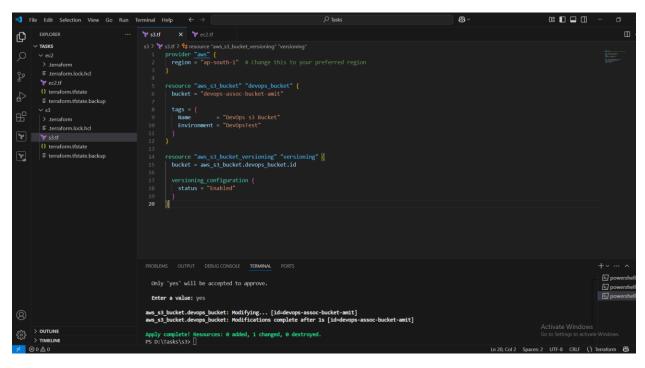
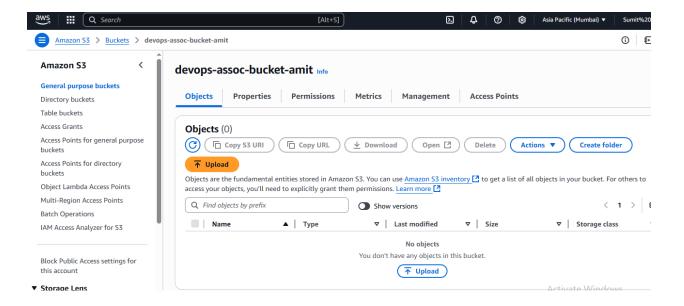
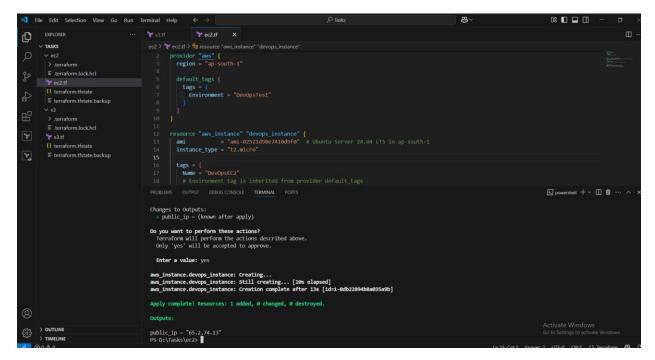
#### **Task 1: Terraform S3 Bucket**



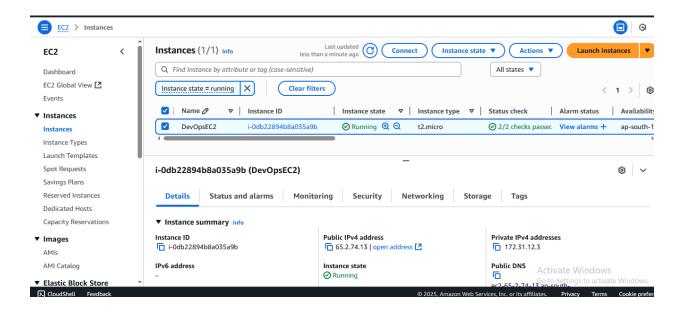
- > terraform init
- > terraform plan
- > terraform apply



