Installing SonarQubeOn Ubuntu 16

Step 1: Perform a system update

Before installing any packages on the Ubuntu server instance, it is recommended to update the system. Log in using the sudo user and run the following commands to update the system.

sudo apt-get update

sudo apt-get -y upgrade

Step 2: Install JDK

Add the Oracle Java repository on the server by running.

sudo add-apt-repository ppa:webupd8team/java

sudo apt-get update

Install Oracle JDK by typing:

sudo apt install oracle-java8-installer

You can now check the version of Java by typing:

java -version

Step 3: Download and configure SonarQube

Download the SonarQube installer files archive.

wget https://sonarsource.bintray.com/Distribution/sonarqube/sonarqube-6.4.zip

You can always look for the link to the latest version of the application on the SonarQube download page.

Install unzip by running:

```
apt-get -y install unzip
```

Unzip the archive using the following command.

```
sudo unzip sonarqube-6.4.zip -d /opt
```

Rename the directory:

```
sudo mv /opt/sonarqube-6.4 /opt/sonarqube
```

Step 4: Configure Systemd service

SonarQube can be started directly using the startup script provided in the installer package. As a matter of convenience, you should setup a Systemd unit file for SonarQube.

```
nano /etc/systemd/system/sonar.service
```

Populate the file with:

```
[Unit]

Description=SonarQube service

After=syslog.targetnetwork.target

[Service]

Type=forking

ExecStart=/opt/sonarqube/bin/linux-x86-64/sonar.sh start

ExecStop=/opt/sonarqube/bin/linux-x86-64/sonar.sh stop

User=root

Group=root
```

Restart=always

[Install]

WantedBy=multi-user.target

Start the application by running:

sudosystemctl start sonar

Enable the SonarQube service to automatically start at boot time.

sudosystemctl enable sonar

To check if the service is running, run:

sudosystemctl status sonar

Access the sonarqube with http://<ipaddress>:9000

Configuring SonarQube in Jenkins

Install SonarQubeScannerFor Jenkins Plugin using Plugins Section

Navigate Manage Jenkins => Global System & scroll down to sonarqube servers

1. Add SonarQube Installation and enter following details

Create a new Jenkins Pipeline project and seek help from one of the scripts in section
https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Scanner+for+Jenkins