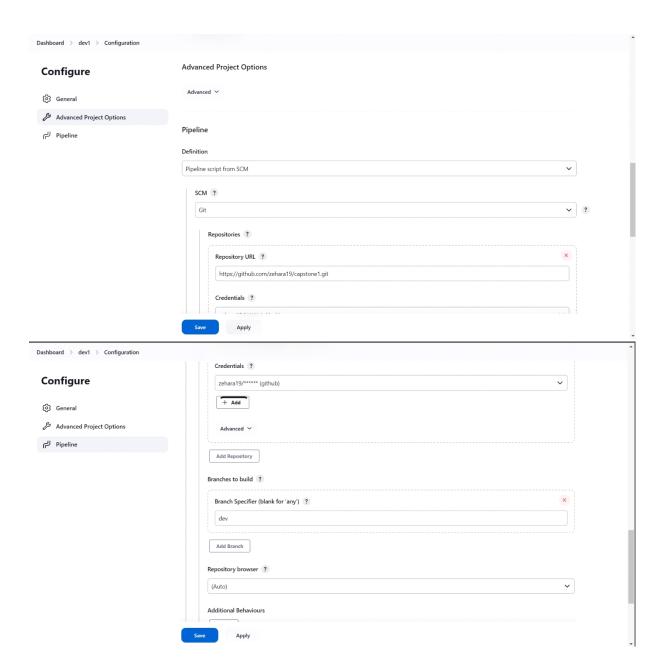


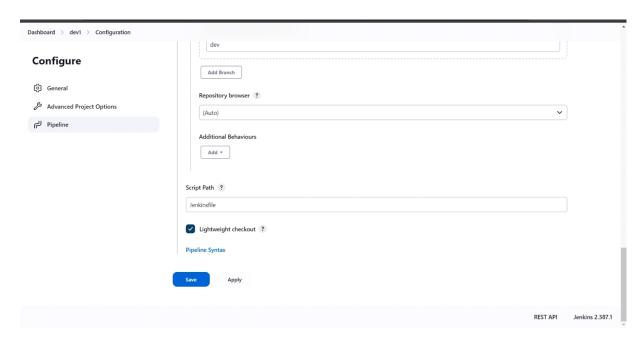
Configuring the main 1 pipeline

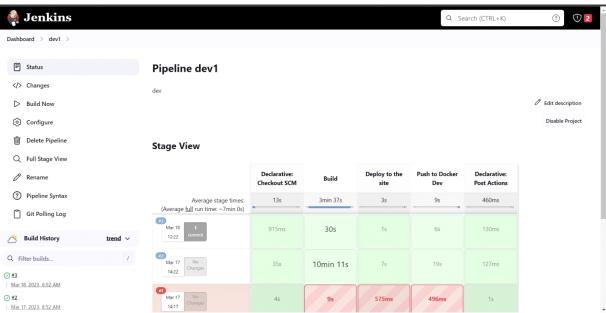


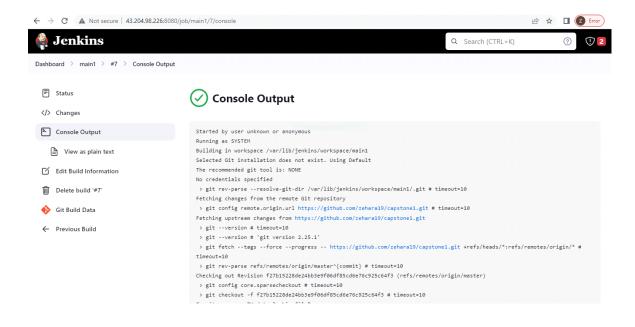




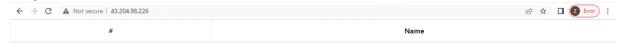








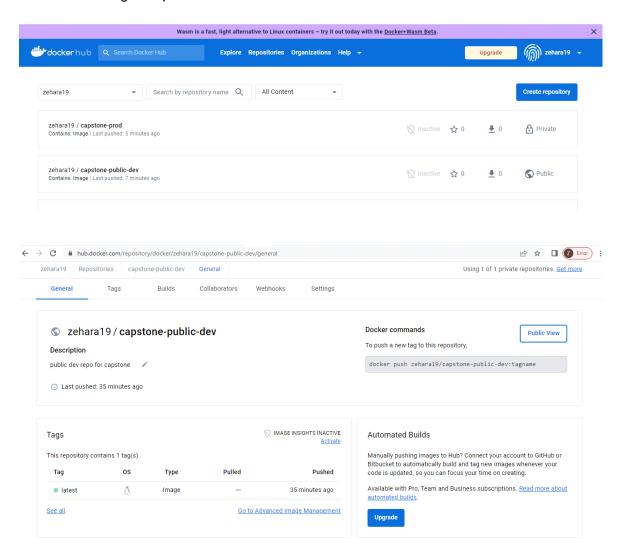
## Output

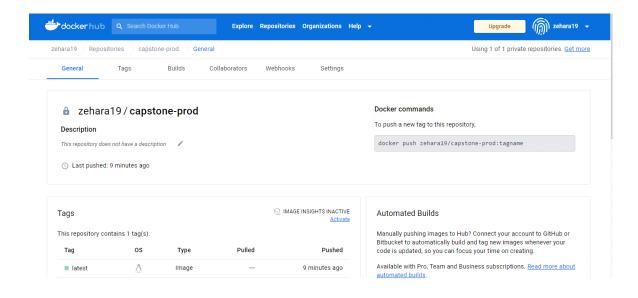


main 1 is to trigger the dev1 i.e dev branch that is merged with master branch whenever the user commit code in the github it trigger the jenkins and pushes into the docker hub to the dev repo

