

Uptime-Kuma is an open-source self-hosted monitoring tool that provides a sleek interface to track the uptime of websites, services, and APIs. When integrated into a CI/CD pipeline for a blog, it helps ensure continuous availability and performance monitoring. Here's a detailed explanation of how Uptime-Kuma can be utilized effectively in this context:

What is Uptime-Kuma?

- **Overview:** Uptime-Kuma is a self-hosted monitoring tool designed to track the uptime and performance of websites, services, and APIs.
- **Features:**
 - Real-time monitoring with customizable intervals.
 - Alerts via multiple channels (email, Slack, Telegram, etc.).
 - Historical data and uptime statistics.
 - Sleek, user-friendly interface.

Now, let's get started and dig deeper into each of these steps:-

1. AWS Account and Login

- If you don't have an AWS account, sign up at [AWS Sign Up](#).
- Log in to the AWS Management Console.

2. Launch an EC2 Instance

A. Navigate to EC2 Dashboard:

- Go to the [EC2 Dashboard](#).

B. Choose an Amazon Machine Image (AMI):

- Click “Launch Instance.”
- In the AMI selection screen, search for “Ubuntu 24.04”.

C. Choose an Instance Type:

- Select the t2.large instance type.
- Click “Next: Configure Instance Details.”

D. Configure Instance Details:

- Use the default settings.
- Ensure you have selected the correct VPC and subnet.
- Click “Next: Add Storage.”

E. Add Storage:

- Modify the root volume size to 30 GB.
- Click “Next: Add Tags.”

F. Add Tags:

- (Optional) Add tags for better management.
- Click “Next: Configure Security Group.”

G. Configure Security Group:

- Create a new security group.
- Set the security group name and description.
- Add a rule to allow all traffic (not recommended for production environments):
 - Type: All Traffic
 - Protocol: All
 - Port Range: All
 - Port Range : 22, 80, 443, 8080, 9000, 3001, 5000
 - Source: 0.0.0.0/0 (for IPv4) and ::/0 (for IPv6)
- **Warning:** Opening all ports is insecure and should only be done for learning purposes in a controlled environment.
- Click “Review and Launch.”

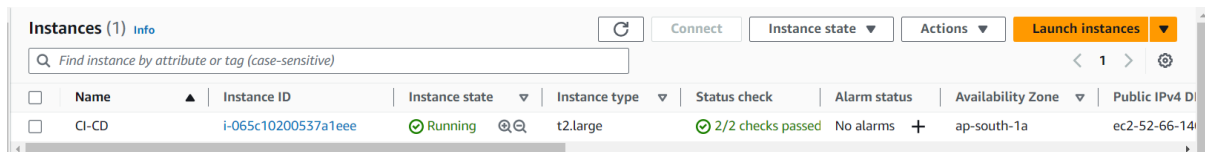
H. Review Instance Launch:

- Review all configurations.

- Click “Launch.”

I. Select/Create a Key Pair:

- Select “Create a new key pair.”
- Name the key pair.
- Download the key pair file (.pem) and store it securely.
- Click “Launch Instances.”



Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 D
CI-CD	i-065c10200537a1eee	Running	t2.large	2/2 checks passed	No alarms	ap-south-1a	ec2-52-66-14

Install Jenkins, Docker and Trivy

To Install Jenkins

Connect to your console, and enter these commands to Install Jenkins

```
vi jenkins.sh
```

```
#!/bin/bash
```

```
sudo apt update -y
```

```
wget -O - https://packages.adoptium.net/artifactory/api/gpg/key/public | sudo tee
/etc/apt/keyrings/adoptium.asc
```

```
echo "deb [signed-by=/etc/apt/keyrings/adoptium.asc]
https://packages.adoptium.net/artifactory/deb $(awk -F= '/^VERSION_CODENAME/{print$2}'
/etc/os-release) main" | sudo tee /etc/apt/sources.list.d/adoptium.list
```

```
sudo apt update -y
```

```
sudo apt install temurin-17-jdk -y
```

```
/usr/bin/java --version
```

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee
/usr/share/keyrings/jenkins-keyring.asc && /dev/null
```

```
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable
binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list && /dev/null
```

