**1) Create one jenkins job using the below code and create three stages.**

**stage1: Git clone to download the source code.**

**stage2: Sonarqube Integration to check the quality of code**

**stage3: Slack Integration to send the alerts to slack.**

**URL:** [**https://github.com/betawins/VProfile-1.git**](https://github.com/betawins/VProfile-1.git)

**2) 1) Create one jenkins job using the below code and create three stages.**

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**URL:** [**https://github.com/betawins/hiring-app.git**](https://github.com/betawins/hiring-app.git)

**========================================================================**

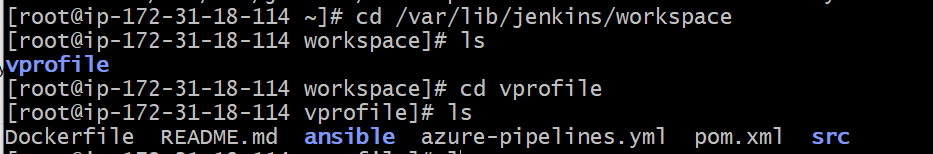
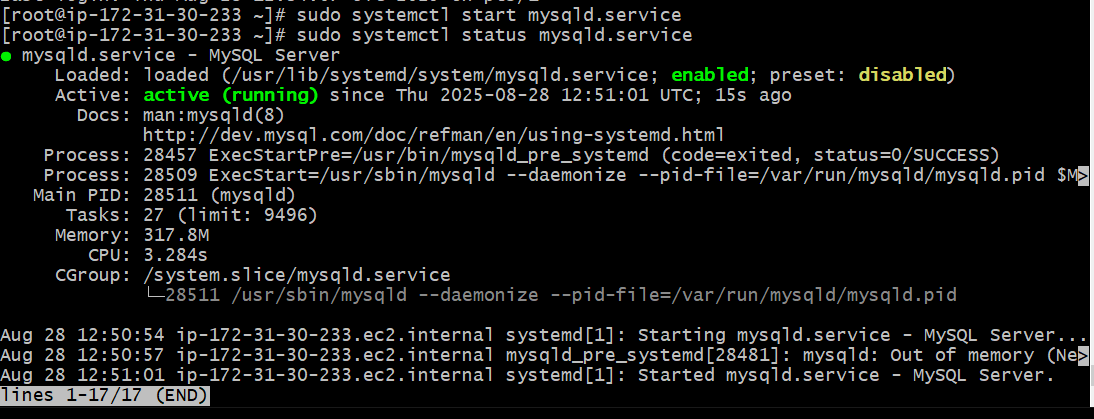
**1) Create one jenkins job using the below code and create three stages.**

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1. **Launched one instance, installed java and jenkins, created one job and done cloning the source code.**
2. ****
3. **Now launched another instance for sonar with t2.large type and installed java**
4. **yum -y install java-1.8\***
5. **Now install mysql.**
6. ****
7. ****
8. **Now change the password**
9. **Check the password and login to myql and change**
10. **grep 'temporary' /var/log/mysqld.log**
11. **Then using default password login to mysql and change password**
12. **mysql -u root -p**
13. **ALTER USER 'root'@'localhost' IDENTIFIED BY 'Admin@12345';**
14. **FLUSH PRIVILEGES;**
15. **mysql -u root -p**

**Download SonarQube**

**In EC2 user (not root)**

1. **cd /opt**

**wget** [**https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-6.6.zip**](https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-6.6.zip)

**unzip sonarqube-6.6.zip**

**mv /opt/sonarqube-6.6 /opt/sonar**

1. **SonarQube requires a database (commonly MySQL, PostgreSQL, etc.) to store all its configuration and analysis data.**
2. **mysql -u root -p**

**CREATE DATABASE sonar CHARACTER SET utf8 COLLATE utf8\_general\_ci;**

**CREATE USER 'sonar'@'localhost' IDENTIFIED BY 'Sonar@123';**

**CREATE USER 'sonar'@'%' IDENTIFIED BY 'Sonar@123';**

**GRANT ALL PRIVILEGES ON sonar.\* TO 'sonar'@'localhost';**

**GRANT ALL PRIVILEGES ON sonar.\* TO 'sonar'@'%';**

**FLUSH PRIVILEGES;**

**Now you have:**

* **Database → sonar**
* **User → sonar**
* **Password → Sonar@123**

1. **ON sonar EC2 Instance (not root)**

**Edit sonar properties file to uncomment and provide required information for below properties.**

* **File Name:cd /opt/sonar/conf/sonar.properties**

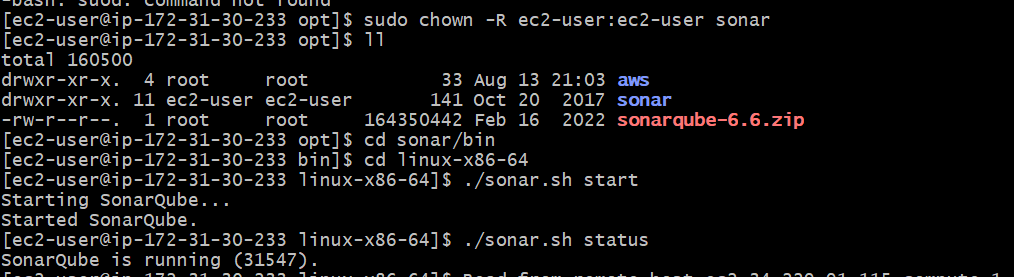
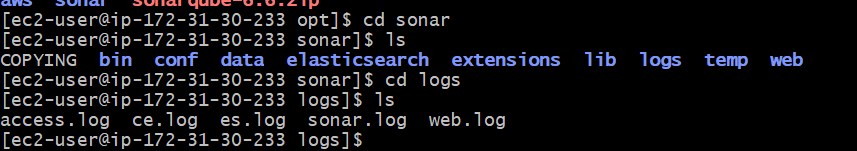
**sonar.jdbc.username=sonar**

**sonar.jdbc.password=Sonar@123**

**sonar.jdbc.url=jdbc:mysql://localhost:3306/sonar?useUnicode=true&characterEncoding=utf8&rewriteBatchedStatements=true&useConfigs=maxPerformance&useSSL=false**

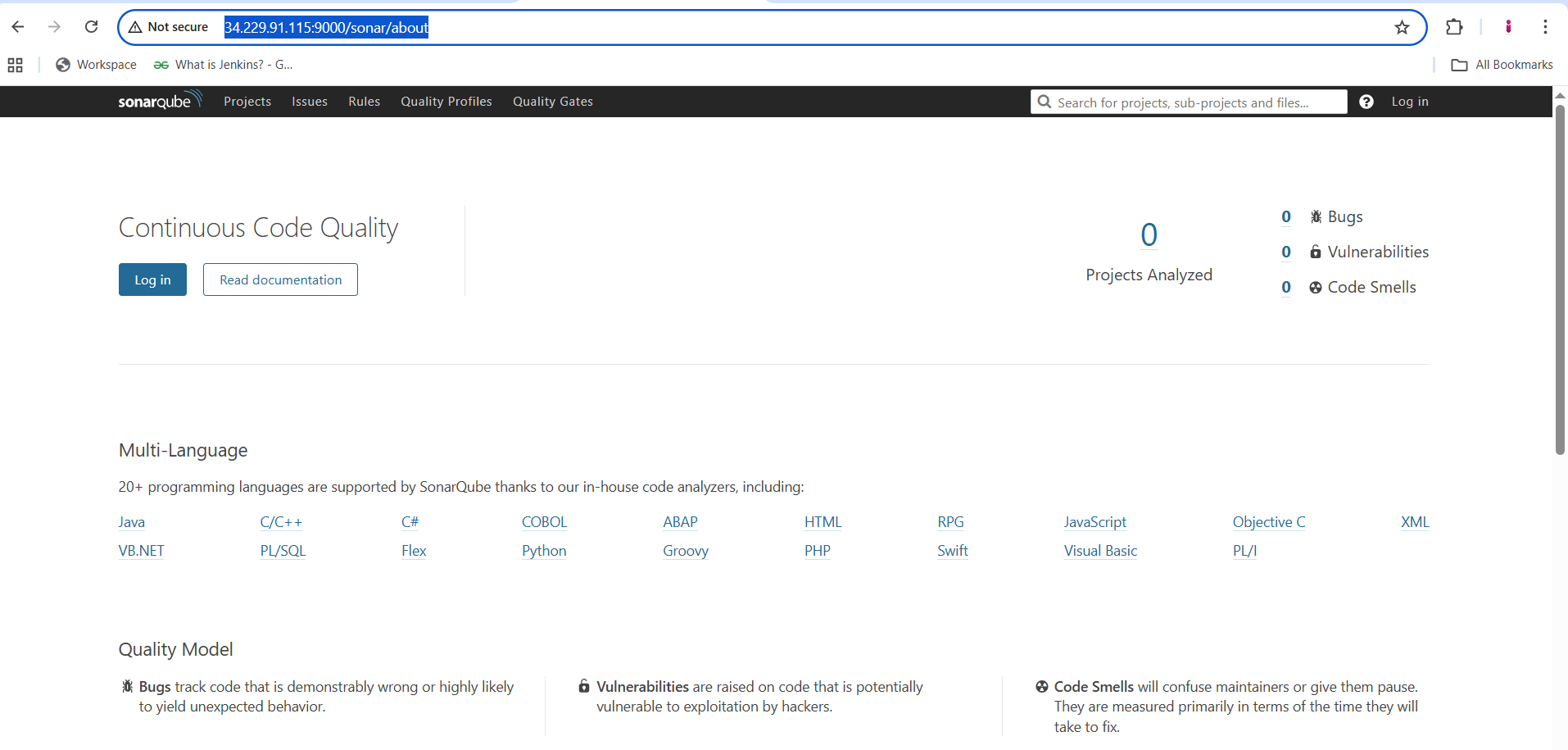
**sonar.web.host=0.0.0.0**

**sonar.web.context=**/sonar

1. **Now in EC2 goto /opt give chown ownership to ec2-user**
2. **Sudo chown -R ec2-user:ec2-user sonar**
3. **cd /opt/sonar/bin/linux-x86-64**
4. **./sonar.sh start**
5. **./sonar.sh status**
6. ****
7. **If any thing wrong u can check logs**
8. ****
9. **Cd /opt/sonar/logs**

**Now goto browser new tab**

[**http://34.229.91.115:9000/sonar**](http://34.229.91.115:9000/sonar)

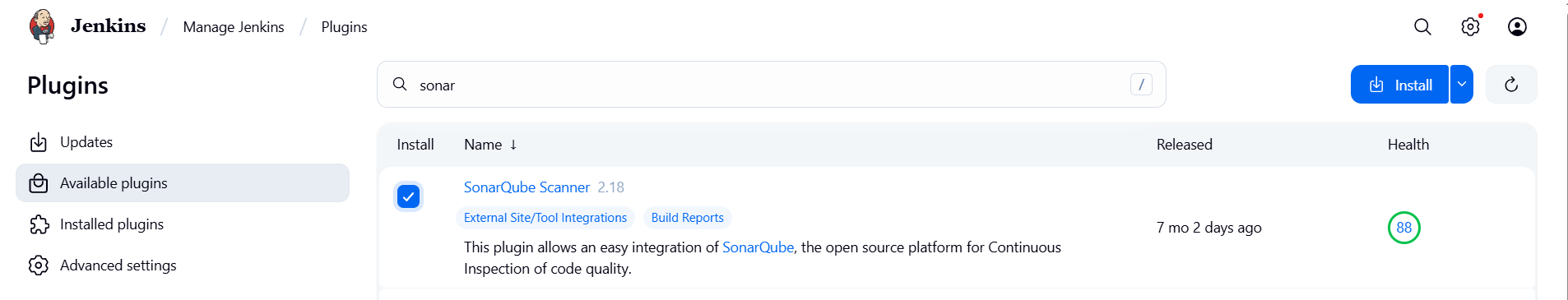
****

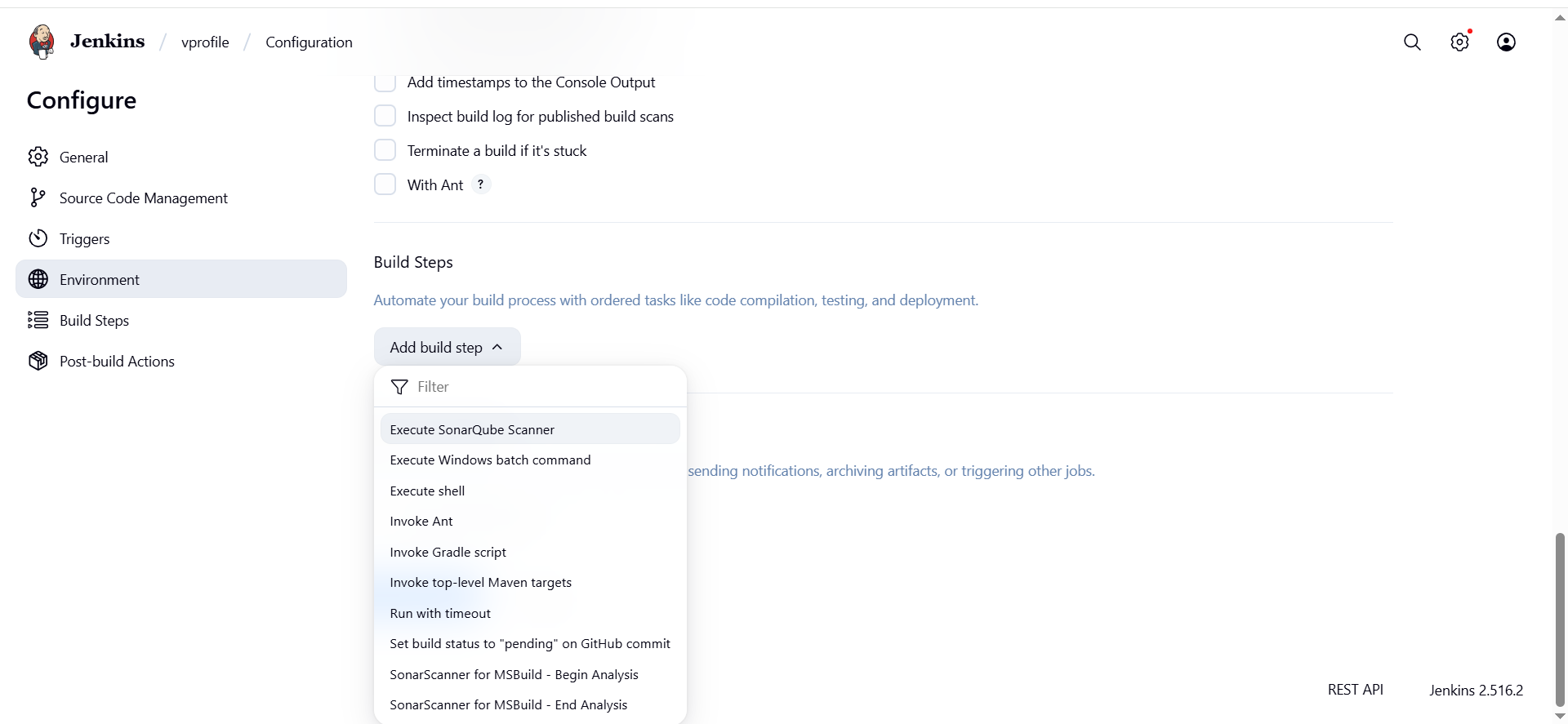
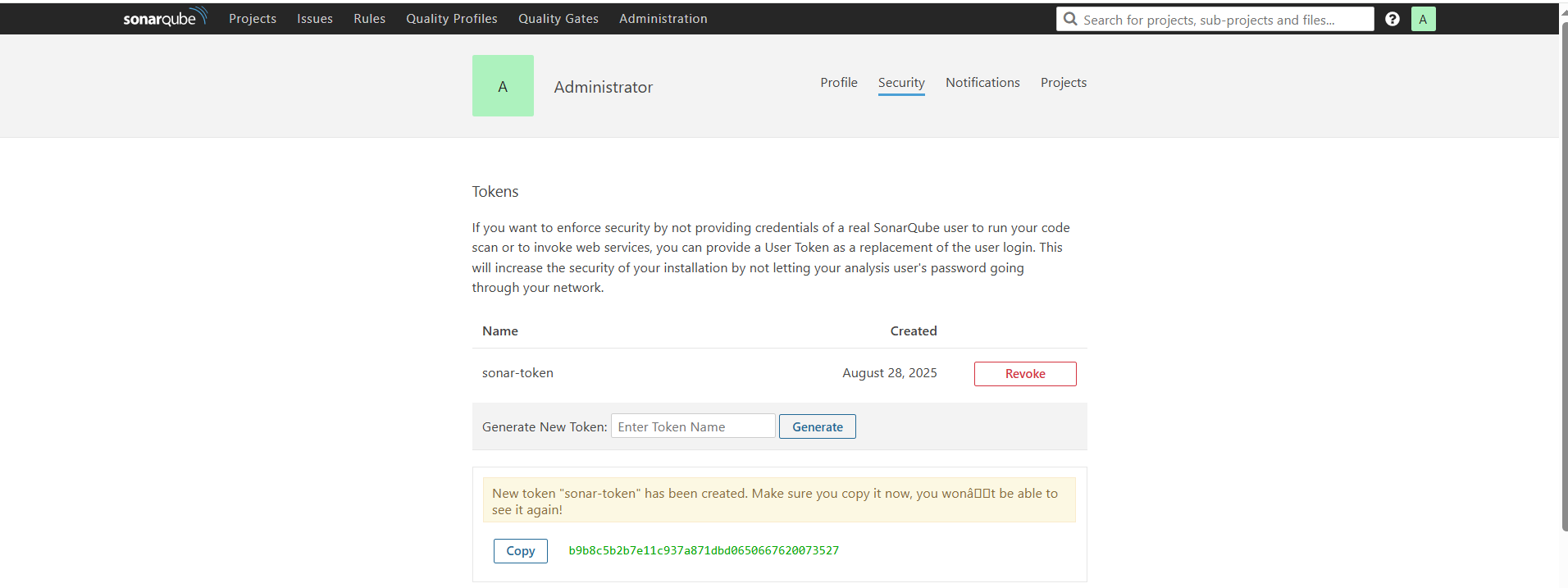
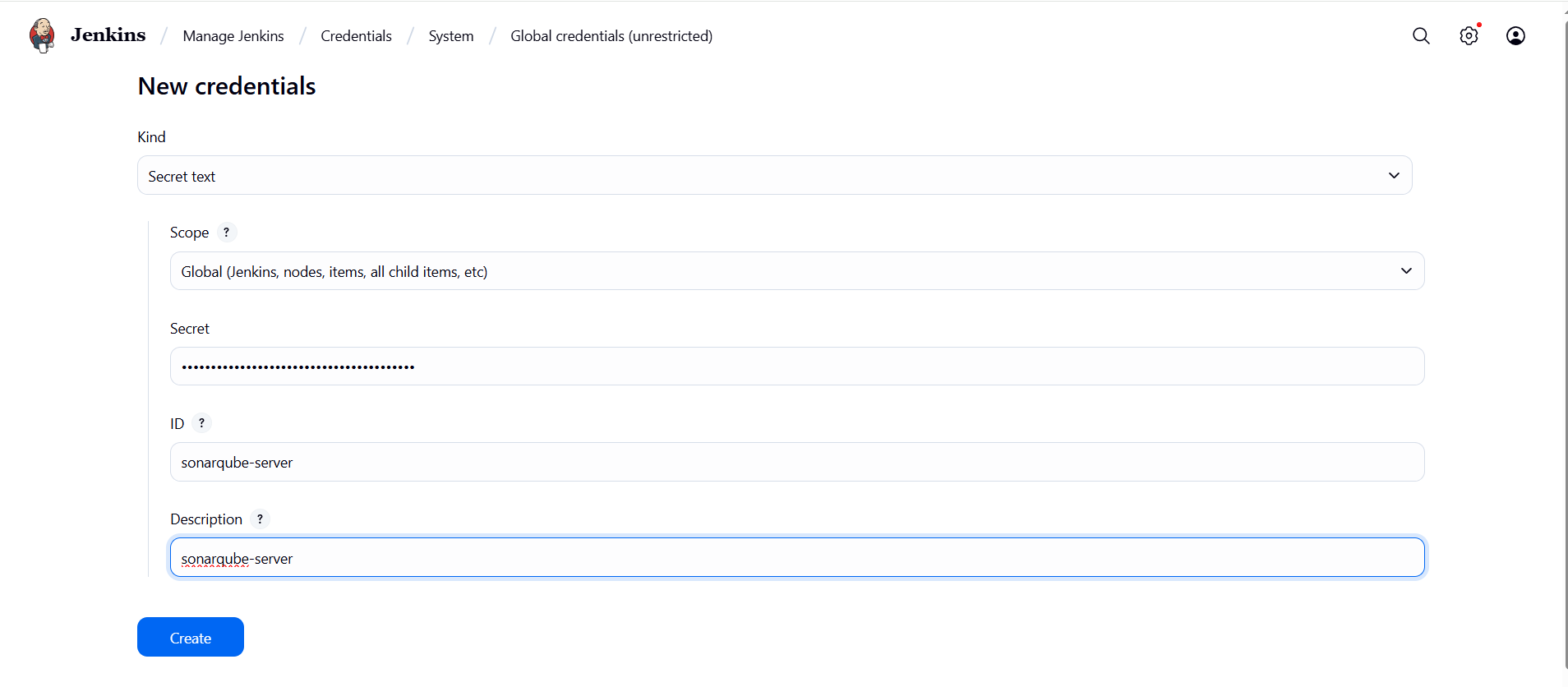
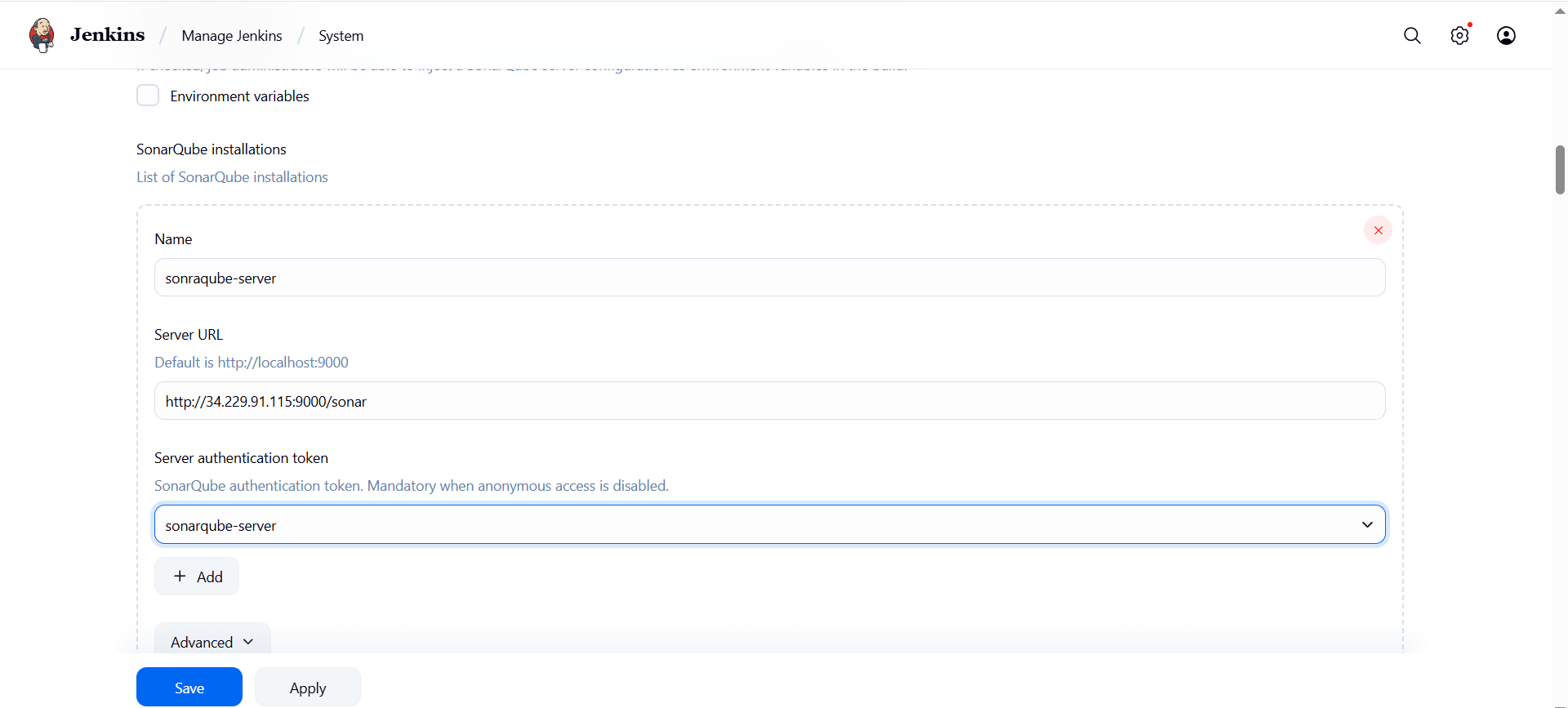
**Login to sonar with default login details**

