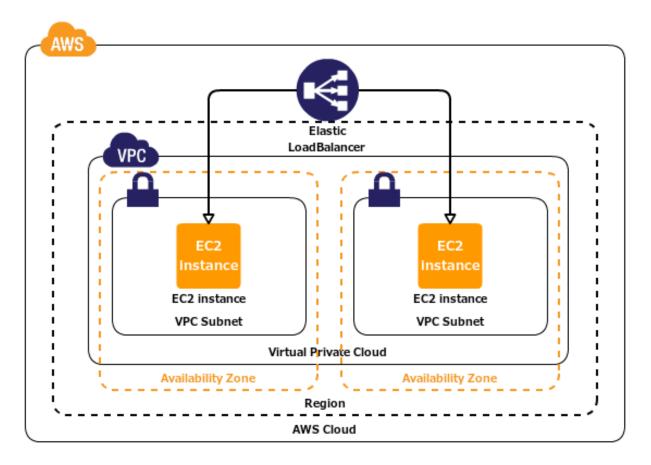
Create a SonarQube stack Ec2 using cloudformation.

In this document, we are presenting the deploying the sonarqube stack in AWS using cloudformation.

for installing the sonarqube, please follow this link below.

How to - Sonar installation setup steps

AWS ARCHITETURE FOR SONARQUBE STACK:



HOW TO DEPLOY Ec2 USING CLOUDFORMATION

• We will use awscli to deploy cloudformation template.

Cloudformation code:

cloudformation.yaml

```
AWSTemplateFormatVersion: '2010-09-09'

Description: >
   Stack for sonar Tool.

Parameters:
   ami:
    Type: String
    Default: "ami-00d4e9ff62bc40e03"

awsregion:
   Type: String
```

```
Default: "us-east-1"
  vpccidr:
    Type: String
    Default: "10.20.0.0/16"
  subnetscidr:
    Type: CommaDelimitedList
    Default: "10.20.1.0/28, 10.20.2.0/28"
    Type: CommaDelimitedList
    Default: "us-east-1c"
  secretkey:
    Type: String
    Default: "25r4QLtr56EqfxCVzEk3eHwS1lxhn6bWWEsYH8Ms"
  accesskey:
    Type: String
    Default: "AKIAXZXIY4Q4QQX5IE5K"
  webserversami:
    Type: String
    Default: "ami-00eb20669e0990cb4"
  instancetype:
    Type: String
    Default: "t2.large"
  securitygroup:
    Type: String
    Default: "sg-00ec57c74f9cf0cf7"
Resources:
  EC2Instance:
    Type: AWS::EC2::Instance
    Properties:
        ImageId: !Ref webserversami
        KeyName: prasanna
        InstanceType: !Ref instancetype
        Tags:
          - Key: name
            Value: sonar test Instance
        UserData:
          Fn::Base64: !Sub |
            #!/bin/bash -xe
            sudo su
            sudo yum update -y
            sudo wget https://d3pxv6yz143wms.cloudfront.net/11.0.5.10.1/
java-11-amazon-corretto-devel-11.0.5.10-1.x86_64.rpm
            sudo yum install -y java-11-amazon-corretto-devel-11.0.5.10-
1.x86_64.rpm
            sudo yum update -y
            sudo java -version
            sudo wget -0 /etc/yum.repos.d/sonar.repo http://downloads.so
urceforge.net/project/sonar-pkg/rpm/sonar.repo
            sudo yum install -y sonar
```

sudo service sonar restart

```
MyLoadBalancer:
  Type: AWS::ElasticLoadBalancing::LoadBalancer
  Properties:
    AvailabilityZones: !Ref azs
    Instances:
    - Ref: EC2Instance
    Listeners:
    - LoadBalancerPort: '9000'
      InstancePort: '9000'
      Protocol: HTTP
    HealthCheck:
      Target: HTTP:9000/
      HealthyThreshold: '10'
      UnhealthyThreshold: '2'
      Interval: '30'
      Timeout: '20'
    Tags:
      - Key: Name
        Value: sonar instance
InstanceSecurityGroup:
    Type: AWS::EC2::SecurityGroup
    Properties:
      GroupDescription: Enable SSH access via port 22
      SecurityGroupIngress:
      - IpProtocol: tcp
```

