# **Practical case 6**

Student: Yago Toro Molina (ytoro-mo).

E-Mail: ytoro-mo@student.42malaga.com

Task 1: Create a CloudFormation stack that deploys all needed resources.

## **Stack Template:**



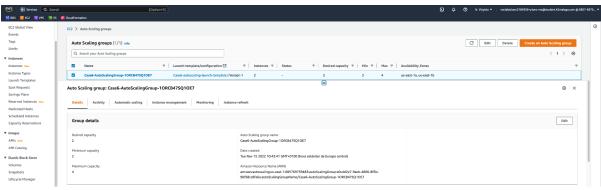
```
otion+S]
                                       4
                                                       @
                                                                       N. Virginia ▼
                                                                                                          voclabs/user2184356=ytoro-mo@student.42malaga.com @ 6857-6975... ▼
     LaunchTemplate:
Type: AWS::EC2::LaunchTemplate
Properties:
LaunchTemplateData:
                  aunchTemplateData:
ImageId: !Ref AmazonLinuxAMIID
InstanceType: t3.micro
NetworkInterfaces:
- DeviceIndex: 0
AssociatePublicIpAddress: true
Groups:
- !Ref WebServerSecurityGroup
                  - !Ref WebserverSecurit
DeleteOnTermination: true
Placement:
Tenancy: default
UserData:
Fn::Base64:
!Sub |
#!/bin/bash
                                sudo yum update -y
sudo amazon-linux-extras install nginx1 -y
sudo systemctl enable nginx
sudo systemctl start nginx
             LaunchTemplateName: !Sub '${AWS::StackName}-autoscaling-launch-template'
   WebServerSecurityGroup:
Type: AWS::EC2::SecurityGroup
Properties:
GroupDescription: Enable HTTP ingress
VpcId: !Ref VPC
SecurityGroupIngress:
                  - IpProtocol: tcp
FromPort: 80
ToPort: 80
CidrIp: 0.0.0.0/0
            Tags:
- Key: Name
Value: Web Server Security Group
   AutoScalingGroup:
Type: AWS::AutoScaling::AutoScalingGroup
Properties:
MinSize: '2'
MaxSize: '4'
DesiredCapacity: '2'
LaunchTemplate:
LaunchTemplateId: !Ref LaunchTemplate
Version: !Ref LaunchTemplateVersionNumber
VPCZoneIdentifien:
- !Ref PublicSubnet1
- !Ref PublicSubnet2
```

### **Deployment:**

- Subnets:



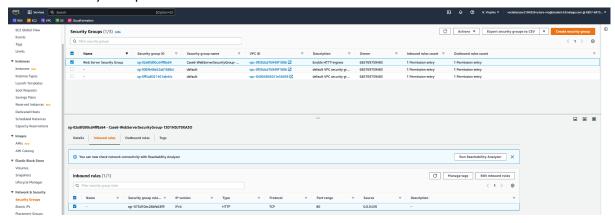
Auto Scaling Group:



- EC2 instances deployed:



Security Group:



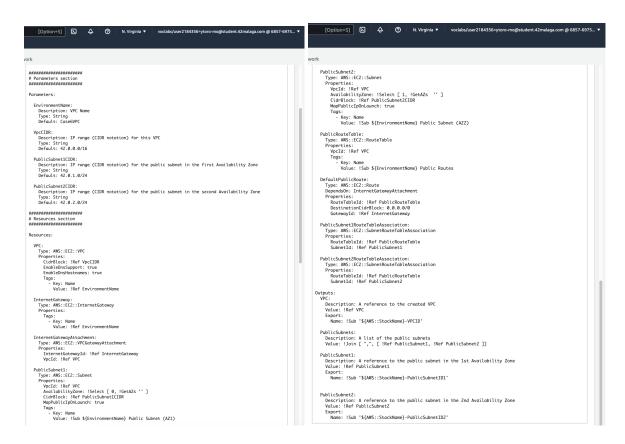
- HTTP connection to nginx:



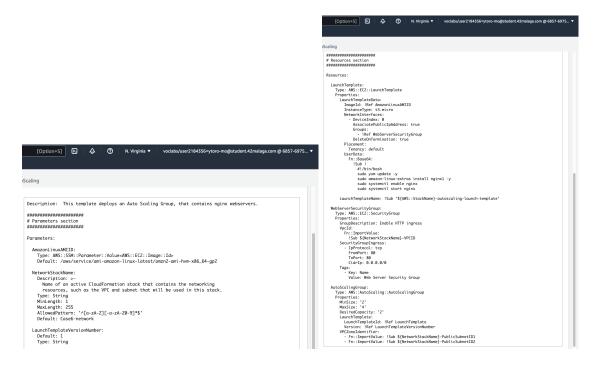
# Task 2: Create two CloudFormation stack, one to deploy all network resources and another to deploy all computing resources.

### **Stack Template:**

- Network Resources Stack:

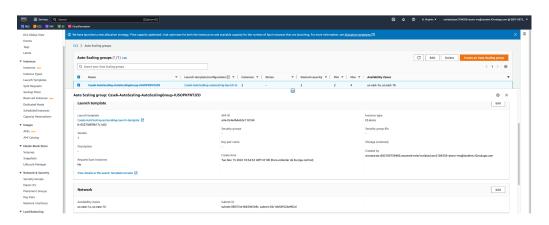


- Computing Resources Stack:



## Deployment:

Auto Scaling Group:



- EC2 instances deployed:



- HTTP connection to nginx:

