

SonarQube Code Quality and Code Security Server by Code Creator

Customer Quick Start Instructions

For AWS Marketplace launches on Amazon EC2

1. Product Overview

This AMI provides a ready to launch SonarQube Community Build server for code quality and code security analysis. It includes SonarQube, PostgreSQL, Docker Compose, a Code Creator landing page, helper commands, first boot public IP initialization, and SonarScanner starter examples.

The instance is designed for teams that want to quickly start reviewing code quality, technical debt, bugs, basic vulnerabilities, and security hotspots from source code projects and CI CD workflows.

Item	Value
Application	SonarQube Community Build 26.4.0.121862
Application image	sonarqube:26.4.0.121862-community
Database image	postgres:16-bookworm
Operating system	Ubuntu 26.04 LTS
Default OS user	ubuntu
Primary access method	Public IP address

2. Recommended AWS Launch Settings

- Minimum testing instance: t3.large
- Recommended general use instance: m7i.large or m6i.large
- Larger team or heavier analysis: m7i.xlarge or m6i.xlarge
- Recommended root volume: 60 GB gp3 or larger

3. Required Security Group Ports

Use the following inbound security group rules. For production use, restrict SSH and SonarQube access to trusted IP addresses when possible.

Type	Port	Source	Purpose
TCP	22	Your IP address recommended	SSH administration
TCP	80	0.0.0.0/0 or restricted business source	Code Creator landing page
TCP	9000	0.0.0.0/0 or restricted business source	SonarQube web interface

4. Connect to the Instance

Connect to your instance using your Amazon private key and the [ubuntu](#) user.

```
ssh -i your-key.pem ubuntu@PUBLIC_IP
```

Replace `your-key.pem` with your private key file and replace `PUBLIC_IP` with your EC2 public IPv4 address.

5. First Boot Startup Time

After launching the instance, allow approximately 5 to 10 minutes for first boot initialization. SonarQube starts PostgreSQL, initializes its database, and starts the web application.

To check the startup status, run:

```
codecreator-sonarqube-status
```

6. Find Your Access URLs

After SSH login, view the first login file or use the URL helper command.

```
cat /home/ubuntu/FIRST_LOGIN.txt  
codecreator-sonarqube-url
```

The main URLs are:

```
http://PUBLIC_IP  
http://PUBLIC_IP:9000
```

7. Log In to SonarQube

1. Open the landing page at `http://PUBLIC_IP`.
2. Click Open SonarQube or browse directly to `http://PUBLIC_IP:9000`.
3. Log in with username admin and password admin.
4. SonarQube will require you to change the admin password immediately.
5. Write down the new password and store it securely. Code Creator cannot recover a password you create inside your instance.

8. Create Your First Project

1. Log in to SonarQube as the administrator.
2. Create a new project from the SonarQube web interface.
3. Generate a project token when prompted.
4. Use the token with SonarScanner, Maven, Gradle, GitHub Actions, GitLab CI, or Jenkins.

9. SonarScanner Starter Examples

Starter examples are included on the server at:

```
/opt/codecreator-sonarqube/examples
```

The examples include:

- sonar-project.properties.example
- run-sonarscanner-basic.sh
- run-sonarscanner-docker.sh
- maven-example.sh
- gradle-example.sh
- github-actions-sonarqube.yml.example
- gitlab-ci-sonarqube.yml.example
- Jenkinsfile.example
- README.txt

For new users, the Docker based scanner example is usually the easiest starting point:

```
cat /opt/codecreator-sonarqube/examples/README.txt
```

```
cat /opt/codecreator-sonarqube/examples/run-sonarscanner-docker.sh
```

10. Useful Code Creator Commands

Command	Purpose
codecreator-sonarqube-url	Show the landing page and SonarQube URL.
codecreator-sonarqube-status	Check Docker, Nginx, containers, host tuning, and HTTP status.
codecreator-sonarqube-logs	Show recent SonarQube and PostgreSQL logs.
codecreator-sonarqube-restart	Restart the SonarQube stack and Nginx.

11. Common File Locations

```
/opt/codecreator-sonarqube
```

```
/opt/codecreator-sonarqube/compose.yml
```

```
/opt/codecreator-sonarqube/.env
```

```
/opt/codecreator-sonarqube/examples
```

```
/home/ubuntu/FIRST_LOGIN.txt
```

12. Restart and Troubleshooting

Check the full stack status:

```
codecreator-sonarqube-status
```

Restart the stack:

```
codecreator-sonarqube-restart
```

View recent logs:

```
codecreator-sonarqube-logs
```

Check Docker Compose directly:

```
cd /opt/codecreator-sonarqube
```

docker compose ps

docker compose logs --tail=100 sonarqube

13. Security and Operations Notes

- Change the default admin password immediately on first login.
- Restrict SSH access to trusted IP addresses whenever possible.
- Restrict port 9000 to trusted users or trusted networks when possible.
- Back up the Docker volumes if you use this instance for production code quality records.
- PostgreSQL is used for the application database. The embedded H2 database is not used for this AMI deployment.
- If the web interface does not load immediately, wait a few more minutes and run `codecreator-sonarqube-status` again.