Install SonarQube on Ubuntu Community Edition
Prerequisites
A fresh Ubuntu 22.04 dedicated server
A user with sudo privileges
Java 11 or 17 installed
we have used cloud server with the configuration of 2vCPU, 4GB RAM, 80GB SSD.
It should have at least 2GB of RAM 1 CPU core and 30GB free space.

Step 1: Update the System
First, ensure your system is up-to-date:

```
sudo apt update
sudo apt upgrade -y
Step 2: Install Java
```


```
sudo apt install openjdk-17-jdk -y
Verify the installation:

java -version
```

Step 3: Install SonarQube
Download the latest SonarQube version:

```
wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-10.5.1.90531.zip
Extract the SonarQube package:

unzip sonarqube-10.5.1.90531.zip
sudo mv sonarqube-10.5.1.90531 /opt/sonarqube
```

Create a SonarQube user:

```
sudo adduser --system --no-create-home --group --disabled-login sonarqube
```

Change ownership of the SonarQube directory:

```
sudo chown -R sonarqube:sonarqube /opt/sonarqube
```

Step 5: Create a Systemd Service File
Create a new service file for SonarQube:

```
sudo nano /etc/systemd/system/sonarqube.service
Add the following content:

[Unit]
Description=SonarQube service
After=syslog.target network.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=sonarqube
Group=sonarqube
Restart=always

LimitNOFILE=65536
LimitNPROC=4096

[Install]
WantedBy=multi-user.target
Reload the systemd daemon and start SonarQube:

sudo systemctl daemon-reload
sudo systemctl start sonarqube
sudo systemctl enable sonarqube
sudo systemctl status sonarqube
Step 9: Access SonarQube
```
Open your web browser and go to https://your_domain_or_ip.
You should see the SonarQube login page. The default credentials are:

Username: admin
Password: admin
Upon first login, you will be prompted to change the default password.