**admin**

**admin**

1. **Now from jenkins master server → install plugin sonrqube scanner in jenkins**

****

1. **In build setup you found sonar**
2. ****
3. **You found sonar in system also**
4. ****
5. **Now add sonarqube server before that goto sonarqube page create token.**
6. ****
7. **Add the token in jenkins → credentials**
8. ****
9. **Now add sonarqube-server**
10. ****

**Sonar Integration with jenkins.**

**1. Go to jenkins server and install sonar-scanner agent**

**Cd /opt**

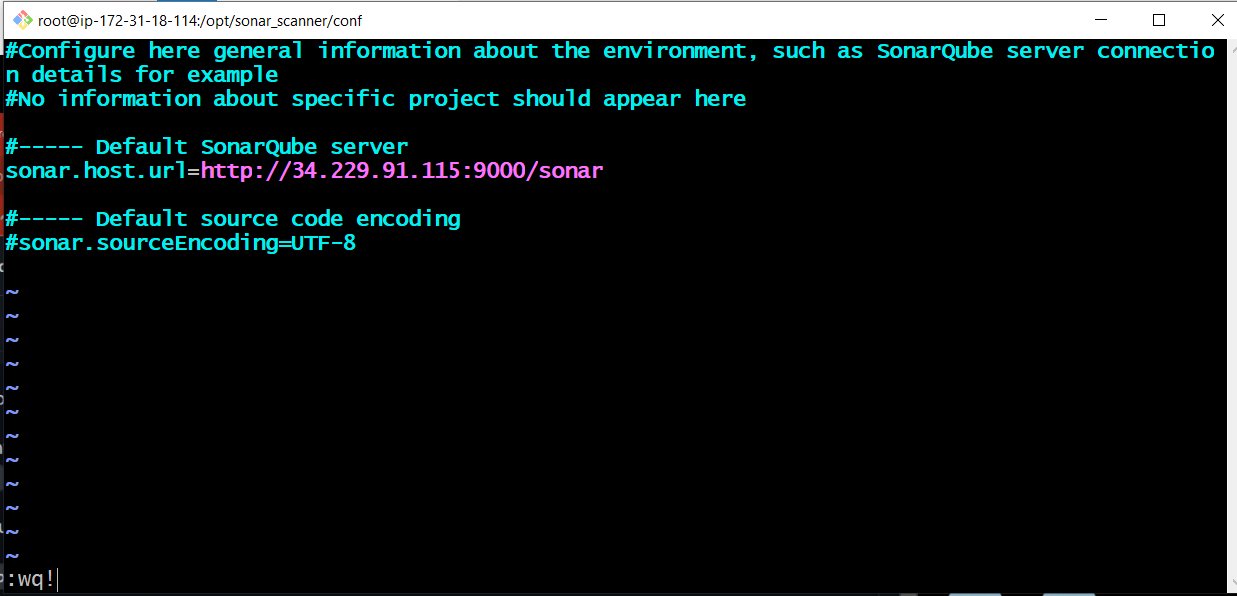
**wget https://binaries.sonarsource.com/Distribution/sonar-scanner-cli/sonar-scanner-cli-4.6.2.2472-linux.zip**

**unzip sonar-scanner-cli-4.6.2.2472-linux.zip**

**mv sonar-scanner-4.6.2.2472-linux /opt/sonar\_scanner**

**in jenkins server**

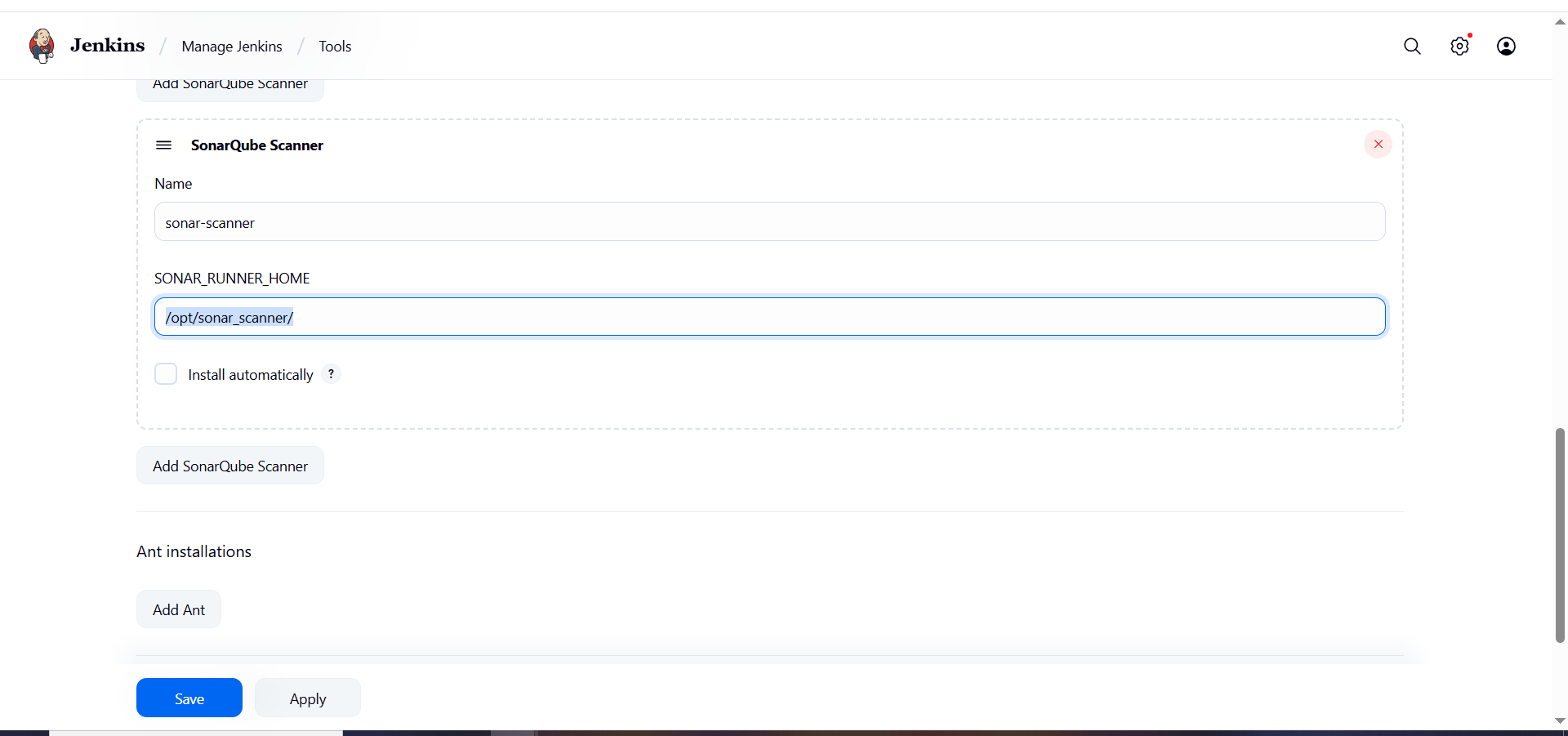
1. **cd /opt/sonar\_scanner/conf**
2. **Edit → vi sonar-scanner.properties**
3. **Modify → sonar.host.url=**[**http://34.229.91.115:9000/sonar**](http://34.229.91.115:9000/sonar)