```
sudo apt-get update -y
```

```
sudo apt-get install jenkins -y
```

```
sudo systemctl start jenkins
```

```
sudo systemctl status jenkins
```

```
sudo chmod 777 jenkins.sh
```

```
sudo su #move into root and run
```

```
./jenkins.sh # this will install jenkins
```

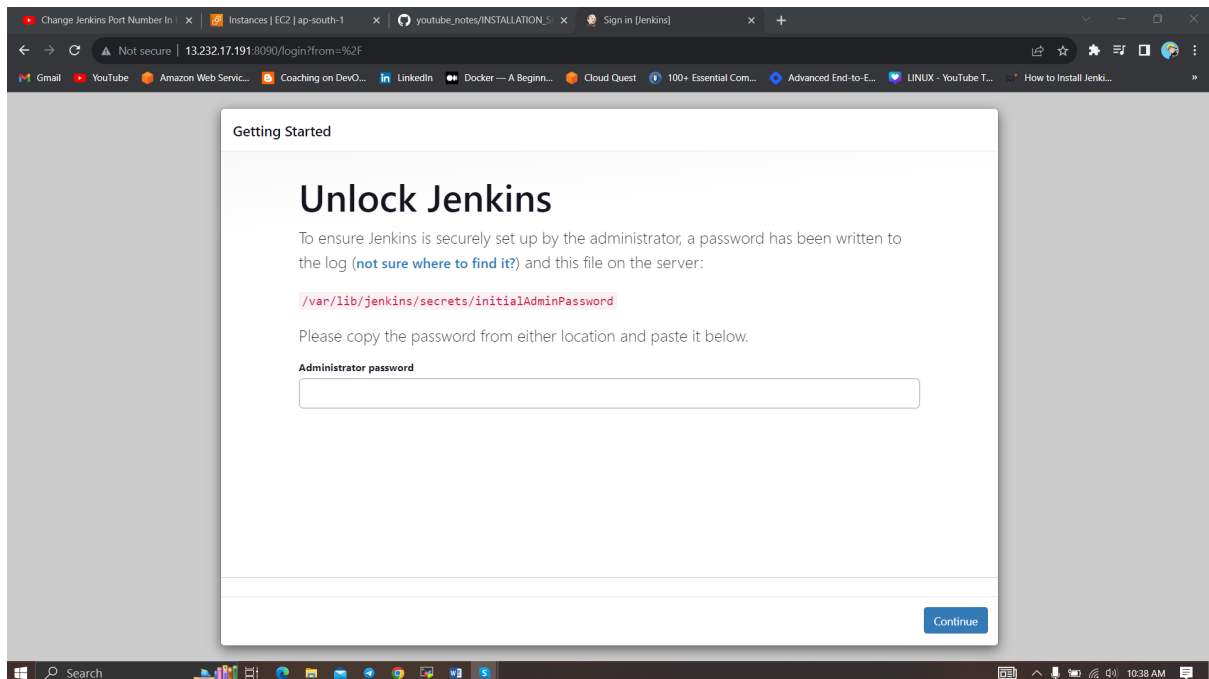
Once Jenkins is installed, you will need to go to your AWS EC2 Security Group and open Inbound Port 8080, since Jenkins works on Port 8080.

Now, grab your Public IP Address

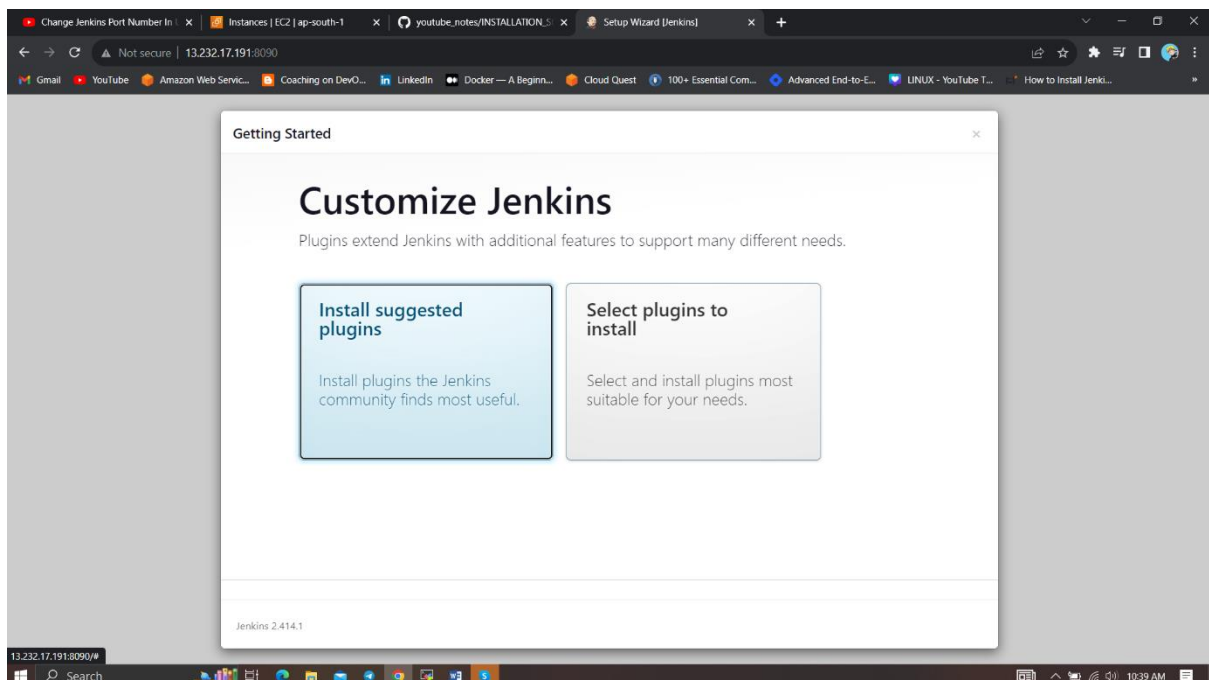
EC2 Public IP Address:8080

In Jenkins server

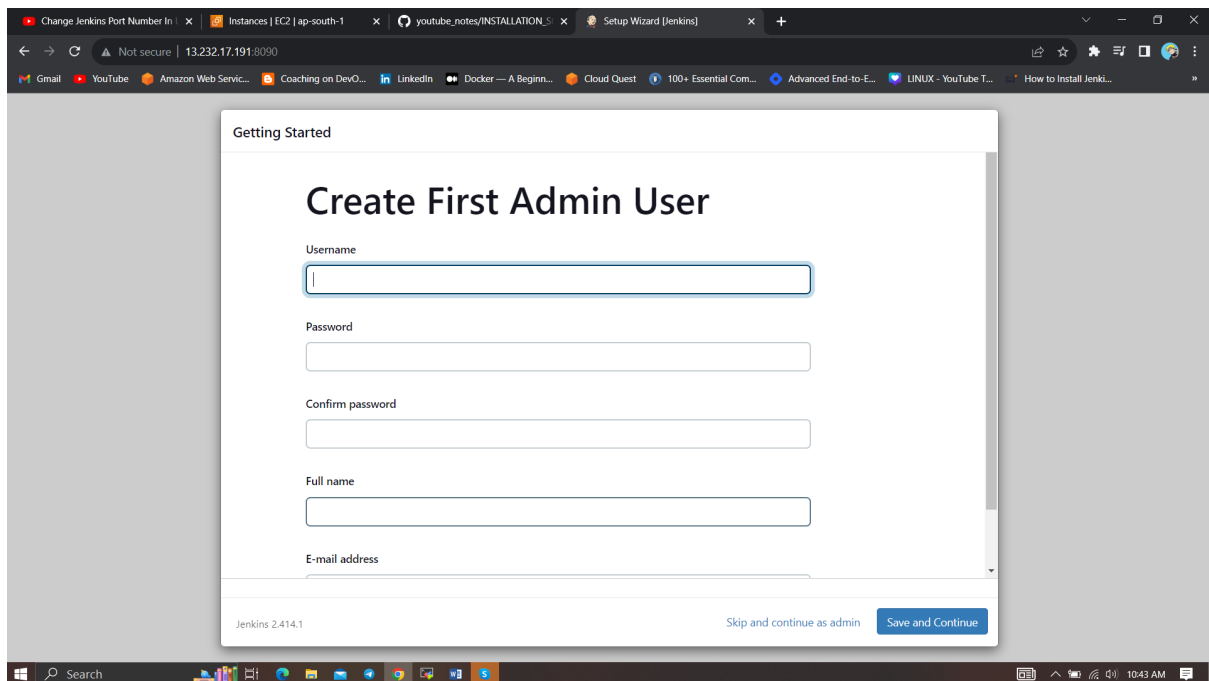
```
sudo cat /var/lib/jenkins/secrets/initialAdminPassword
```



Unlock Jenkins using an administrative password and install the suggested plugins.

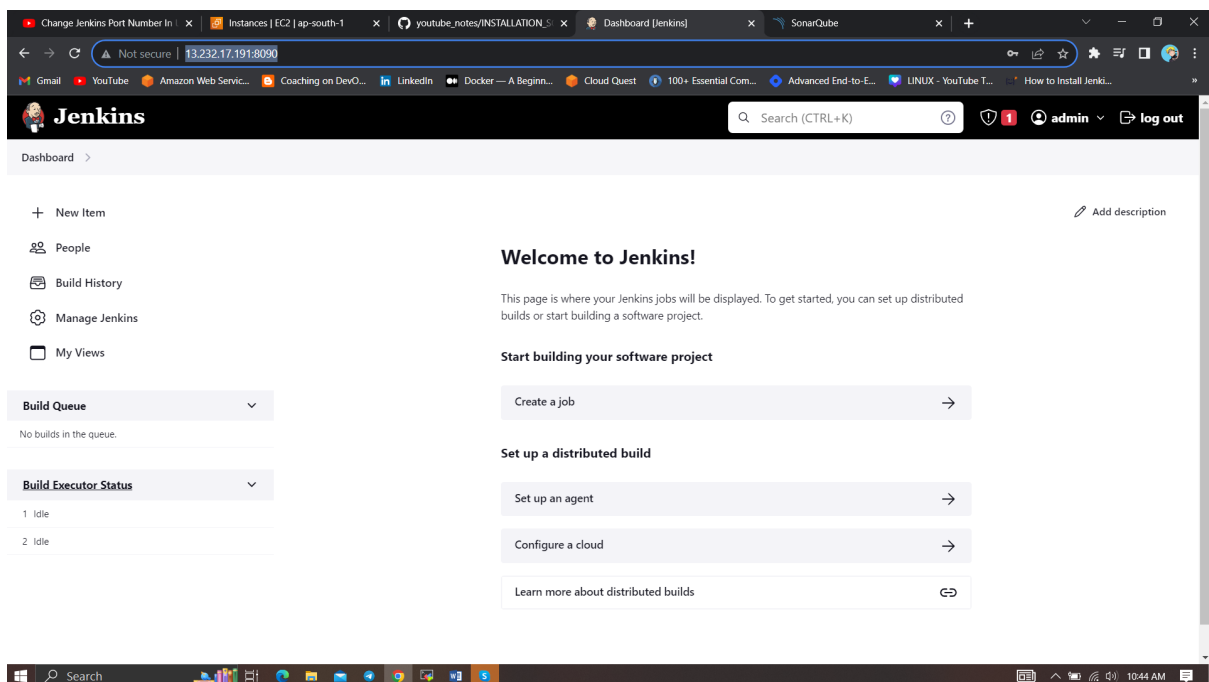


Jenkins will now get installed and install all the libraries.



Create a user click on save and continue.

Jenkins Getting Started Screen.



Install Docker

Add Docker's official GPG key:

sudo apt-get update

sudo apt-get install ca-certificates curl

sudo install -m 0755 -d /etc/apt/keyrings