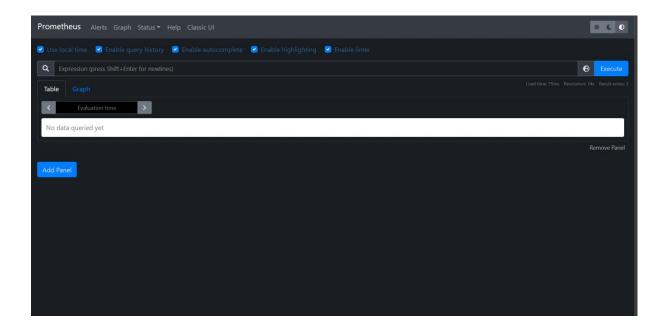
whenever the code commit happens in the master branch it pushed it into the prod repo in the docker hub

The docker images is pushed into the docker hub

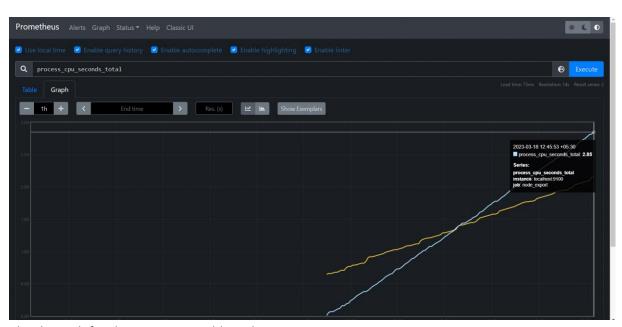




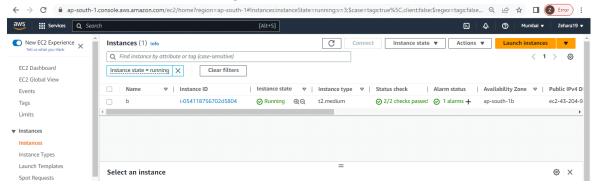
Creating the monitoring tools for the monitoring instance for a real-time purpose prometheus dashboard



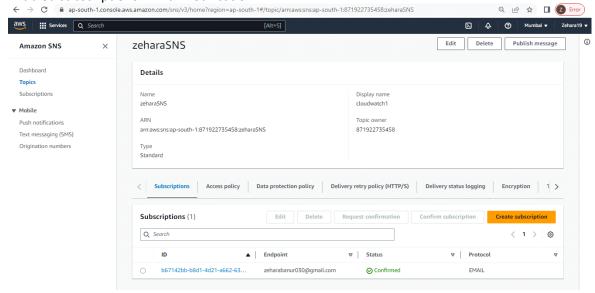
I used to measure the total amount of CPU time in seconds in prometheus



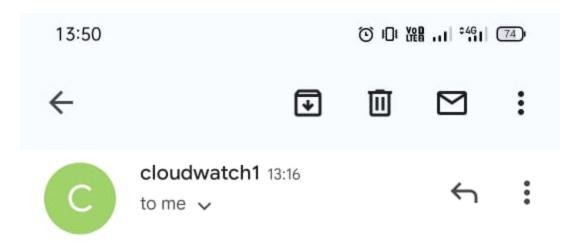
Cloud Watch for the Instance. Enabling alarm status.



## Enabled subscriptions - Email notification



Users can set notification alarms to be sent when something being monitored surpasses a specified threshold.



You are receiving this email because your Amazon CloudWatch Alarm "awsec2-i-054118756702d5804-GreaterThanOrEqualToThreshold-CP UUtilization" in the Asia Pacific (Mumbai) region has entered the ALARM state, because "Threshold Crossed: 1 datapoint [1.0173242567379872 (18/03/23 07:36:00)] was greater than or equal to the threshold (0.99)." at "Saturday 18 March, 2023 07:46:17 UTC".

## View this alarm in the AWS Management Console:

https://ap-south-1.console.aws.amazon.com/cloudwatch/deeplink.js? region=ap-south-1#alarmsV2:alarm/awsec2-i-054118756702d5804-GreaterThanOrEqualToThreshold-CPUUtilization

### Alarm Details:

Name: awsec2-i-054118756702d5804-Gr

eaterThanOrEqualToThreshold-CPUUtilization
- Description: Created from EC2 Console

State Change: OK -> ALARM

- Reason for State Change: Threshold Crossed: 1 datapoint [1.0173242567379872 (18/03/23 07:36:00)] was greater than or equal to the threshold (0.99).

Timestamp: Saturday 18 March, 2023 07:46:17 UTC

AWS Account: 871922735458

Alarm Arn: arn:aws:cloudwatch:ap-south-1:

871922735458:alarm:awsec2-i-054118756702d5804-GreaterThanOrE qualToThreshold-CPUUtilization

#### Threshold:

 The alarm is in the ALARM state when the metric is GreaterThanOrEqualToThreshold 0.99 for at least 1 of the last 1 period(s) of 300 seconds.

#### Monitored Metric:

- MetricNamespace: AWS/EC2 - MetricName: CPUUtilization

Dimensions: [Instanceld = i-054118756702d5804]

Period: 300 seconds
 Statistic: Average
 Unit: not specified