****

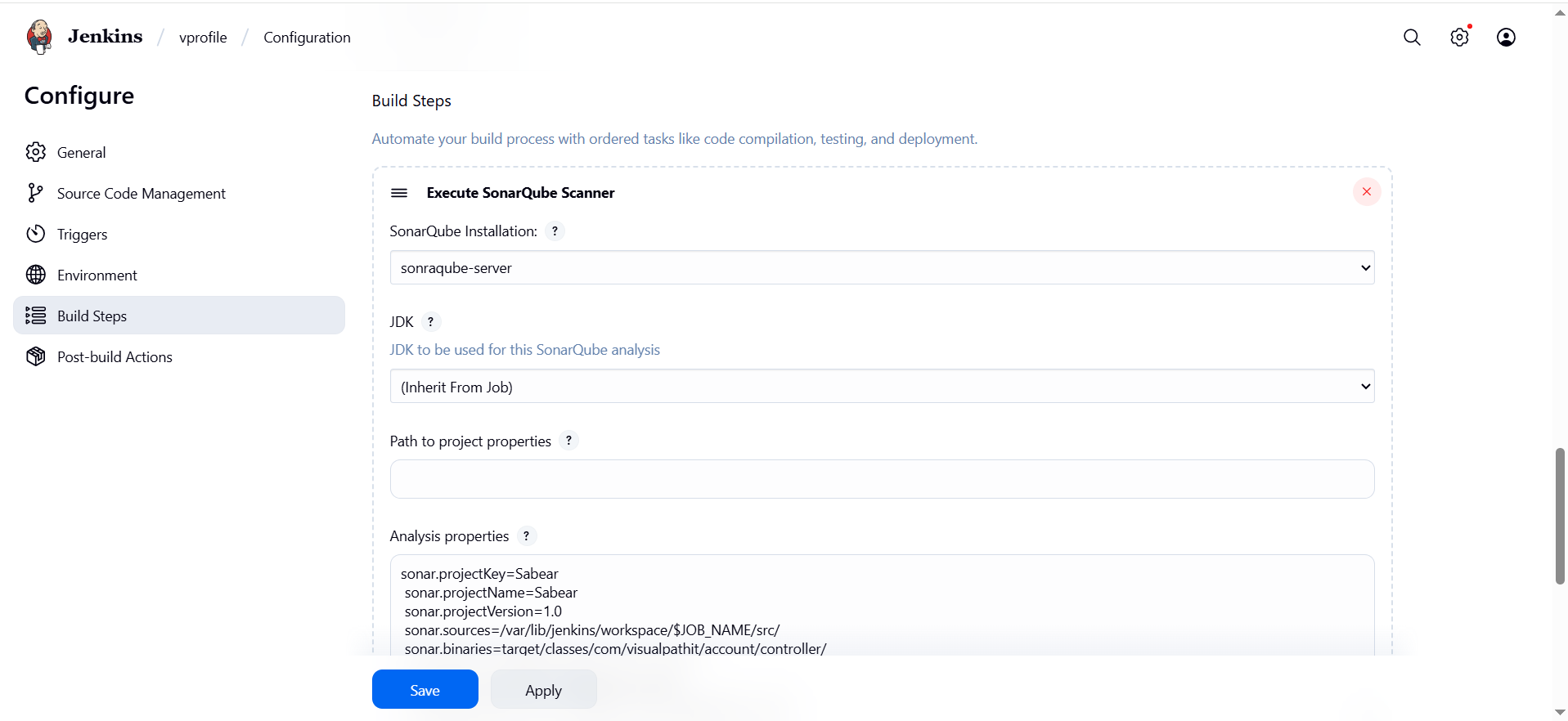
**2. Goto manage jenkins tool configuration**

**Add sonar-scanner**

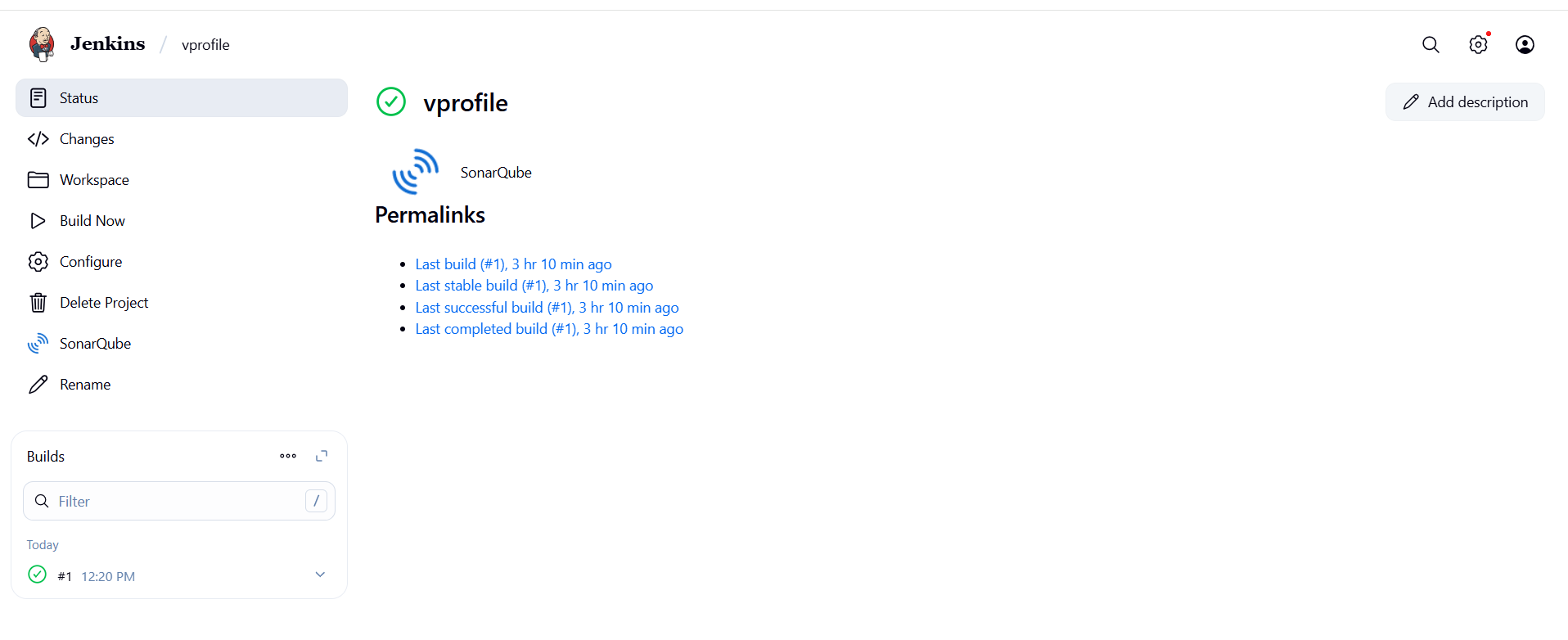
**/opt/sonar\_scanner/**

****

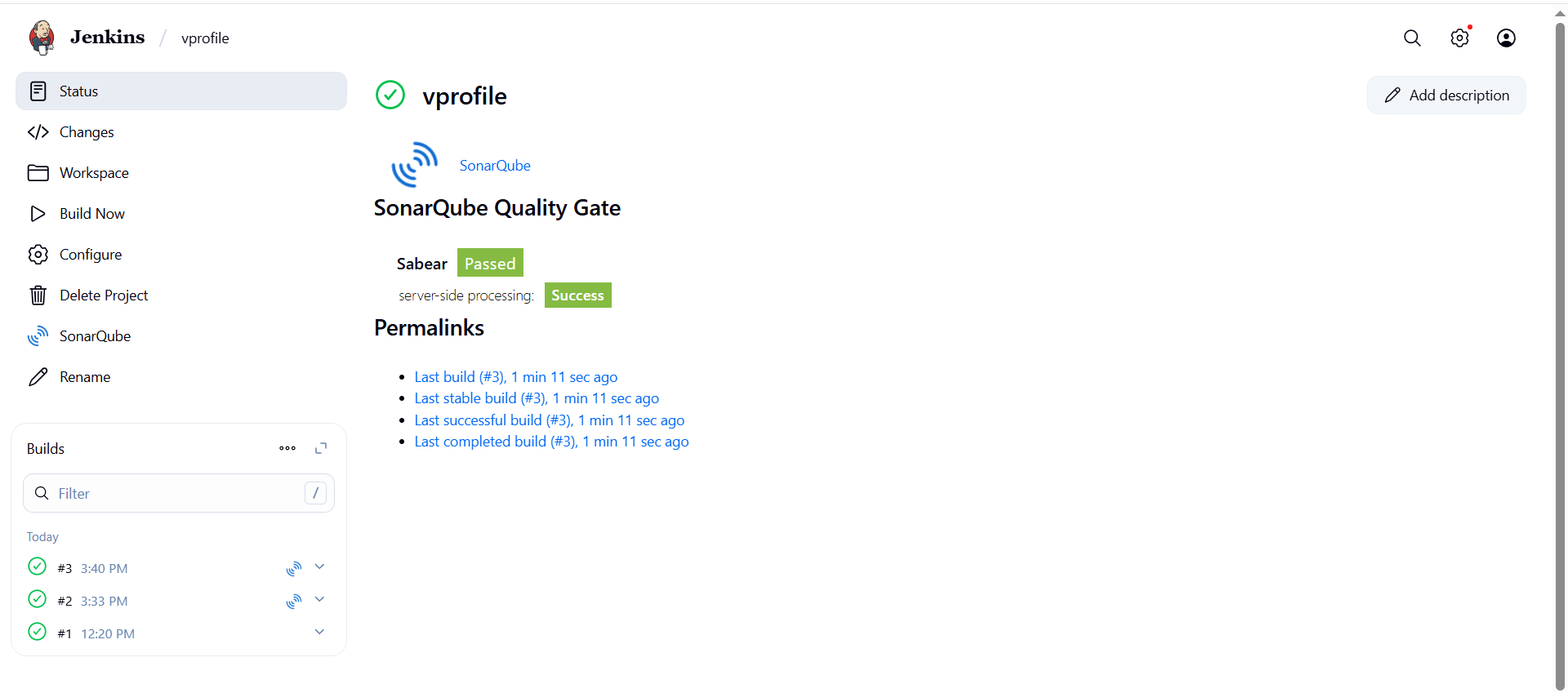
**3. Now in vprofile job go to configure, add analysis properties they will mentioned in git hub repo** [**read.me**](http://read.me) **file.**