```
sudo curl -fsSL https://download.docker.com/linux/ubuntu/gpg -o /etc/apt/keyrings/docker.asc
```

```
sudo chmod a+r /etc/apt/keyrings/docker.asc
```

```
# Add the repository to Apt sources:
```

```
echo \
```

```
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.asc]  
https://download.docker.com/linux/ubuntu \
```

```
$(. /etc/os-release && echo "$VERSION_CODENAME") stable" | \
```

```
sudo tee /etc/apt/sources.list.d/docker.list &> /dev/null
```

```
sudo apt-get update
```

```
sudo apt-get install docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-  
plugin -y
```

```
sudo usermod -aG docker ubuntu
```

```
newgrp docker
```

```
sudo chmod 777 /var/run/docker.sock
```

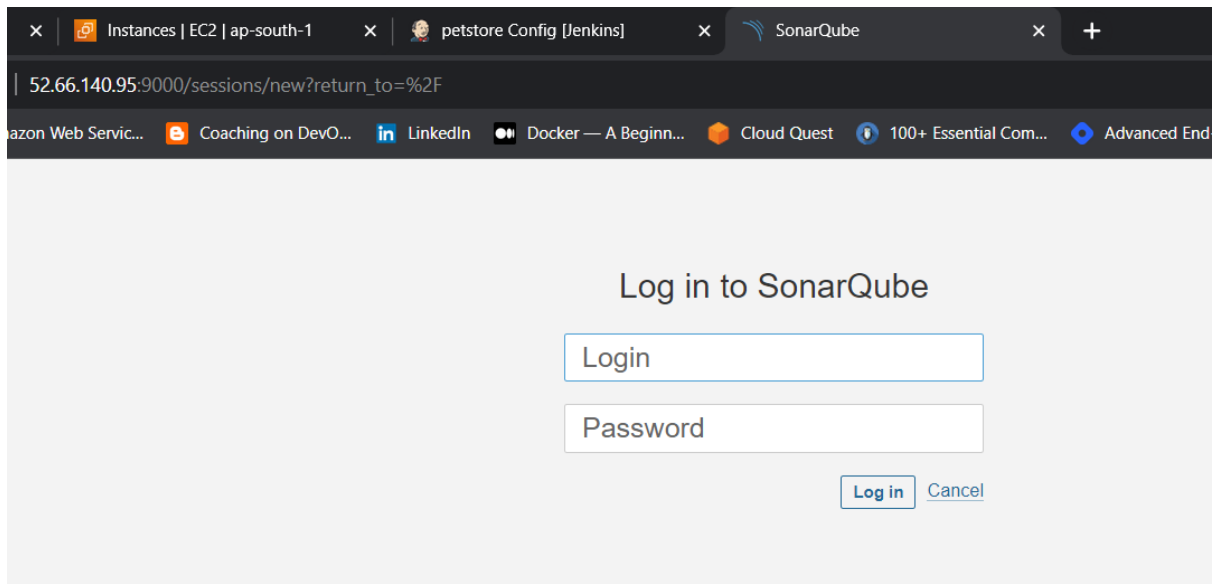
After the docker installation, we create a sonarqube container (Remember to add 9000 ports in the security group).