## **Task 2: EC2 Instance Provisioning**



- terraform init
- > terraform plan
- > terraform apply



**Task 3: CI Pipeline Snippet** 

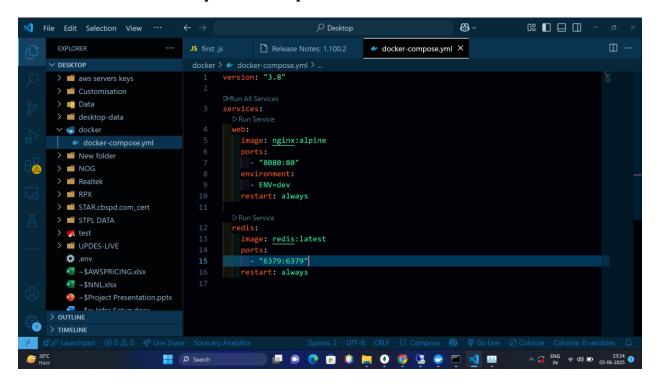
```
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   c
     > Docker Compose Setup

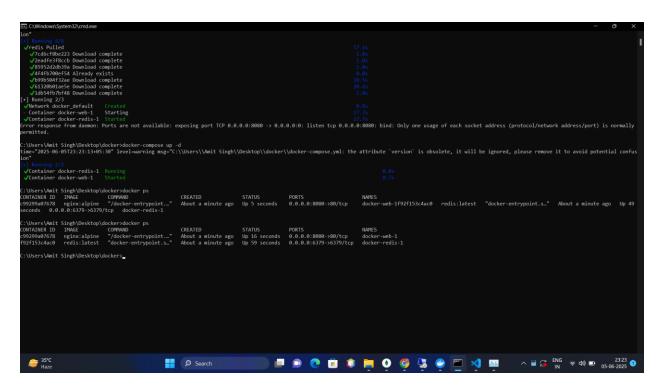
✓ github_workflow\.github\workflows

     > HighAlarmCPU
     > Log Aggregation
     > Service Monitoring
                                       - name: Initialize Terraform run: terraform init
                                      - name: Validate Terraform configuration run: terraform validate
                                                                                                   Take Survey Remind Me Later Don't Show Again
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```

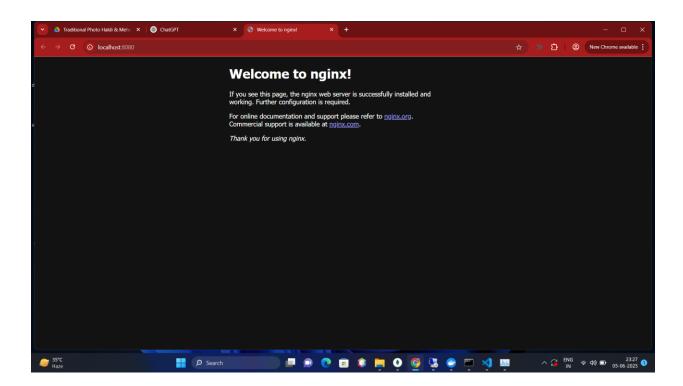
### **Task 4: Docker Compose Setup**



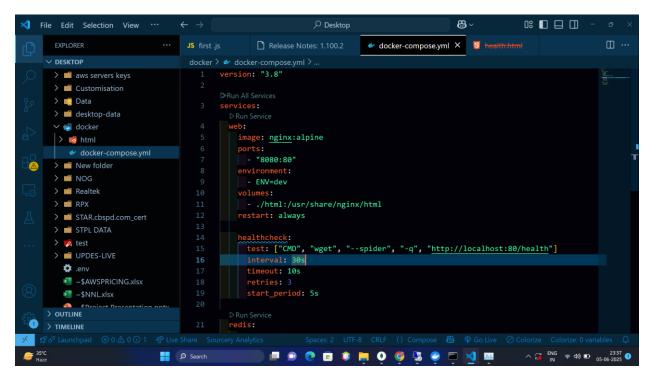
- docker-compose up –d
- docker ps



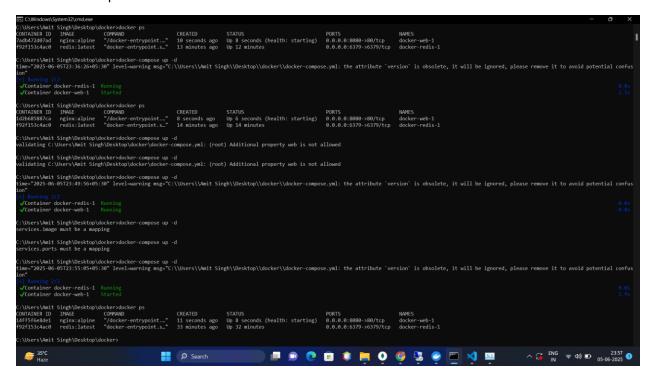
https://localhost:8080



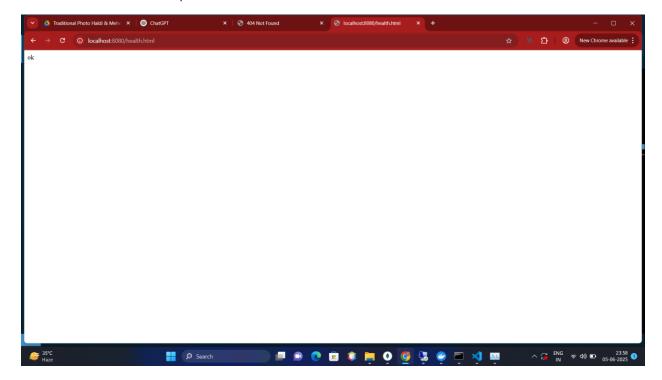
#### **Task 5: Container Healthcheck**



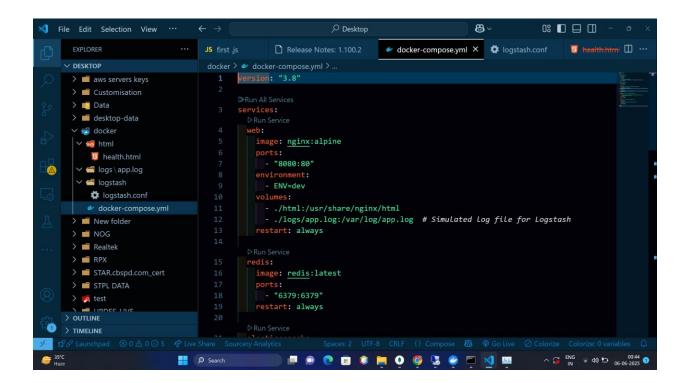
- docker-compose up -d
- docker ps

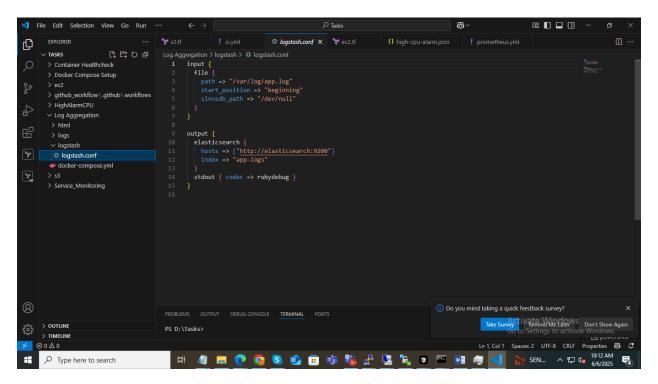


Checks HTTP 200 on http://localhost:8080/health



**Task 6: Log Aggregation** 

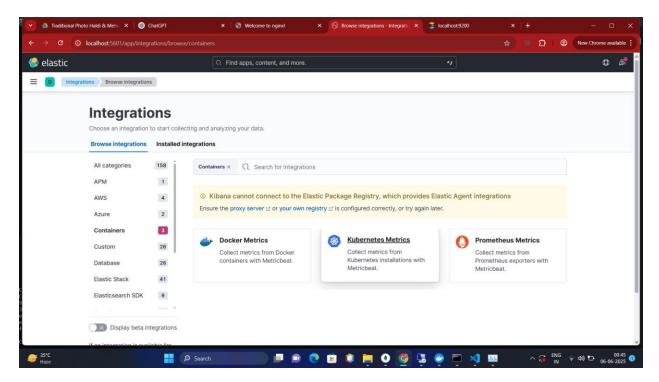




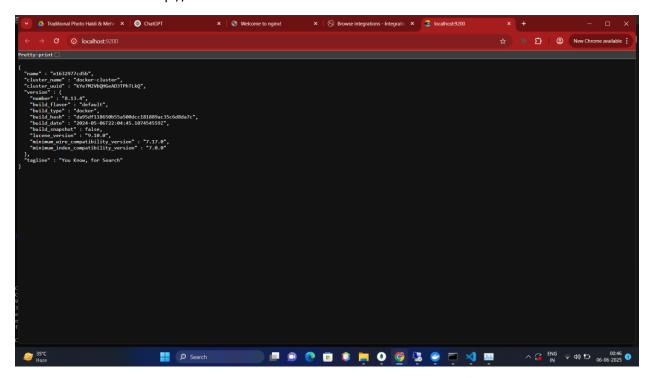
- docker-compose up –d
- docker ps

```
| Comparison | Com
```

➤ Kibana: https://localhost:5601



> Elasticsearch: http://localhost:9200



**Task 7: CloudWatch Alert** 

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     ∨ TASKS
      > Container Healthcheck
                                                 "Resources": {
    "HighCPUAlarm": {
       > Docker Compose Setup
                                                     HighCuklarm: "AWS::CloudWatch::Alarm",
"Properties": 
"AlarmWame": "HighCPUAlarm",
"MetricName": "CPUUtilization",
"Namespace": "AWS/EC2",
"Statistic": "Average",
"Dasid",
       > github_workflow
     {} high-cpu-alarm.json
                                                      "Period": 60,
"EvaluationPeriods": 5,
       > Service Monitoring
                                                      "Threshold": 80,
"ComparisonOperator": "GreaterThanThreshold",
                                                       "AlarmActions": [
    "arn:aws:sns:ap-south-1:450044567651:HighCPUAlarm"
                                                        "Dimensions": [
                                                        {
    "Name": "InstanceId",
    "Value": "i-0db22894b8a035a9b"
                                                        "Unit": "Percent"
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# **Task 8: Service Monitoring**