****

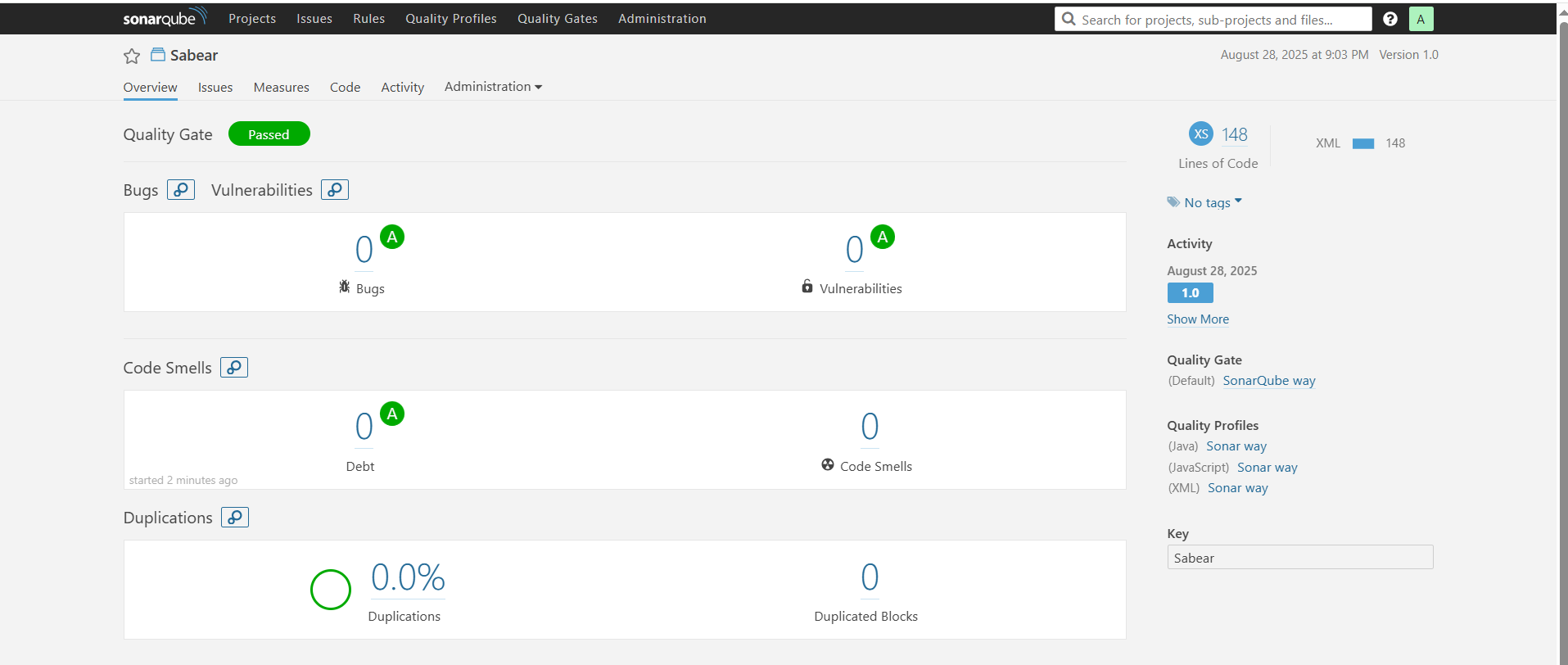
****

**4. 5.Now build the job.**

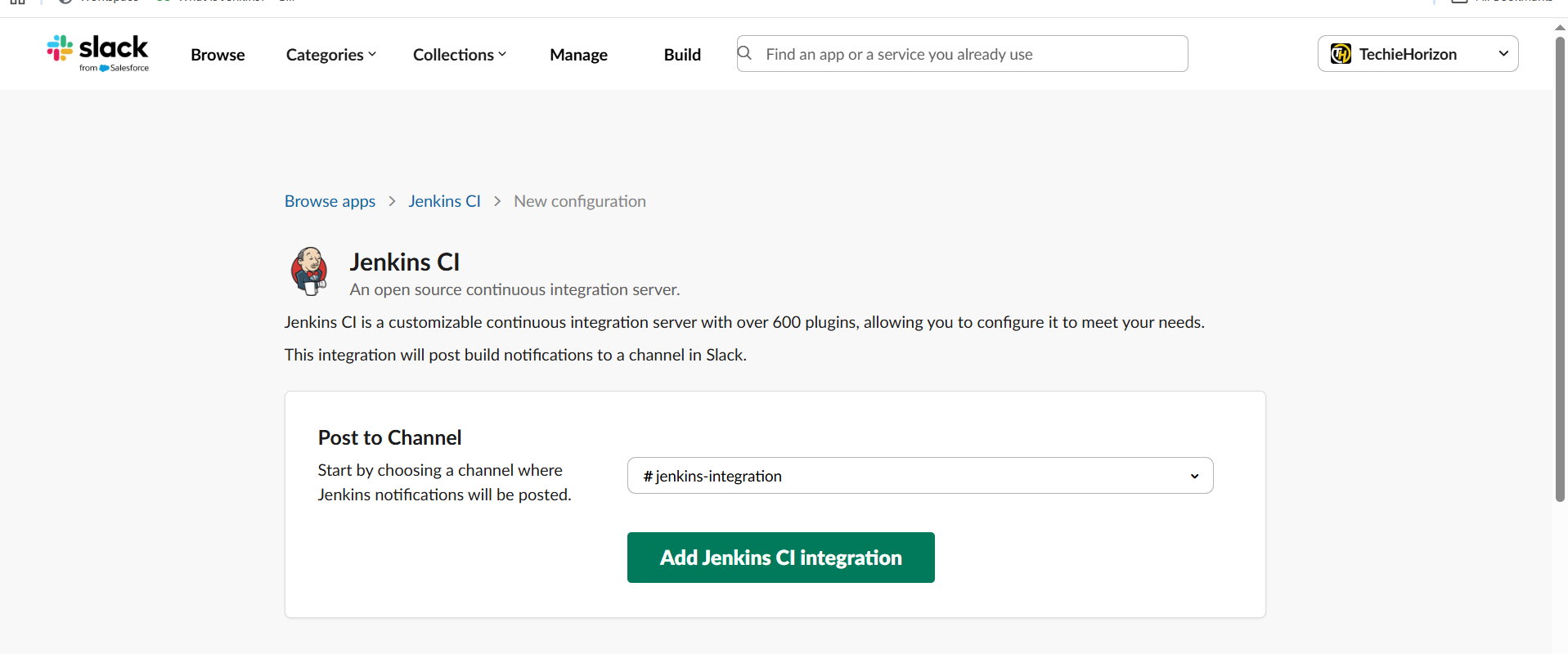
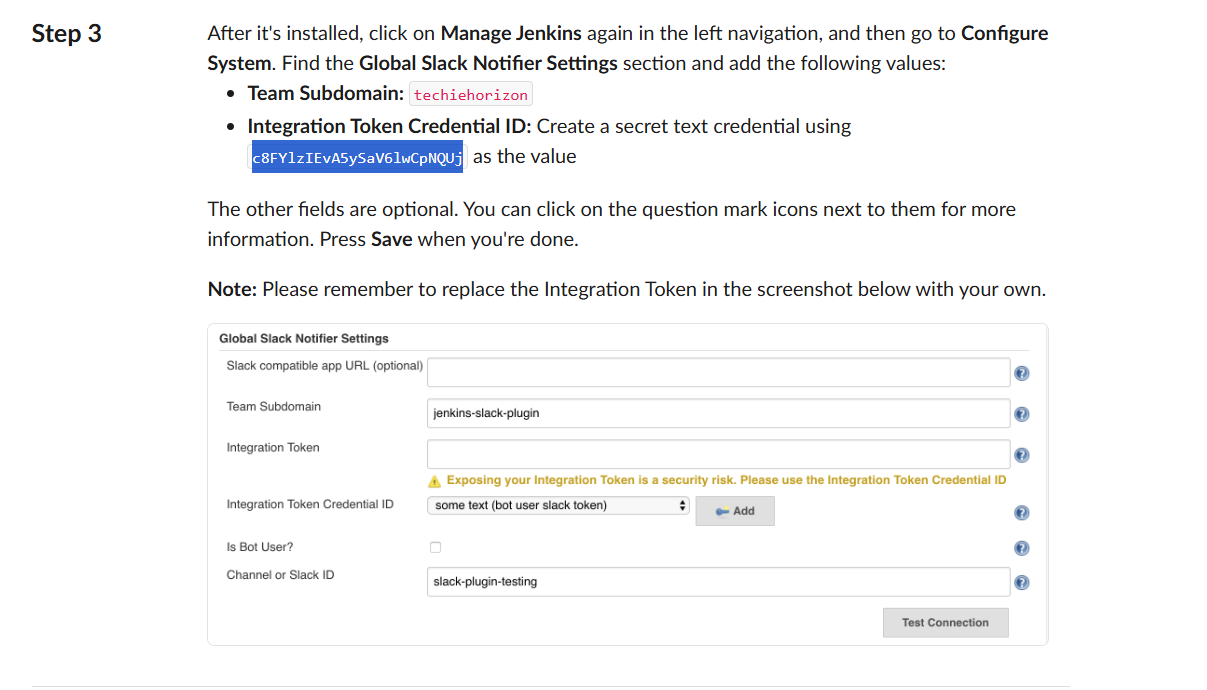
