

Name: Vadiathe Usha Bai

Task: Set up Monitoring for a Cloud-Based Application

Platform Used: AWS CloudWatch

Instance ID: i-08c0dde0dbb978832

Instance Name: codetech11

Public IP: 15.207.89.141

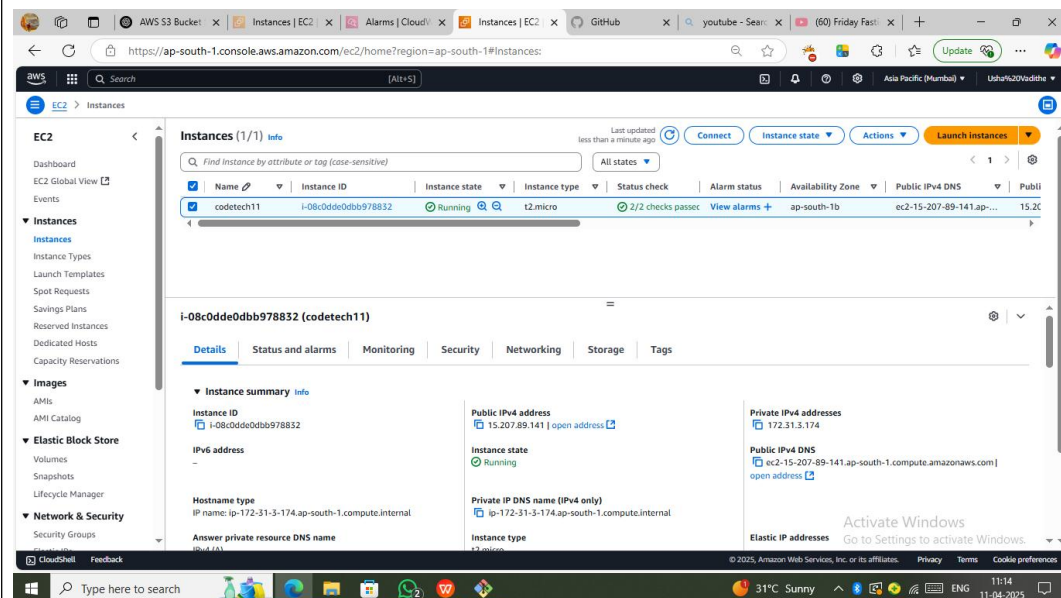
Steps Performed

1.Created an EC2 Instance

Type: t2.micro

OS: Amazon Linux 2

Public IP assigned

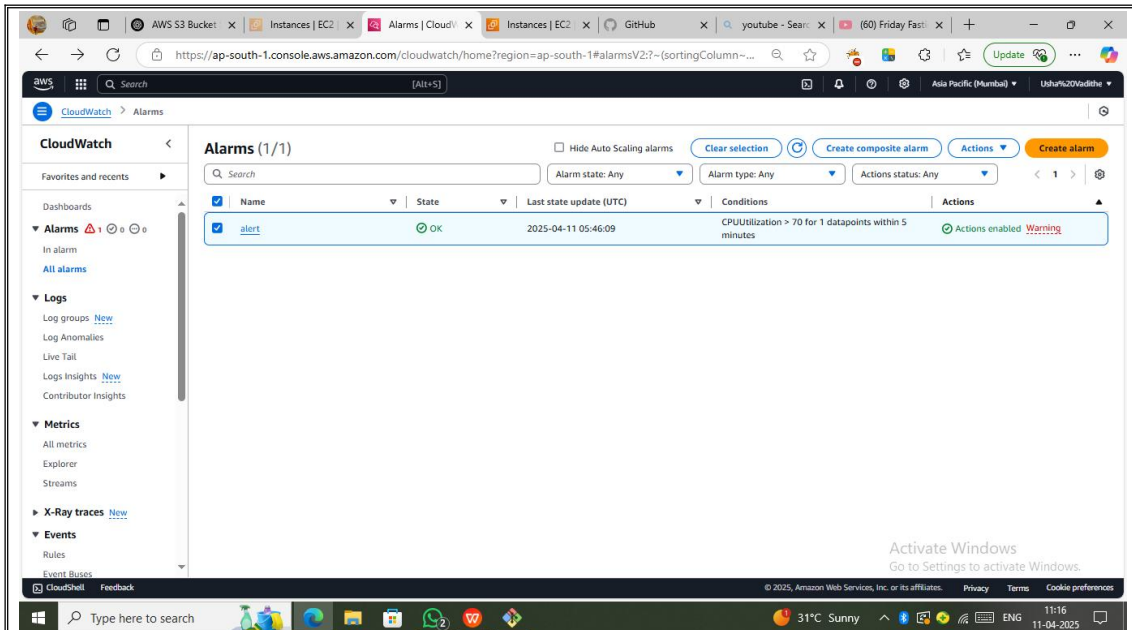


2.Enabled Cloud Monitoring

Set up **CloudWatch Dashboard** to monitor:

CPU Utilization

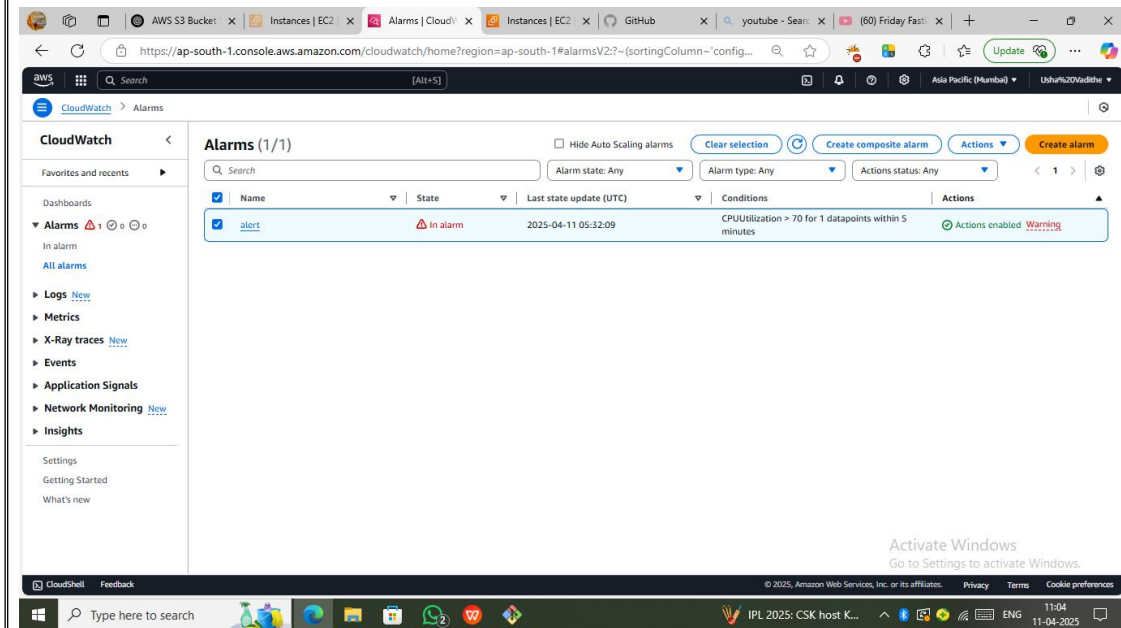
Network In/Out



3.Created a CloudWatch Alarm

Alarm Name: alert

Metric: CPUUtilization > 70% for 1 datapoint within 5 minutes



4.Enabled Detailed Monitoring

Set 1-minute intervals for faster metric detection

5.Simulated High CPU Load

Installed stress tool using EPEL repo

Ran stress --cpu 1 --timeout 600

Alarm transitioned to **ALARM** state

```
ec2-user@ip-172-31-3-174:~$ sudo yum install stress
Package Arch Version Repository Size
Installing:
stress x86_64 1.0.4-16.el7 epel 39 k
Transaction Summary
-----
Install 1 Package
Total download size: 39 k
Installed size: 94 k
Downloading packages:
warning: /var/cache/yum/x86_64/2/epel/packages/stress-1.0.4-16.el7.x86_64.rpm: H
eader V3 RSA/SHA256 Signature, key ID 352c64e5: NOKEY
Public key for stress-1.0.4-16.el7.x86_64.rpm is not installed
stress-1.0.4-16.el7.x86_64.rpm | 39 kB 00:00
Retrieving key from file:///etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Importing GPG key 0x352c64e5:
Userid : "Fedora EPEL (?) <epel@fedoraproject.org>"
Fingerprint: 91e9 7d7c 4a5e 96f1 7f3e 888f 6a2f aea2 352c 64e5
Package : epel-release-7-11.noarch (Amazon2extra-epel)
From : /etc/pki/rpm-gpg/RPM-GPG-KEY-EPEL-7
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : stress-1.0.4-16.el7.x86_64 1/1
Verifying : stress-1.0.4-16.el7.x86_64 1/1
Installed:
stress.x86_64 0:1.0.4-16.el7
Complete!
[ec2-user@ip-172-31-3-174 ~]$ stress --cpu 2 --timeout 300
stress: info: [3542] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd
^C
[ec2-user@ip-172-31-3-174 ~]$ stress --cpu 2 --timeout 300°C
[ec2-user@ip-172-31-3-174 ~]$ stress --cpu 2 --timeout 300
stress: info: [3551] dispatching hogs: 2 cpu, 0 io, 0 vm, 0 hdd
^C
[ec2-user@ip-172-31-3-174 ~]$ stress --cpu 1 --timeout 300
stress: info: [3555] dispatching hogs: 1 cpu, 0 io, 0 vm, 0 hdd
^C
[ec2-user@ip-172-31-3-174 ~]$ stress --cpu 1 --timeout 600
stress: info: [3612] dispatching hogs: 1 cpu, 0 io, 0 vm, 0 hdd
stress: info: [3612] successful run completed in 600s
[ec2-user@ip-172-31-3-174 ~]$
```

Activate Windows
Go to Settings to activate Windows.