Sonarqube Setup

SonarQube is an open-source static testing analysis software, it is used by developers to manage source code quality and consistency.

toolbox

Prerequisites

Source: https://docs.sonarqube.org/latest/requirements/requirements/

An EC2 instance with a minimum of 2 GB RAM (t2.small)

Java 11 installation

amazon-linux-extras list

amazon-linux-extras install java-openjdk11

SonarQube cannot be run as root on Unix-based systems, so create a dedicated user account for SonarQube if necessary.

Installation steps

Download SonarQube latest verions on to EC2 instace

cd /opt

wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-x.x.zip

extract packages

unzip /opt/sonarqube-x.x.zip

Change ownershipt to the user and Switch to Linux binaries directory to start service

chown -R <sonar\_user>:<sonar\_user\_group> /opt/sonarqube-x.x

cd /opt/sonarqube-x.x/bin/linux-x86-64

./sonar.sh start

Connect to the SonarQube server through the browser. It uses port 9000.

Note: Port should be opened in the Security group

http://<Public-IP>:9000

Stop SonarQube server

cd /opt/sonarqube-x.x/bin/linux-x86-64

./sonar.sh stop

Terminate EC2 instance incase if you setup only for this lab.

pushpin Who is using this

People who want to setup SonarQube and would like to integrate with Jenkins

AWS/sonar SETUP:

Create sonarqube server in Aws

security grp--inboud rule-9000 port

To connect to instance mobaxterm

to provide the public ip and username ,private file to open the path .pem file

steps:

open the terminal in aws linux

install java ...switch to root user=sudo su -

to chk java installed or not----------------------java -version

To list java jdk---yum list | grep openjdk----to list open jdk

but if not available in list --amamazon-linux-extras you can enter this cmd

u can see java-openjdk11---amamazon-linux-extras install java-openjdk11 ---->install java

Installation steps

Download SonarQube latest verions on to EC2 instace

cd /opt

wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-x.x.zip

extract packagesextract packages

unzip /opt/sonarqube-x.x.zip

ll---->sonarqube-8.9.9.56886

cd sonarqube-8.9.9.56886

cd bin--------ll------cd linux`84.8.7--->ll------->sonar.sh---->./sonar.sh start(no root user to login ,add user and login with user account)

Change ownershipt to the user and Switch to Linux binaries directory to start service

chown -R <sonar\_user>:<sonar\_user\_group> /opt/sonarqube-x.x

(we have sonar.sh file over there without privilege we cannot able to start as a sonar admin so,we give access)

chowm -R sonaradmin:sonaradmin /opt/sonarqube-8.9.9.56886

(root user login ...but file is user/group-->useradd in change owner ship then only start sonar.sh)

su - sonaradmin---(user account to login and then start sonar)

To start the sonar

cd /opt/sonarqube-x.x/bin/linux-x86-64

./sonar.sh start

**Sonarqube server installation in AWS EC2**

PRE requisites software:

**Java is the PRE requisites software for sonarqube server**

**Java – version**

**Hardware Requirements:**

**Sonarque server requires atleast 2GB of RAM to run efficiently and 1 GB of free RAM for OS**

REF URL: https://docs.sonarqube.org/latest/requirements/requirements/

**INSTALLATION COMMANDS:**

**#LOGIN AS root user**

**Sudo su -**

**#download the sonarqube server software**

**Cd /opt**

**Wget <copy link sonar>**

**Unzip sonar.5678 zip**

**#sonarqube server is not advised to run sonar service as a root user,so...create new user called sonar and grand sudo access to manage server**

**Useradd sonar**

**#sudo access to sonar user**

**Visudo**

**Sonar ALL=(ALL) NOPASSWD:ALL OR ALL:ALL**

**#Change the owner and group permission to /opt/sonarqube-8.8/dir**

**Chown –R sonar:sonar /opt/sonarqube-8.9/**

**Chmod –R 775 /opt/sonarqube-8.9/**

**Su –sonar**

**Cd /opt/sonarqube-86/bin/linux-xxxxxx**

**./sonar.sh (start) or (stop)**

**Output:http://ip/hn server:9000**

**Troubleshooting:**

**Sonar service is not starting?**

**a)make sure you need to change the ownership and group to /opt/sonarqube-8.7/dir for sonar user**

**b)make sure you are trying to start sonar service with sonar user**

**c)chk java installed or not using java –version**

**#unable to access sonarqube server URL in browser?**

**a)make sure port 9000 is opened in security group in aws ec2 instance..**