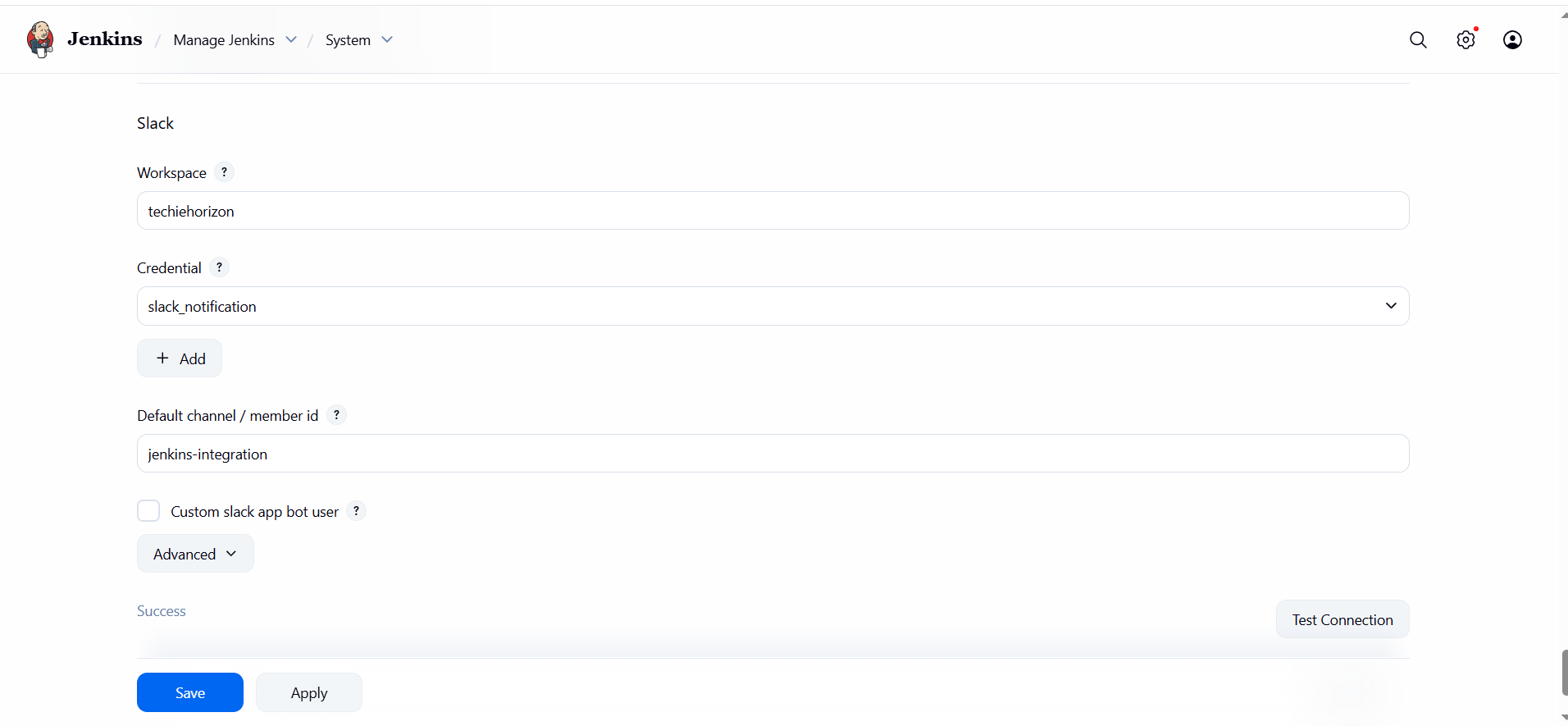
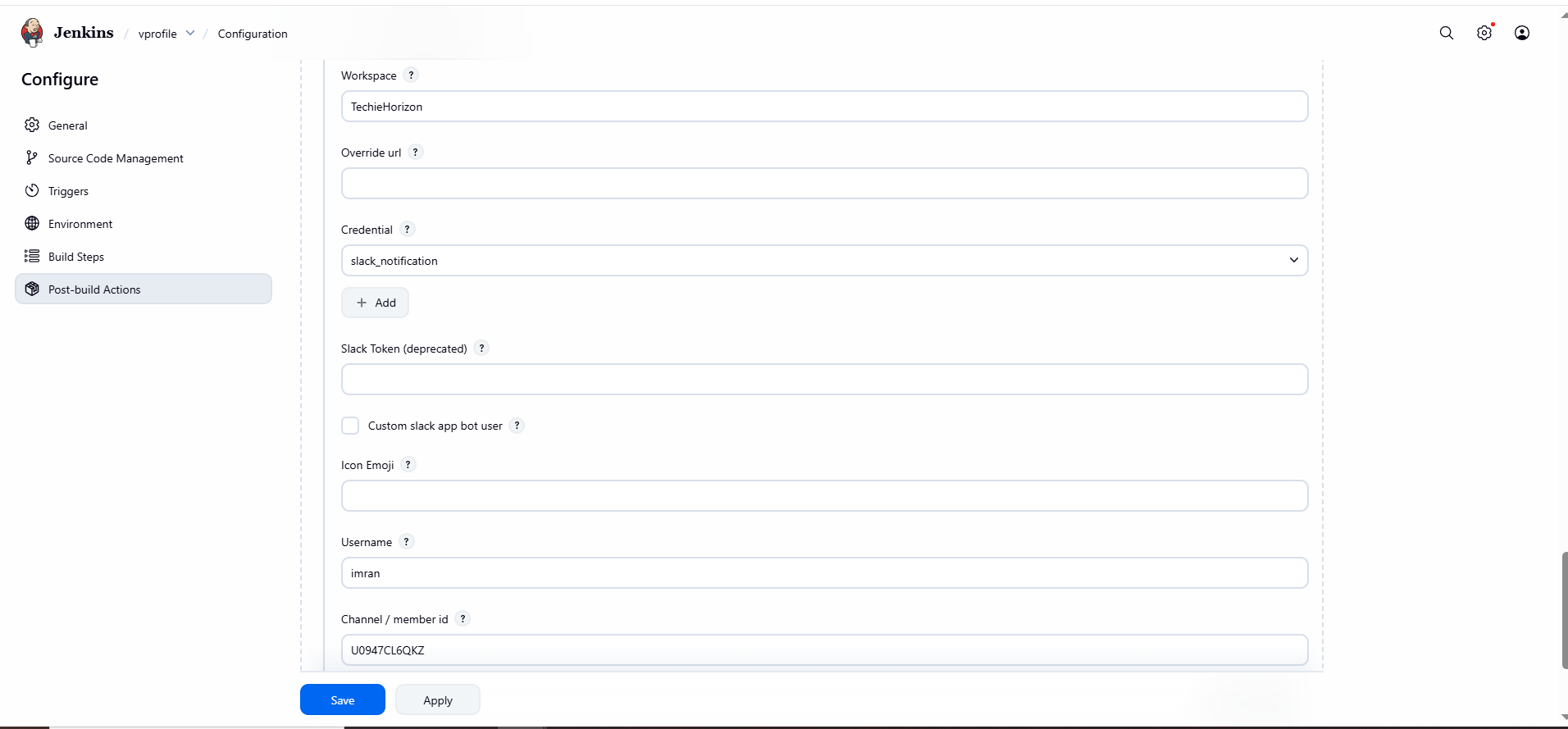
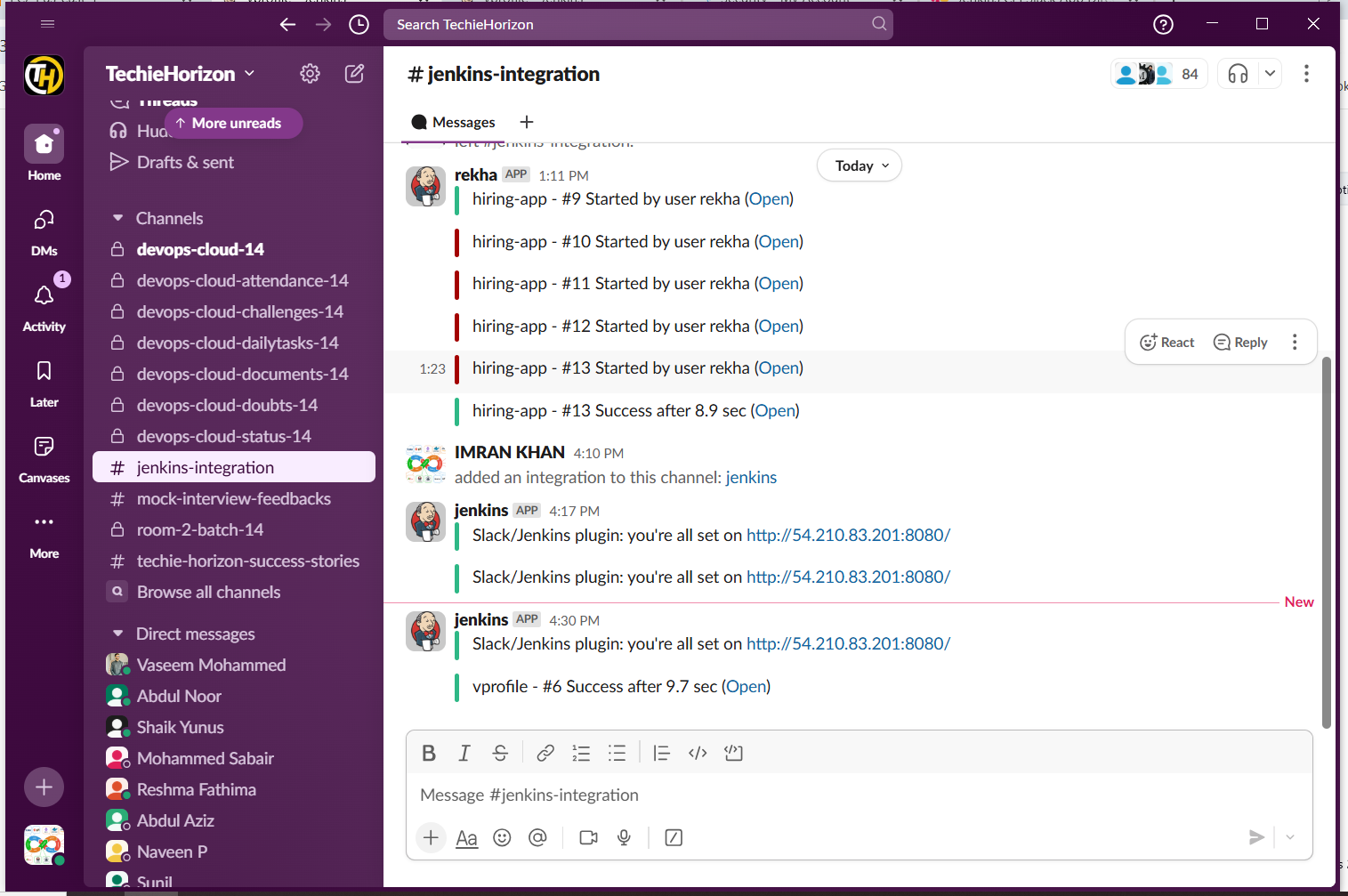
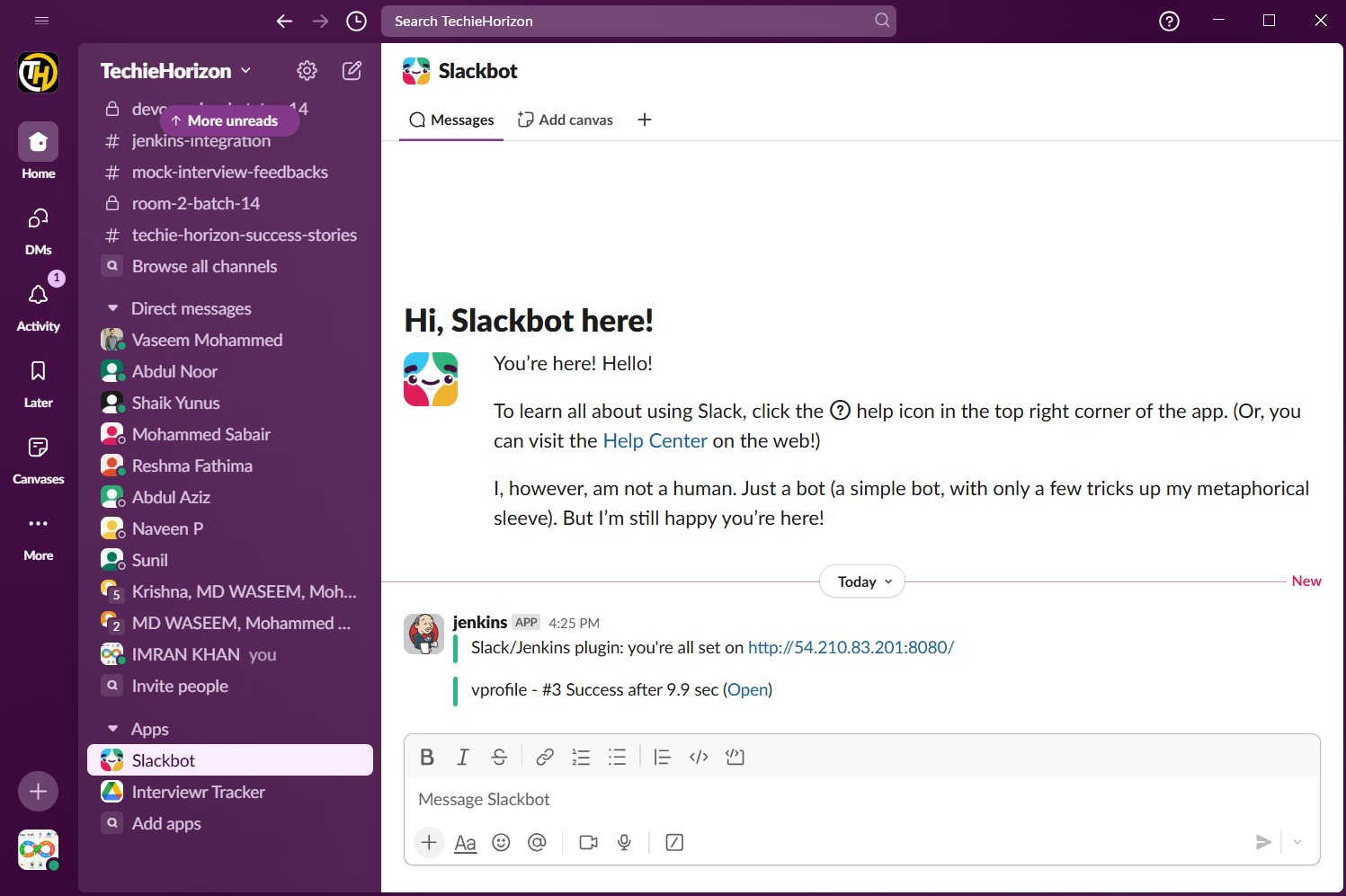
****

