Monitoring with CloudwatchAgent

Here I am going to download the cloudwatch agent in ubuntu instance.

Why Cloudwatch Agent ?

By default, we can monitor specific types of Metrics alone

- CPU utilization
- Status checks
- Network in/out

While using the agent we can also monitor the

- RAM
- Disk used ad free
- Running process, etc

Reason: These are not collected by default, because Amazon doesn't look into your OS internals unless you explicitly install an agent that reads those details.

Step 1: Create an IAM Role with CWAgentrole Permission

- Create a new IAM role in AWS console
- Add policy CloudWatchAgentServerPolicy.
- Name this role and save this.
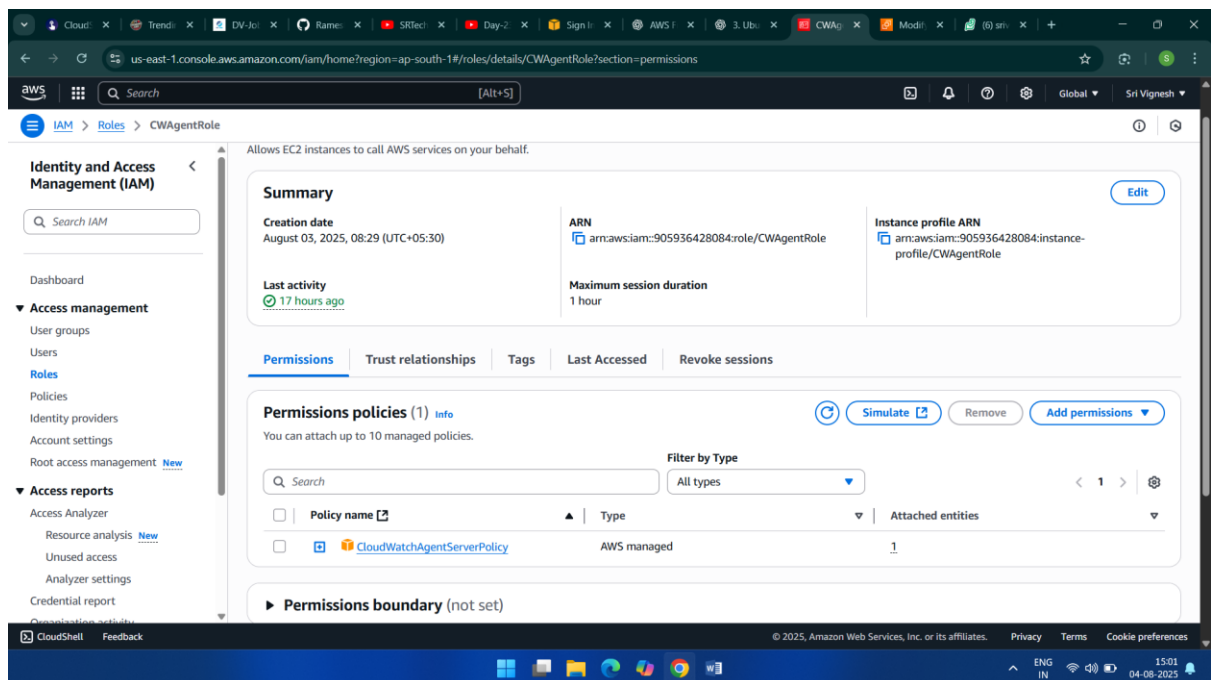
- Add this role to the instance we need to monitor using ACTION -> SECURITY -> MODIFY IAM. Then selected the newly created role and save it.
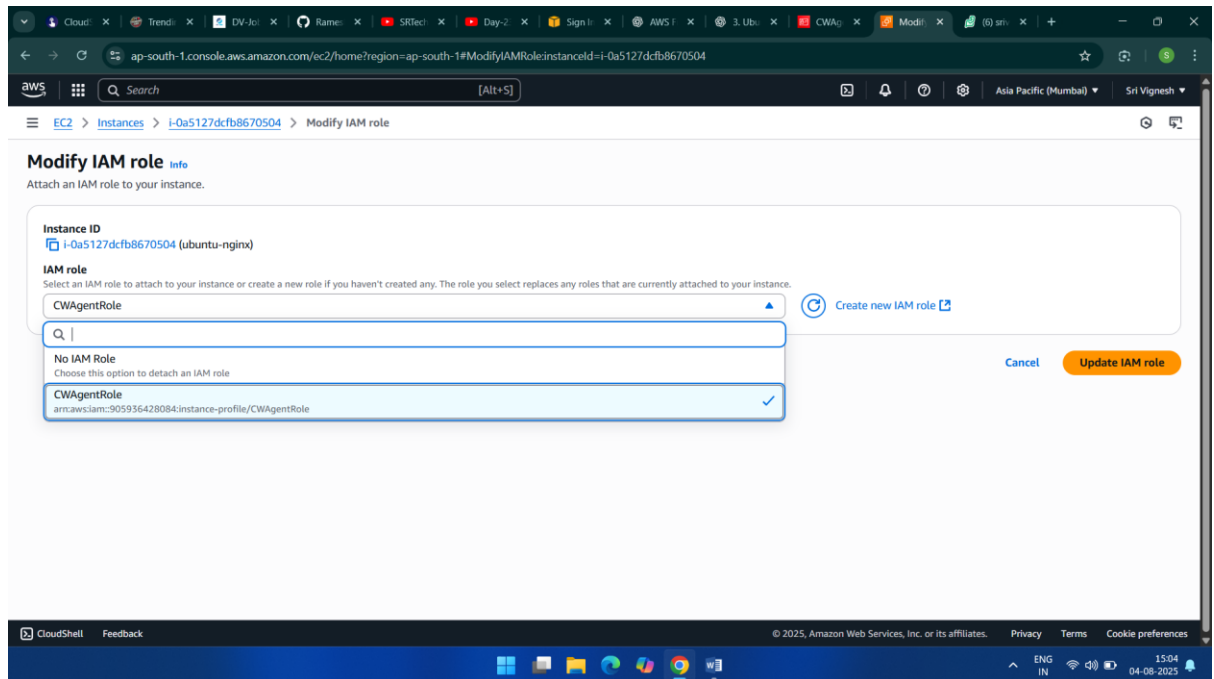
Step 2: Download the Cloudwatch agent

- wget https://s3.amazonaws.com/amazoncloudwatch-agent/ubuntu/amd64/latest/amazon-cloudwatch-agent.deb
    1. This will download the latest cloudwatch-agent.deb from S3.
- sudo dpkg -i amazon-cloudwatch-agent.deb
    (1) This command will install the deb file using dpkg file.
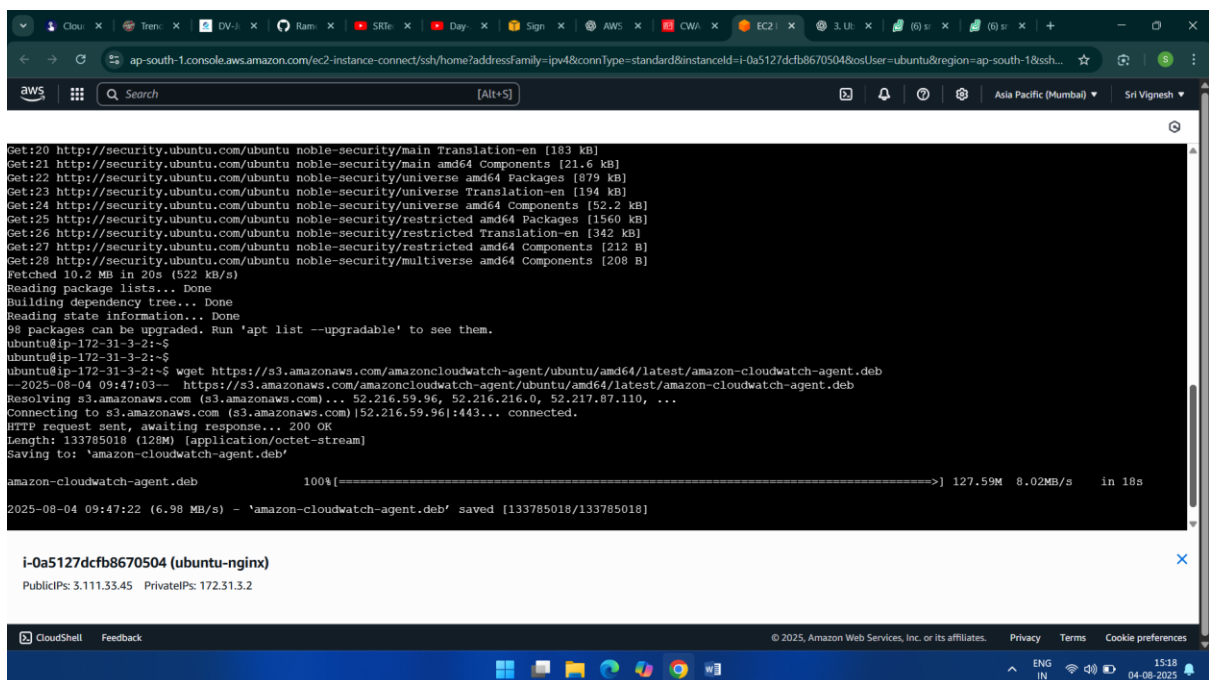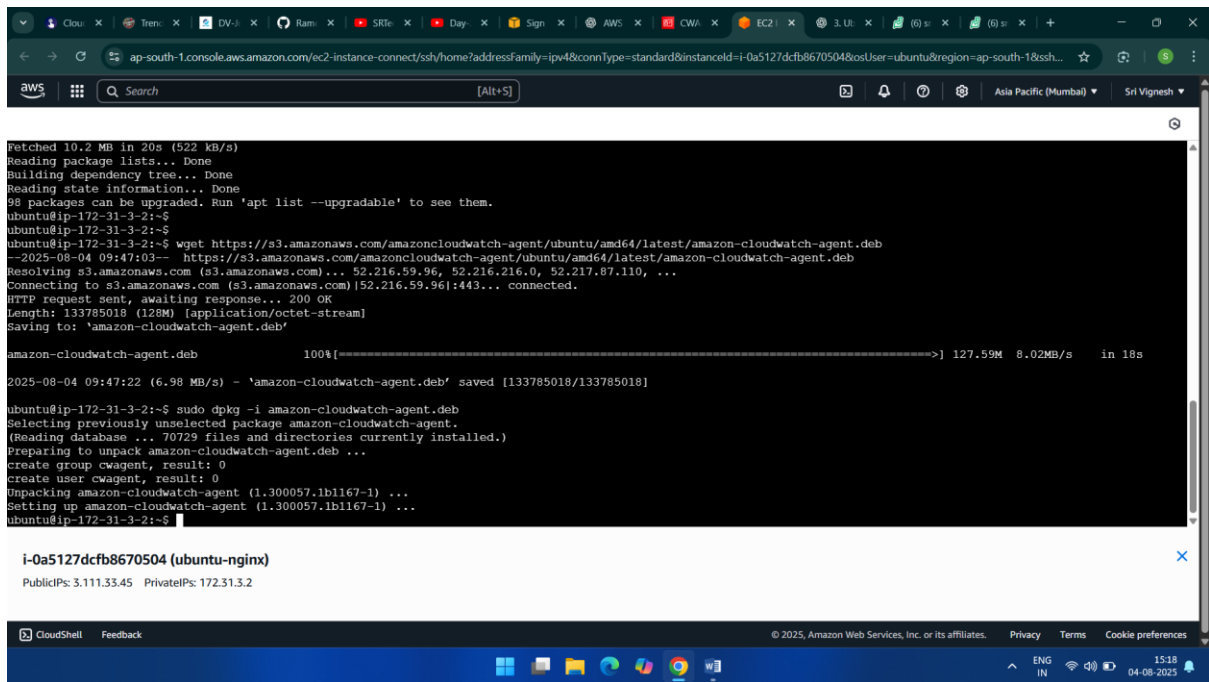
Step 3: Create an Agnet configeration file

It saves in the form of JASON. The location the config file is **/opt/aws/amazon-cloudwatch-agent/bin/config.json**

For generating the config file use the below command

- sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard

  This command will asks set of questions for building the CloudWatch Agent.

  At the end this will create an Agent config file.

Step 4: Start the CloudWatch Agent

- sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl \-a
  fetch-config \-m ec2 \-c file:/opt/aws/amazon-cloudwatch-agent/bin/config.json \
  -s
  This command will Load the config file and start the CloudWatch Agent.

To verify its running use the below command

- sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a status -m ec2
  by using this you can see the status of CloudAgent is running

Step 5: Verify this in AWS console

Go to CloudWatch -> All metrics -> CWAgent -> See the metrics with the instanceId.

You should see the Graph over there. You can select metrics by filtering and even alarm creation is also possible.