FromPort: 9000 ToPort: 9000

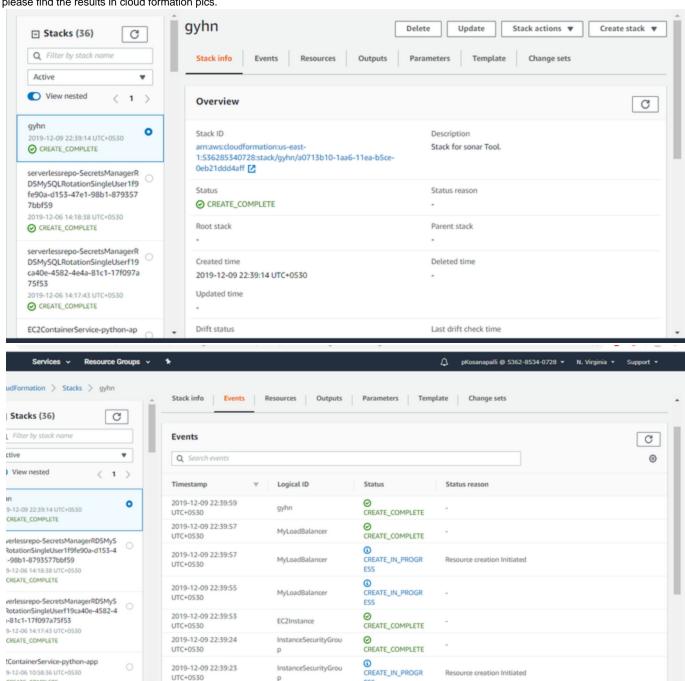
CidrIp: 0.0.0.0/0

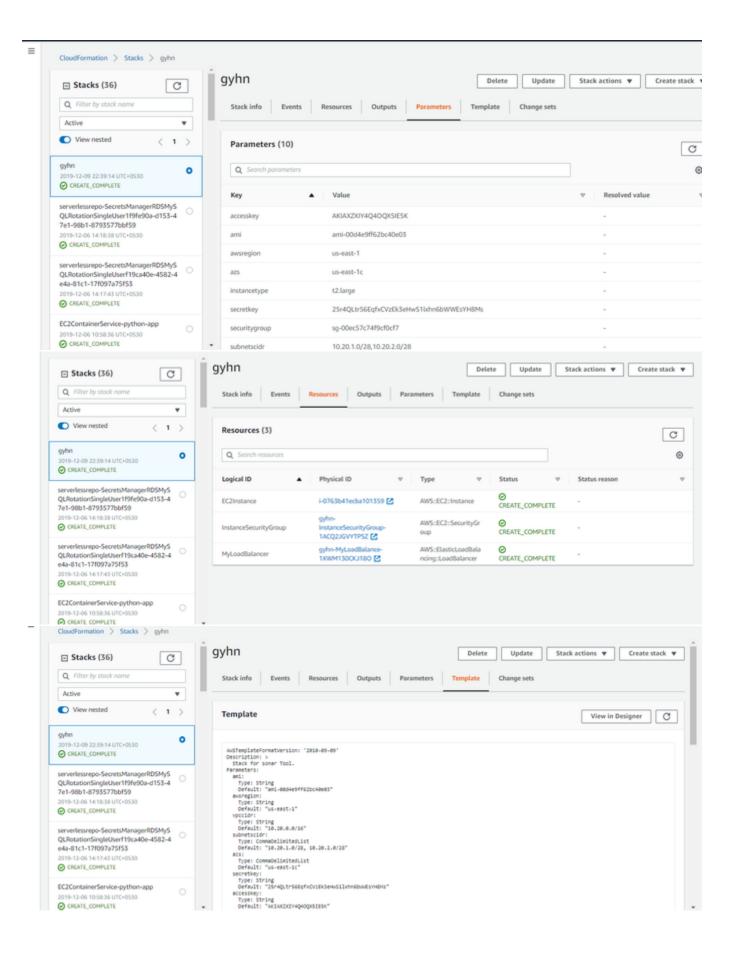
• To deploy this template run the following command,

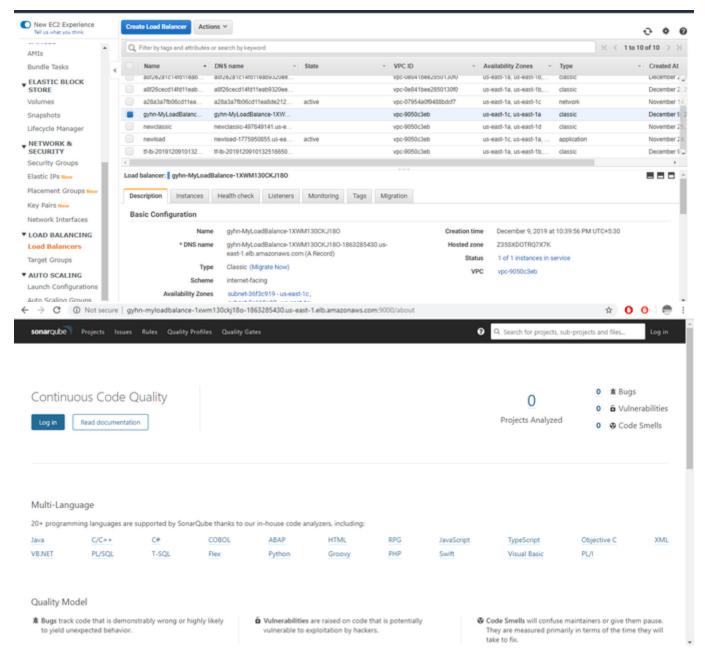
aws2 cloudformation deploy --template-file {file_name}.yaml --stack-name {name}

please find the results in cloud formation pics.

CREATE_COMPLETE







- Go to url and try the url with port number. you can see the sonar instance.
- To destroy the resource in aws, please go and delete the stack.

thats all done !!!