```
sudo chmod 777 /var/run/docker.sock
```

```
docker run -d --name sonar -p 9000:9000 sonarqube:lts-community
```

```
ubuntu@ip-172-31-42-253:~$ sudo chmod 777 /var/run/docker.sock  
ubuntu@ip-172-31-42-253:~$ docker run -d --name sonar -p 9000:9000 sonarqube:lts-community  
Unable to find image 'sonarqube:lts-community' locally  
lts-community: Pulling from library/sonarqube  
44ba2882f8eb: Pull complete  
2cabec57fa36: Pull complete  
c20481384b9a: Pull complete  
bf7b17ee74f8: Pull complete  
38617faac714: Pull complete  
706f20f58f5e: Pull complete  
65a29568c257: Pull complete  
Digest: sha256:1a118f8ab9e0d6c3d4ea8b4455a5a6560654511c88a6816f1603f764d5dcc77c  
Status: Downloaded newer image for sonarqube:lts-community  
4b60c96bf9ad3d62289436af71752fdb04993092d0ca3665e2f2e32301b50139  
ubuntu@ip-172-31-42-253:~$ docker ps  
CONTAINER ID   IMAGE               COMMAND                  CREATED        STATUS        PORTS                               NAMES  
4b60c96bf9ad   sonarqube:lts-community  "/opt/sonarqube/dock..."  9 seconds ago  Up 5 seconds  0.0.0.0:9000->9000/tcp, :::9000->9000/tcp  sonar  
ubuntu@ip-172-31-42-253:~$
```

Now our Sonarqube is up and running



A browser window showing the SonarQube login page. The address bar displays '52.66.140.95:9000/sessions/new?return_to=%2F'. The page has a light gray background with the title 'Log in to SonarQube' centered. Below the title are two input fields: 'Login' and 'Password'. At the bottom right, there are two buttons: 'Log in' and 'Cancel'.

Log in to SonarQube

Login

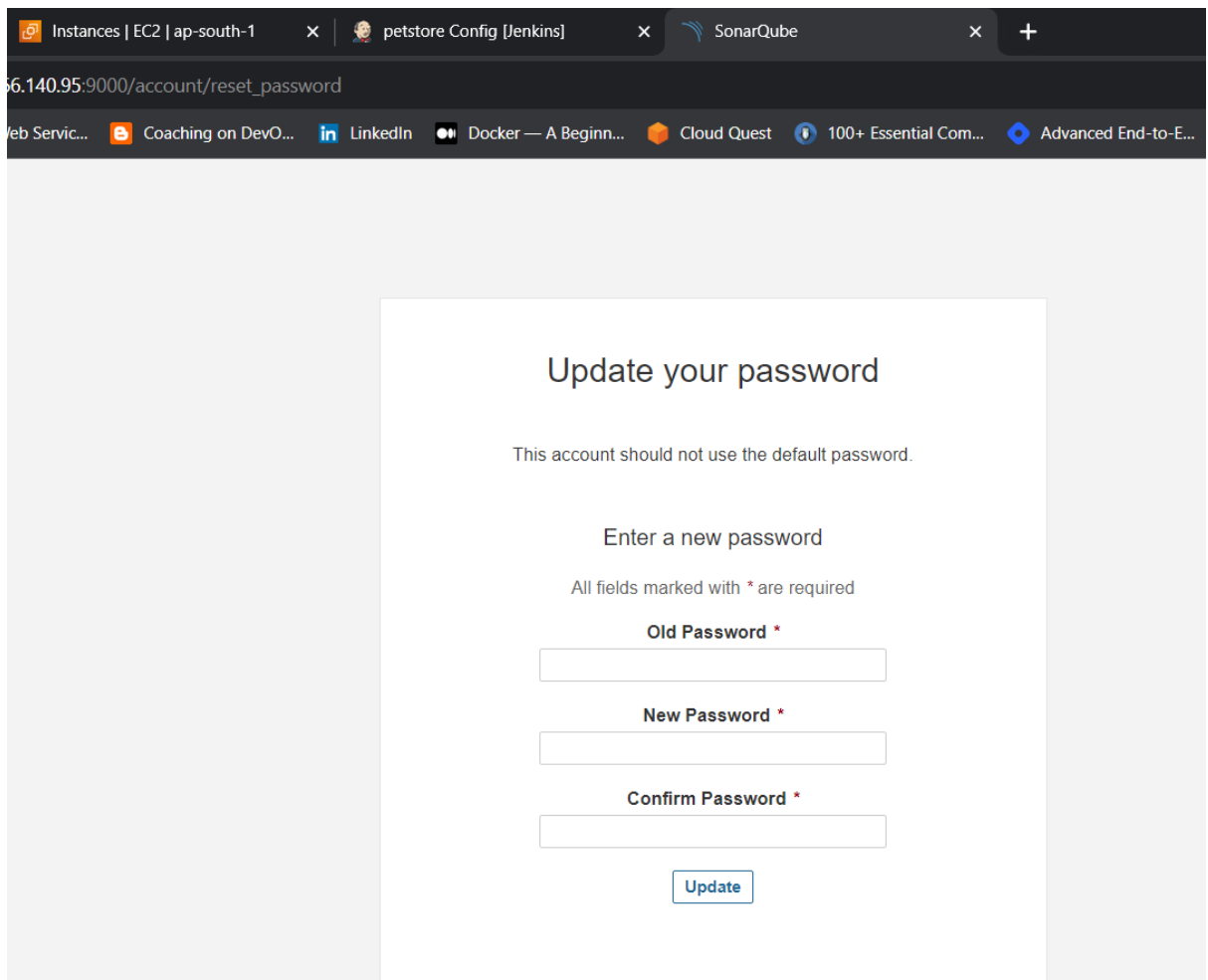
Password

Log in Cancel

Enter username and password, click on login and change password

username admin

password admin



A browser window showing the SonarQube password reset page. The address bar displays '52.66.140.95:9000/account/reset_password'. The page has a light gray background with a white box in the center containing the title 'Update your password'. Below the title is a message: 'This account should not use the default password.' followed by the instruction 'Enter a new password'. A note states 'All fields marked with * are required'. There are three input fields labeled 'Old Password *', 'New Password *', and 'Confirm Password *'. At the bottom of the box is an 'Update' button.

Update your password

This account should not use the default password.

Enter a new password

All fields marked with * are required

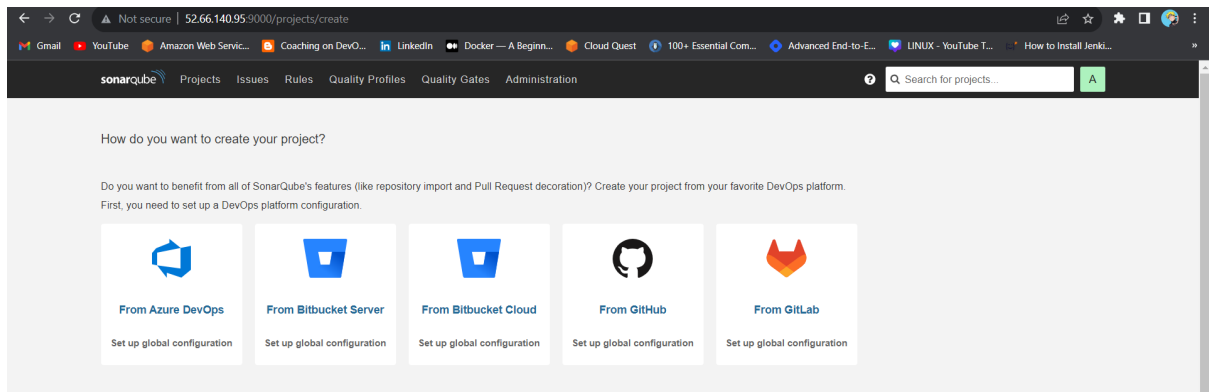
Old Password *

New Password *

Confirm Password *

Update

Update New password, This is Sonar Dashboard.



Install Trivy

vi script.sh

sudo apt-get install wget apt-transport-https gnupg lsb-release -y

wget -qO - https://aquasecurity.github.io/trivy-repo/deb/public.key | gpg --dearmor | sudo tee /usr/share/keyrings/trivy.gpg > /dev/null

echo "deb [signed-by=/usr/share/keyrings/trivy.gpg] https://aquasecurity.github.io/trivy-repo/deb \$(lsb_release -sc) main" | sudo tee -a /etc/apt/sources.list.d/trivy.list

sudo apt-get update

sudo apt-get install trivy -y

Give permissions and run script

sudo chmod 777 script.sh

./script.sh

Next, we will log in to Jenkins and start to configure our Pipeline in Jenkins

Install Plugins like JDK, Sonarqube Scanner, NodeJs, OWASP Dependency Check

Install Plugin

Goto Manage Jenkins → Plugins → Available Plugins →

Install below plugins

Blue ocean

1 → Eclipse Temurin Installer

2 → SonarQube Scanner

3 → NodeJs Plugin

4 → Docker

5 → Docker commons

6 → Docker pipeline

7 → Docker API

8 → Docker Build step

9 → Owasp Dependency Check

Install	Name ↓	Released
✓	Eclipse Temurin installer 1.5 Provides an installer for the JDK tool that downloads the JDK from https://adoptium.net	1 yr 8 mo ago
✓	SonarQube Scanner 2.17.2 External Site/Tool Integrations Build Reports This plugin allows an easy integration of SonarQube , the open source platform for Continuous Inspection of code quality.	4 mo 7 days ago
✓	NodeJS 1.6.1 npm NodeJS Plugin executes NodeJS script as a build step.	10 mo ago
✓	OWASP Dependency-Check 5.5.0 Security DevOps Build Tools Build Reports This plug-in can independently execute a Dependency-Check analysis and visualize results. Dependency-Check is a utility that identifies project dependencies and checks if there are any known, publicly disclosed, vulnerabilities.	4 mo 1 day ago
✓	Docker 1.6.2 Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	22 days ago
✓	Docker Commons 439.va_3cb_0a_6a_fb_29 Library plugins (for use by other plugins) docker Provides the common shared functionality for various Docker-related plugins.	11 mo ago
✓	Docker Pipeline 580.vc0c340688b_54 pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	1 mo 5 days ago
✓	Docker API 3.3.6-90.vc7c5c7535ddd Library plugins (for use by other plugins) docker This plugin provides docker-java API for other plugins. This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.	23 days ago
✓	docker-build-step 2.12 Build Tools docker This plugin allows to add various docker commands to your job as build steps. Warning: This plugin version may not be safe to use. Please review the following security notices: <ul style="list-style-type: none">• CSRF vulnerability and missing permission check	29 days ago

Configure Java and Nodejs in Global Tool Configuration

Goto Manage Jenkins → Tools → Install JDK(17) and NodeJs(18)→ Click on Apply and Save

JDK installations

Add JDK

≡ JDK

Name

jdk17

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Install automatically ?

≡ Install from adoptium.net ?

Version ?

jdk-17.0.11+9 ▼

Add Installer ▼

Add NodeJS

NodeJS

Name

node18 **MR CLOUD BOOK**

☒ Install automatically ?

Install from nodejs.org

Version

NodeJS 18.0.0

For the underlying architecture, if available, force the installation of the 32bit package. Otherwise the build will fail

☐ Force 32bit architecture

Global npm packages to install

Specify list of packages to install globally -- see npm install -g. Note that you can fix the packages version by using the syntax `packageName@version`

Global npm packages refresh hours

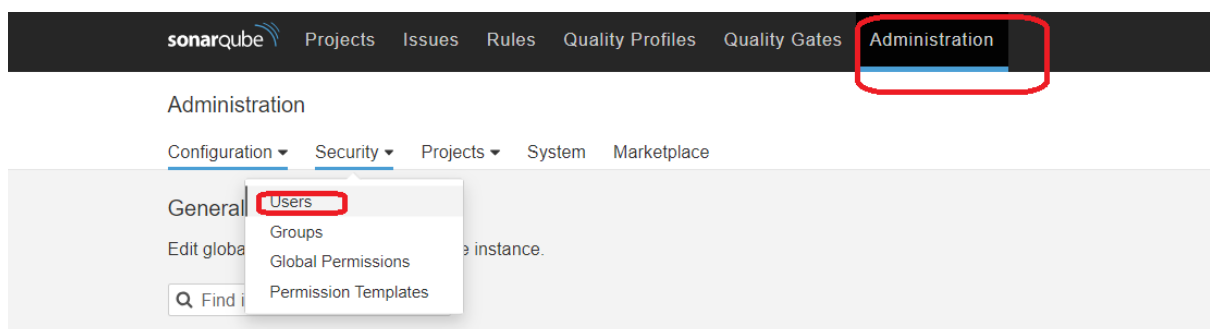
Duration, in hours, before 2 npm cache update. Note that 0 will always update npm cache

72

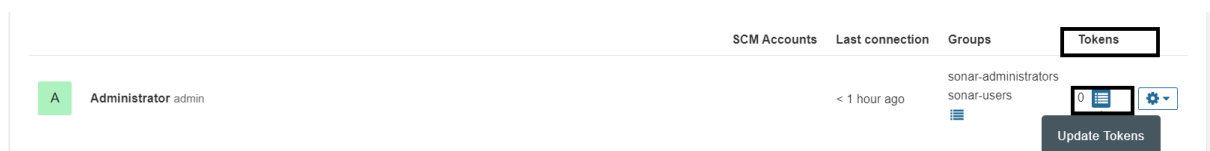
Add Installer ▾

Grab the Public IP Address of your EC2 Instance, Sonarqube works on Port 9000, so <Public IP>:9000.
Goto your Sonarqube Server.

Click on Administration → Security → Users → Click on Tokens and Update Token → Give it a name → and click on Generate Token



click on update Token



Create a token with a name and generate

Tokens of Administrator

Generate Tokens

Name	Expires in
<input type="text" value="Enter Token Name"/>	<input type="text" value="30 days"/> <input type="button" value="Generate"/>

New token "Jenkins" has been created. Make sure you copy it now, you won't be able to see it again!