****

**6. You can check sonarqube page.**

****

**Slack notification**

1. **Install plugin slack notification in jenkins**
2. **Go to your slack dashboard → apps → jenkins CI → configure → add channel**
3. ****
4. **Once add jenkins from above follow the steps.**
5. ****
6. **.and add credential also Now manage jenkins → system → slack**
7. ****
8. **Now in job profile post build actions , in advanced enter details.channel name or your slack id.**
9. ****
10. **Now build your vprofile job then after success you got notification.**
11. ****
12. ****

**2) 1) Create one jenkins job using the below code and create three stages.**

**stage1: Git clone to download the source code.**

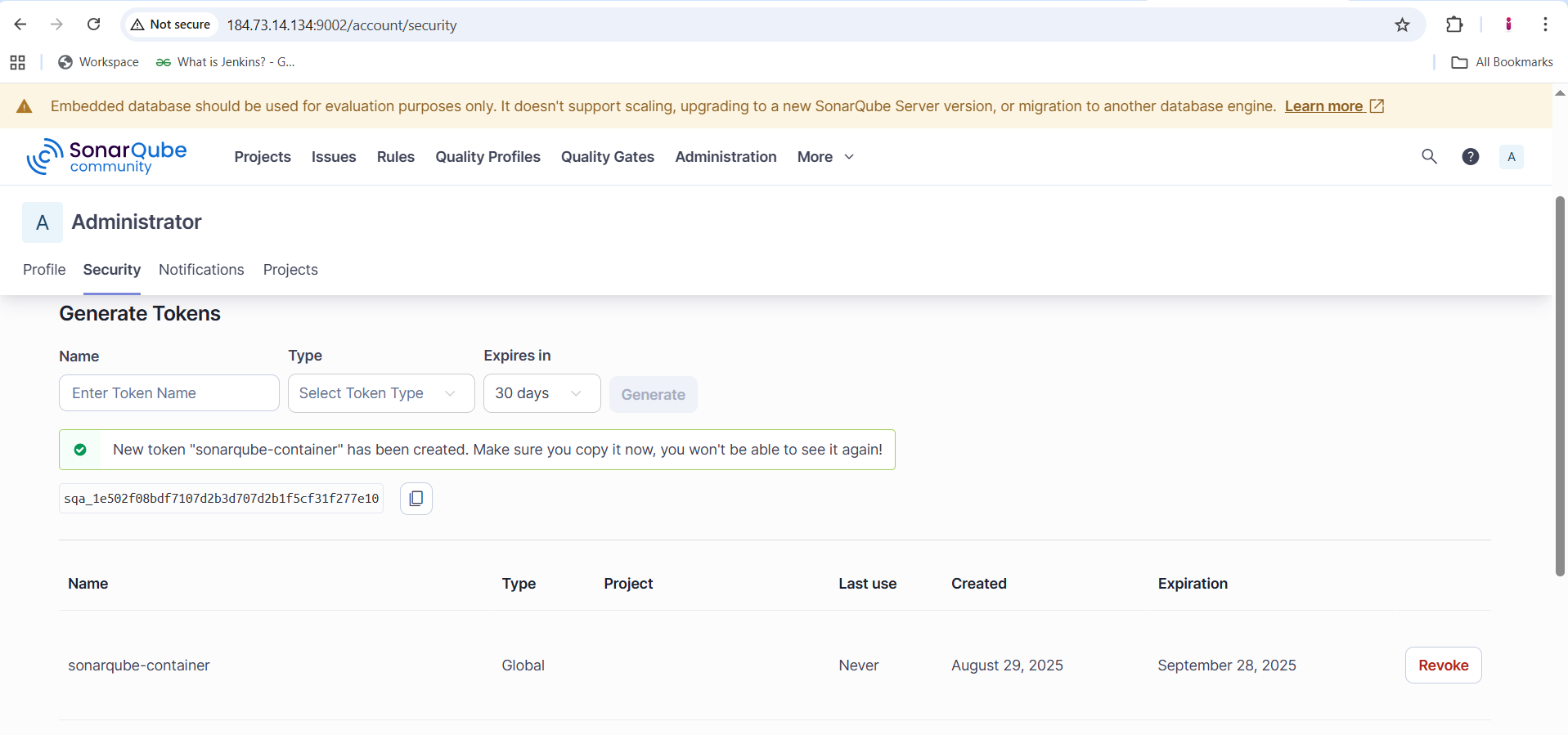
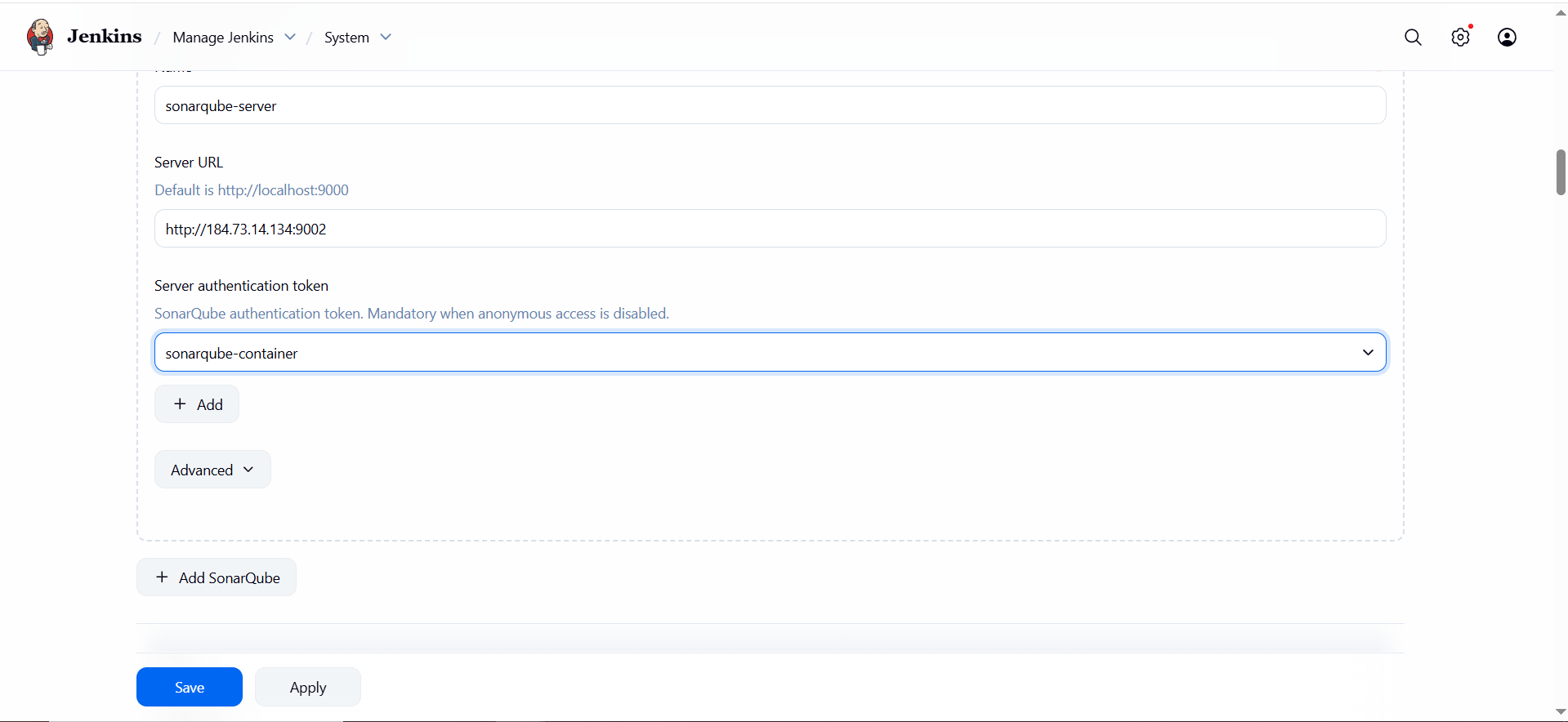
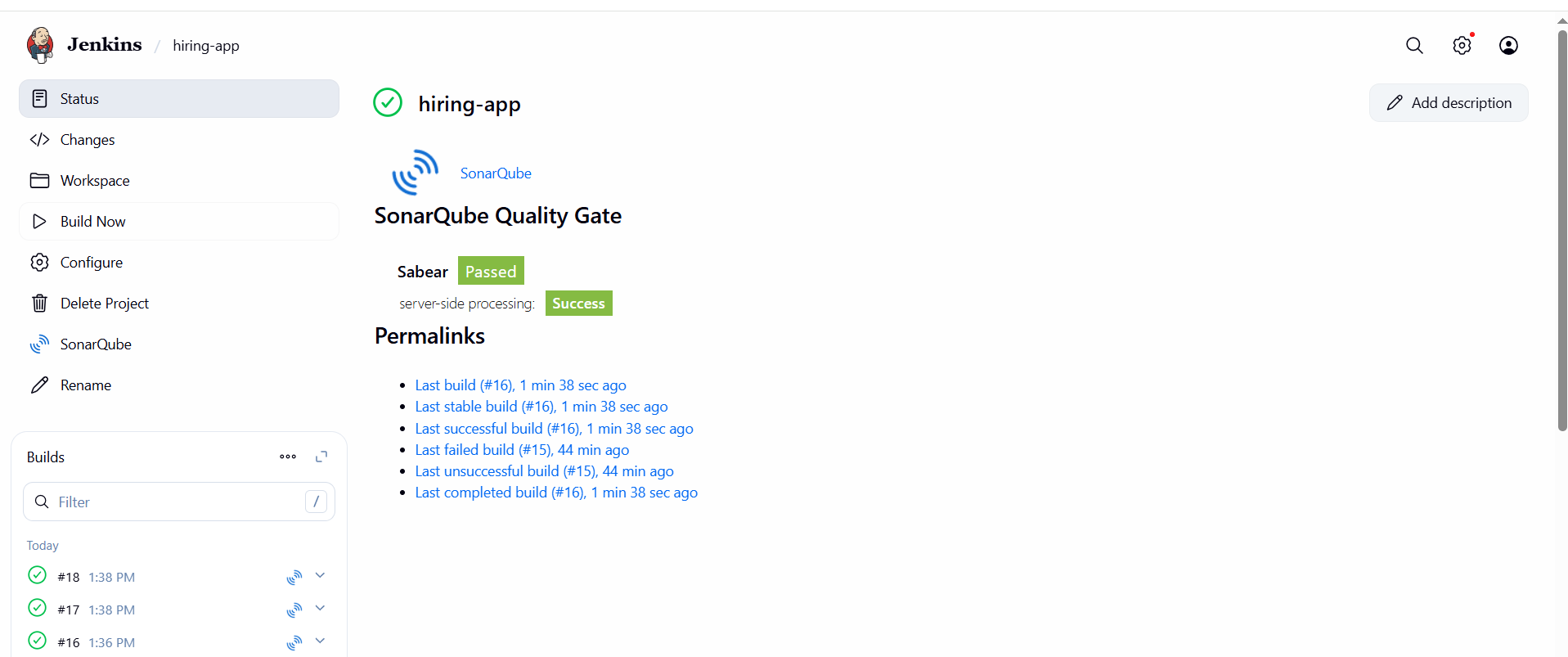
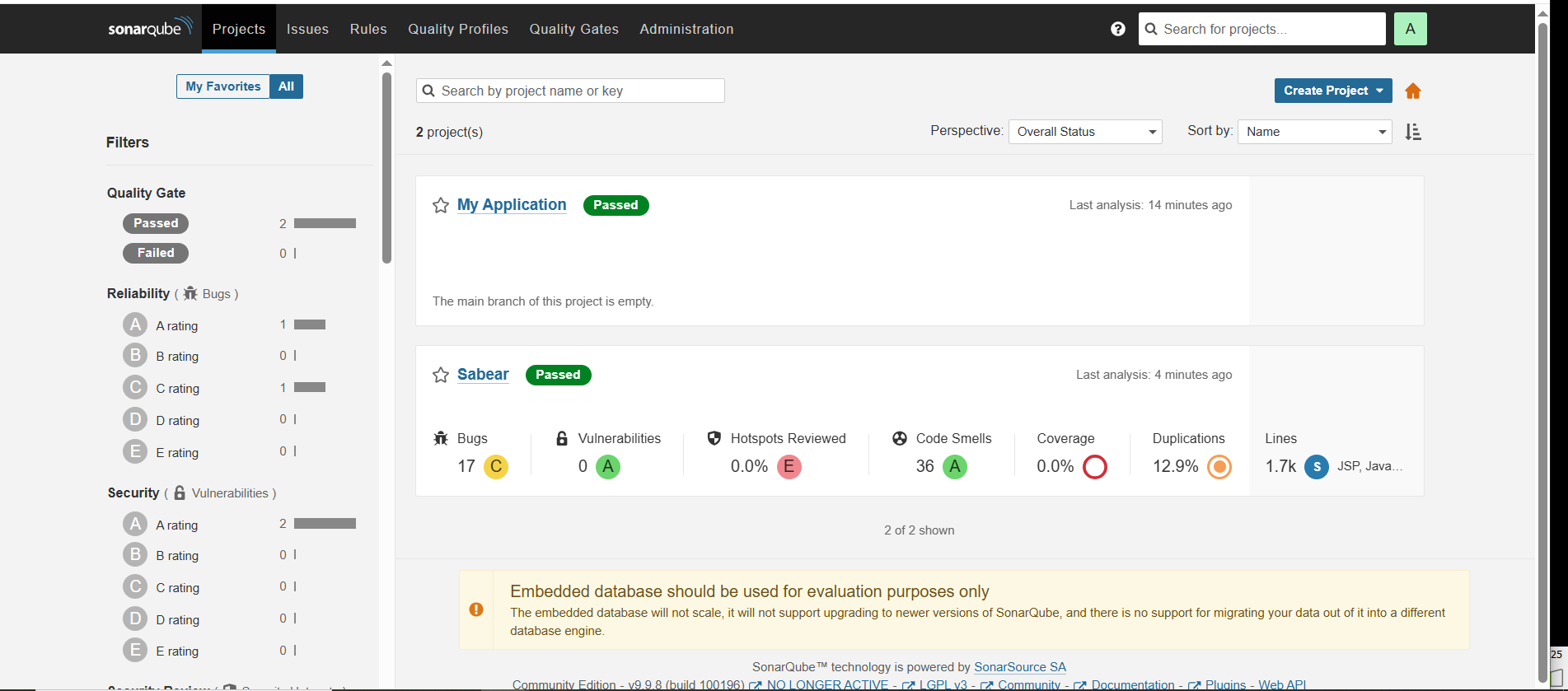
