SONARQUBE IN AWS EC2

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SONARQUBE

- SonarQube is an open-source platform used for continuous inspection of code quality, detecting bugs, vulnerabilities, and code smells in software projects.
- It supports various programming languages and integrates with CI/CD pipelines to ensure clean, maintainable code.
- With customizable rules and comprehensive reports, SonarQube helps teams improve code health and ensure best practices.

STEPS TO CREATE AN EC2 INSTANCE AND LOG IN USING PUTTY:

1. Launch EC2 Instance:

- o Log in to AWS Console, go to EC2, and click Launch Instance.
- o Choose Amazon Linux 2 AMI and select an instance type. Choose t2.medium.

2. Configure Instance:

o Proceed with default settings.

3. **Security Group**:

o Ensure SSH (port 22) is open in the security group for inbound rules.

4. Key Pair:

o Create or select a **key pair**. Download the .pem file to your local system.

5. Launch Instance:

o Review and click Launch. Wait for the instance to initialize.

6. Convert .pem to .ppk:

o Open **PuTTYgen**, load your .pem file, and save it as a .ppk file (for PuTTY).

7. Get Public IP:

o In the EC2 dashboard, copy your instance's **public IP** or **DNS**.

8. **Open PuTTY**:

Enter the public IP in PuTTY's Host Name field, under Connection > SSH > Auth, browse and select your .ppk file.

9. Login:

o Click **Open**, then log in as **ec2-user** when prompted in the terminal.

We will be logged in to our EC2 instance through PuTTY.

☐ Connect to EC2 Instance: SSH into your EC2 instance using **PuTTY** or terminal. **□** Update Packages: Run sudo yum update -y to update the system packages. ☐ Install Java: Install Java 11 (required for SonarQube 7.6): sudo yum install java-11-openjdk-devel -y. ☐ Download SonarQube 7.6: Run: wget https://binaries.sonarsource.com/Distribution/sonarqube/sonarqube-7.6.zip. ☐ Install Unzip: Install unzip using: sudo yum install unzip -y, Then unzip SonarQube: unzip sonarqube-7.6.zip. **■** Move SonarOube Files: Move the extracted files to /opt/: sudo mv sonarqube-7.6 /opt/sonarqube. ☐ Create a Sonar User: Create a dedicated user for SonarQube: sudo adduser sonar, then assign directory permissions: sudo chown -R sonar:sonar /opt/sonarqube. ☐ Start SonarQube: Switch to the sonar user: sudo su - sonar, navigate to SonarQube bin folder: cd/opt/sonarqube/bin/linux-x86-64/, and start SonarOube: ./sonar.sh start. ☐ Configure Security Group:

In the AWS EC2 dashboard, open **port 9000** in the security group to allow inbound traffic.

STEPS TO DOWNLOAD AND RUN SONARQUBE IN EC2- INSTANCE

□ Access SonarQube:
• In a browser, go to: http://your-ec2-ip:9000 to access the SonarQube dashboard.