Name	Type	Project	Last use	Created	Expiration	
Jenkins	User		Never	September 8, 2023	October 8, 2023	<input type="button" value="Revoke"/>

copy Token

Go to Jenkins Dashboard → Manage Jenkins → Credentials → Add Secret Text. It should look like this

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

New credentials

Kind

Scope

Secret

ID

Description

You will this page once you click on create

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description	
Sonar-token	sonar	Secret text	sonar	

Now, go to Dashboard → Manage Jenkins → System and Add like the below image.

Search for SonarQube Installation

SonarQube installations

List of SonarQube installations

Name

sonar-server

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Server URL

Default is http://localhost:9000

http://65.0.93.191:9000

Server authentication token

SonarQube authentication token. Mandatory when anonymous access is disabled.

Sonar-token

+ Add ▾

Click on Apply and Save

The Configure System option is used in Jenkins to configure different server

Global Tool Configuration is used to configure different tools that we install using Plugins

We will install a sonar scanner in the tools.

Manage Jenkins → Tools → SonarQube Scanner

SonarQube Scanner

Name

sonar-scanner

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✓

 Install automatically

?

Install from Maven Central

Version

SonarQube Scanner 6.0.0.4432

Add Installer ▾

In the Sonarqube Dashboard add a quality gate also

Administration→ Configuration→Webhooks

← → ↻ ⚠ Not secure | 13.232.2.206:9000/admin/users

Gmail

YouTube

Amazon Web Servic...

Coaching on DevO...

LinkedIn

Docker — A Beginn...

Cloud Quest

100+ Essential Com...

Advanced End-to-E...

LINUX - YouTube T...

How to Install Jenk...

sonarqube

Projects

Issues

Rules

Quality Profiles

Quality Gates

Administration

Search for projects...

A

Administration

Configuration ▾

Security ▾

Projects ▾

System

Marketplace

General Settings

Encryption

Webhooks

individual users.

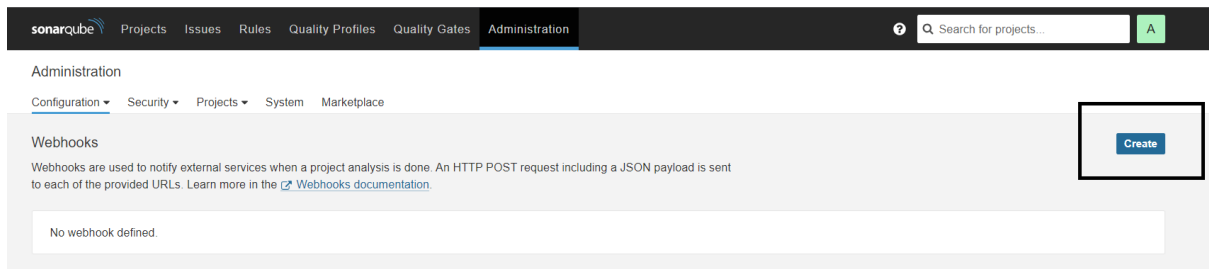
Create User

Search by login or name...

	SCM Accounts	Last connection	Groups	Tokens
<div>A</div> Administrator admin		< 1 hour ago	sonar-administrators sonar-users	1 <div></div> <div></div>

1 of 1 shown

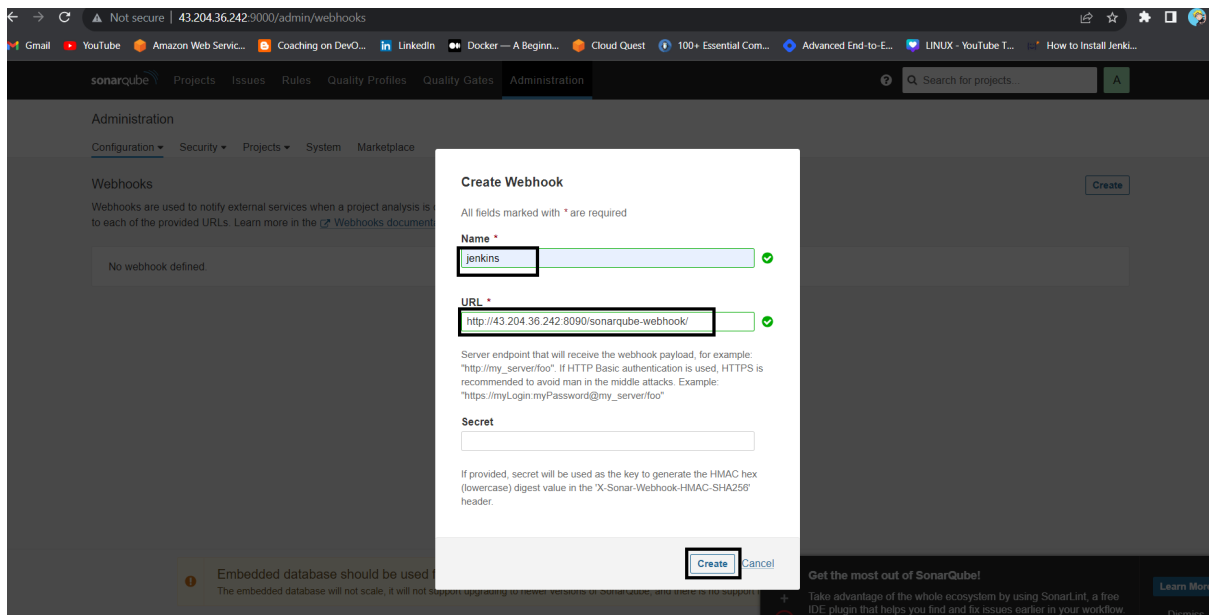
Click on Create



Add details

#in url section of quality gate

`http://jenkins-public-ip:8080/sonarqube-webhook/`



First, we configured the Plugin and next, we had to configure the Tool

Goto Dashboard → Manage Jenkins → Tools → Dependency-Check & Docker

Add Dependency-Check



Dependency-Check



Name

DP-Check



Install automatically ?



Install from github.com

Version

dependency-check 9.2.0

Add Installer ▾

Add Dependency-Check

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Docker installations

Add Docker



Docker



Name

docker



Install automatically ?



Download from docker.com

Docker version ?

latest

Add Installer ▾

Go to manage Jenkins → Credentials

Add DockerHub Username and Password under Global Credentials

Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >

Kind
Username with password

Scope ?
Global (Jenkins, nodes, items, all child items, etc)

Username ?
sevenajay

☐ Treat username as secret ?

Password ?
.....

ID ?
docker

Description ?
docker

Create

Create Job for Uptime-kuma

Add this stage to Pipeline Script