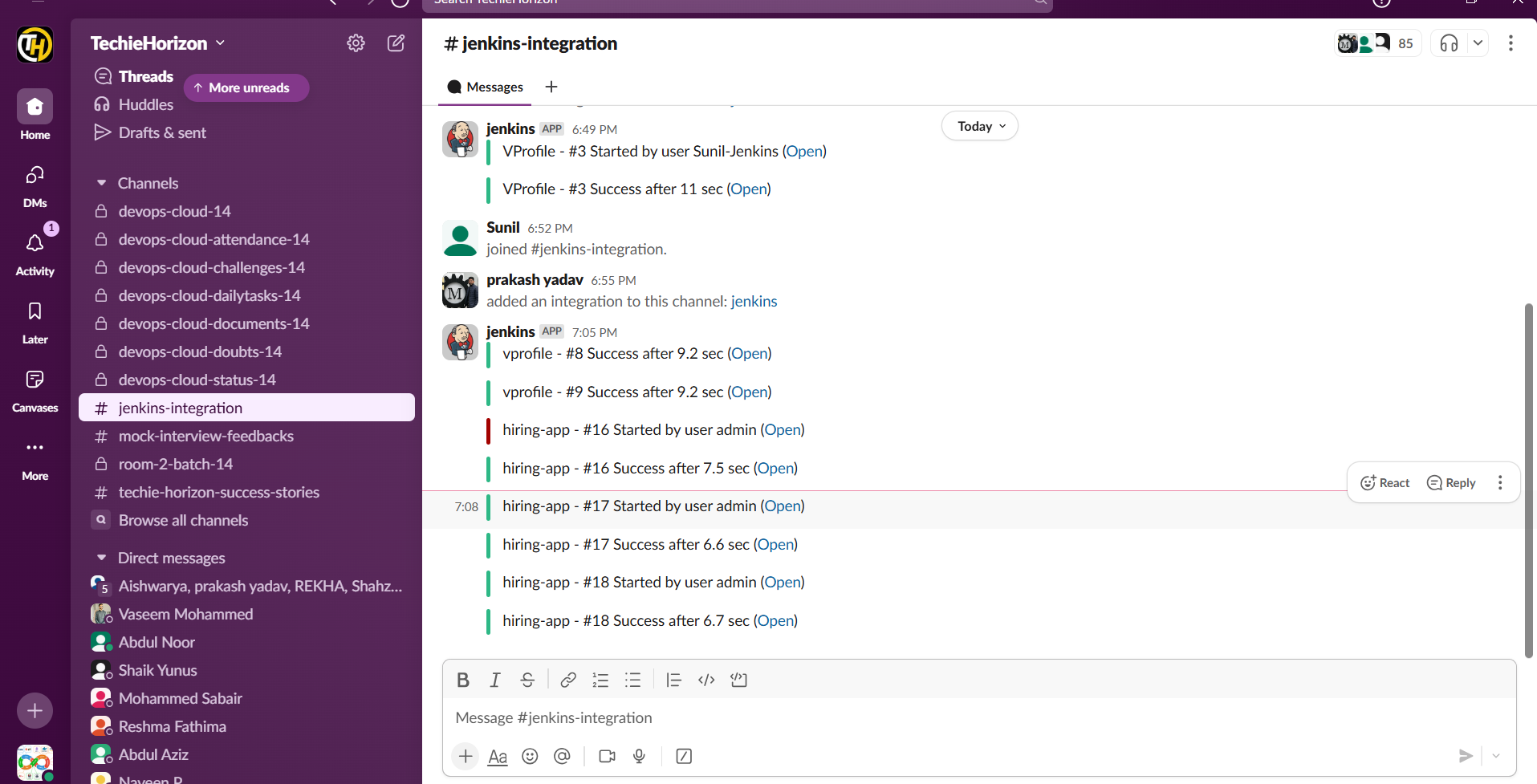
**stage2: Sonarqube Integration to check the quality of code**

**stage3: Slack Integration to send the alerts to slack.**

**URL:** [**https://github.com/betawins/hiring-app.git**](https://github.com/betawins/hiring-app.git)

1. **In sonarqube EC2**
2. **yum -y install docker**
3. **systemctl start docker**
4. **docker pull sonarqube**
5. **Docker images**
6. **docker run -itd -p 9002:9000 sonarqube**
7. **Docker ps**
8. **Now go to jenkins server and change port info**
9. **cd /opt/sonar\_scanner/conf**
10. **Vi sonar-scanner.properties**

**sonar.host.url=http://184.73.14.134:9002**

1. **Manage jenkins → system change port info of sonarqube and add credentials**
2. **Go to sonarqube and create token**
3. ****
4. **Now go to jenkins system and add details**
5. ****
6. **Now try to build the hiring app**
7. ****
8. ****
9. ****