```
pipeline{
  agent any

  tools{
    jdk 'jdk17'
    nodejs 'node18'
  }

  environment {
    SCANNER_HOME=tool 'sonar-scanner'
  }

  stages {
    stage('Checkout from Git'){
      steps{
        git branch: 'main', url: 'https://github.com/Aj7Ay/uptime.git'
      }
    }
  }

  stage('Install Dependencies') {
    steps {
```

```

        sh "npm install"
    }
}
stage("Sonarqube Analysis "){
    steps{
        withSonarQubeEnv('sonar-server') {
            sh "' $SCANNER_HOME/bin/sonar-scanner -Dsonar.projectName=uptime \
            -Dsonar.projectKey=uptime '"
        }
    }
}
stage("quality gate"){
    steps {
        script {
            waitForQualityGate abortPipeline: false, credentialsId: 'Sonar-token'
        }
    }
}
stage('OWASP FS SCAN') {
    steps {
        dependencyCheck additionalArguments: '--scan ./ --disableYarnAudit --disableNodeAudit',
odcInstallation: 'DP-Check'
        dependencyCheckPublisher pattern: '**/dependency-check-report.xml'
    }
}
stage('TRIVY FS SCAN') {
    steps {
        sh "trivy fs . & trivyfs.json"
    }
}
stage("Docker Build & Push"){

```

```

steps{
  script{
    withDockerRegistry(credentialsId: 'docker', toolName: 'docker'){
      sh "docker build -t uptime ."
      sh "docker tag uptime sevenajay/uptime:latest "
      sh "docker push sevenajay/uptime:latest "
    }
  }
}
stage("TRIVY"){
  steps{
    sh "trivy image sevenajay/uptime:latest & trivy.json"
  }
}
stage ("Remove container") {
  steps{
    sh "docker stop uptime | true"
    sh "docker rm uptime | true"
  }
}
stage('Deploy to container'){
  steps{
    sh 'docker run -d --name chatbot -v /var/run/docker.sock:/var/run/docker.sock -p 3001:3001
sevenajay/uptime:latest'
  }
}
}

```

Git checkout

- ✔ Checkout SCM
- ✔ Tool Install
- ✔ Git Pull
- ✔ Install Dependencies
- ✔ Sonarqube Analysis
- ✔ Sonar-quality-gate
- OWASP FS SCAN

Stage 'Checkout SCM'

Started 25 min ago
Queued 0 ms
Took 1.1 sec
Success

[View as plain text](#)

Mr cloud book

✔ Check out from version control

1 sec

```
0 Selected Git installation does not exist. Using Default
1 The recommended git tool is: NONE
2 No credentials specified
3 Cloning the remote Git repository
4 Cloning repository https://github.com/Aj7Ay/Uptime-kuma.git
5 > git init /var/lib/jenkins/workspace/Uptime # timeout=10
6 Fetching upstream changes from https://github.com/Aj7Ay/Uptime-kuma.git
7 > git --version # timeout=10
8 > git --version # 'git version 2.43.0'
9 > git fetch --tags --force --progress -- https://github.com/Aj7Ay/Uptime-kuma.git +refs/heads/*:refs/remotes/origin/* # timeout=10
10 > git config remote.origin.url https://github.com/Aj7Ay/Uptime-kuma.git # timeout=10
11 > git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
12 Avoid second fetch
13 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10
14 Checking out Revision b018fe2f54d9c7f3392be58dfc96946099e392 (refs/remotes/origin/main)
15 > git config core.sparsecheckout # timeout=10
16 > git checkout -f b018fe2f54d9c7f3392be58dfc96946099e392 # timeout=10
17 Commit message: "Merge pull request #1 from Aj7Ay/feat/uptime-jenkins"
18 First time build. Skipping changelog.
```

Tool install

- Checkout SCM
- ✔ Tool Install
- ✔ Git Pull
- ✔ Install Dependencies
- ✔ Sonarqube Analysis
- ✔ Sonar-quality-gate
- OWASP FS SCAN

Stage 'Tool Install'

Started 25 min ago
Queued 0 ms
Took 35 sec
Success

[View as plain text](#)

✔ jdk17	Use a tool from a predefined Tool Installation	23 sec			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	69 ms			▼
✔ node18	Use a tool from a predefined Tool Installation	11 sec			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	51 ms			▲
0					

Git pull

- ✔ Checkout SCM
- ✔ Tool Install
- ✔ Git Pull
- ✔ Install Dependencies
- ✔ Sonarqube Analysis
- ✔ Sonar-quality-gate
- OWASP FS SCAN

Stage 'Git Pull'

Started 25 min ago
Queued 0 ms
Took 1.2 sec
Success

[View as plain text](#)

✔ jdk17	Use a tool from a predefined Tool Installation	40 ms			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	38 ms			▼
✔ node18	Use a tool from a predefined Tool Installation	50 ms			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	89 ms			▼
✔ Git		0.74 sec			▲
<pre>0 Selected Git installation does not exist. Using Default 1 The recommended git tool is: NONE 2 No credentials specified 3 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Uptime/.git # timeout=10 4 Fetching changes from the remote git repository 5 > git config remote.origin.url https://github.com/Aj7Ay/Uptime-kuma.git # timeout=10 6 Fetching upstream changes from https://github.com/Aj7Ay/Uptime-kuma.git 7 > git --version # timeout=10 8 > git --version # 'git version 2.43.0' 9 > git fetch --tags --force --progress -- https://github.com/Aj7Ay/Uptime-kuma.git +refs/heads/*:refs/remotes/origin/* # timeout=10 10 > git rev-parse refs/remotes/origin/main^{commit} # timeout=10 11 Checking out Revision b018fe2f54d9c7f3392be58dfc96946099e392 (refs/remotes/origin/main) 12 > git config core.sparsecheckout # timeout=10 13 > git checkout -f b018fe2f54d9c7f3392be58dfc96946099e392 # timeout=10 14 > git branch -a -v --no-abbrev # timeout=10 15 > git checkout -b main b018fe2f54d9c7f3392be58dfc96946099e392 # timeout=10 16 Commit message: "Merge pull request #1 from Aj7Ay/feat/uptime-jenkins"</pre>					

NPM install

- ✔ Checkout SCM
- ✔ Tool Install
- ✔ Git Pull
- ✔ Install Dependencies
- ✔ Sonarqube Analysis
- ✔ Sonar-quality-gate
- OWASP FS SCAN

Stage 'Install Dependencies'

Started 25 min ago
Queued 0 ms
Took 1 min 49 sec
Success

[View as plain text](#)

✔ jdk17	Use a tool from a predefined Tool Installation	45 ms			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	47 ms			▼
✔ node18	Use a tool from a predefined Tool Installation	54 ms			▼
✔	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	82 ms			▼
✔ npm install	Shell Script	1 min 48 sec			▼

Sonarqube analysis

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis**
- Sonar-quality-gate
- OWASP FS SCAN

Stage 'Sonarqube Analysis'

Started 23 min ago

Queued 0 ms

Took 2 min 31 sec

Success

[View as plain text](#)

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- jdk17**
Use a tool from a predefined Tool Installation 43 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 32 ms
- node18**
Use a tool from a predefined Tool Installation 44 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 58 ms
- SSCANNER_HOME/bin/sonar-scanner -Dsonar.projectName=Chatbot -Dsonar.projectKey=Chatbot**
Shell Script 2 min 28 sec

Chatbot **Passed** Last analysis: 2 hours ago

Bugs 41 E	Vulnerabilities 0 A	Hotspots Reviewed 0.0% E	Code Smells 277 A	Coverage 0.0% E	Duplications 1.5% A	Lines 31k M JavaScript...
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Quality Gate

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis
- Sonar-quality-gate**
- OWASP FS SCAN

Stage 'Sonar-quality-gate'

Started 21 min ago

Queued 0 ms

Took 7.6 sec

Success

[View as plain text](#)

- jdk17**
Use a tool from a predefined Tool Installation 55 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 62 ms
- node18**
Use a tool from a predefined Tool Installation 0.11 sec
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 81 ms
- Wait for SonarQube analysis to be completed and return quality gate status** 6.9 sec
 - Checking status of SonarQube task 'AZB5rEnIUMbsm6jdmKke' on server 'sonar-server'
 - SonarQube task 'AZB5rEnIUMbsm6jdmKke' status is 'IN_PROGRESS'
 - SonarQube task 'AZB5rEnIUMbsm6jdmKke' status is 'SUCCESS'
 - SonarQube task 'AZB5rEnIUMbsm6jdmKke' completed. Quality gate is 'OK'

Owasp

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis
- Sonar-quality-gate
- OWASP FS SCAN**
- TRIVY FS SCAN

Stage 'OWASP FS SCAN'

Started 48 min ago

Queued 0 ms

Took 48 min

Success

[View as plain text](#)

- jdk17**
Use a tool from a predefined Tool Installation 0.1 sec
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 91 ms
- node18**
Use a tool from a predefined Tool Installation 62 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 93 ms
- Invoke Dependency-Check** 40 min
- **jdependency-check-report.xml**
Publish Dependency-Check results 1.8 sec

Trivy FS

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis
- Sonar-quality-gate
- OWASP FS SCAN
- TRIVY FS SCAN**
- Docker Build & Push

Stage 'TRIVY FS SCAN'

Started 42 sec ago

Queued 0 ms

Took 32 sec

Success

[View as plain text](#)

- jdk17**
Use a tool from a predefined Tool Installation 42 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 48 ms
- node18**
Use a tool from a predefined Tool Installation 48 ms
- Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.** 64 ms
- trivy fs -s trivyfs.json**
Shell Script 31 sec

Docker Build and push

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis
- Sonar-quality-gate
- OWASP FS SCAN
- TRIVY FS SCAN
- Docker Build & Push**
- TRIVY

Stage 'Docker Build & Push'

Started 3 min 38 sec ago

Queued 0 ms

Took 3 min 27 sec

Success

[View as plain text](#)

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jdk17	Use a tool from a predefined Tool Installation	38 ms		
	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	26 ms		
node18	Use a tool from a predefined Tool Installation	43 ms		
	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	82 ms		
docker build -t uptime .	Shell Script	2 min 8 sec		
docker tag uptime sevenajay/uptime:latest	Shell Script	0.28 sec		
docker push sevenajay/uptime:latest	Shell Script	1 min 15 sec		

Trivy Image scan and deploy to Docker

- Checkout SCM
- Tool Install
- Git Pull
- Install Dependencies
- Sonarqube Analysis
- Sonar-quality-gate
- OWASP FS SCAN
- TRIVY FS SCAN
- Docker Build & Push
- TRIVY**
- Remove container
- Deploy to container

Stage 'TRIVY'

Started 4 min 18 sec ago

Queued 0 ms

Took 4 min 14 sec

Success

[View as plain text](#)

jdk17	Use a tool from a predefined Tool Installation	41 ms		
	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	34 ms		
node18	Use a tool from a predefined Tool Installation	63 ms		
	Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step.	57 ms		
trivy image sevenajay/uptime:latest > trivy.json	Shell Script	4 min 14 sec		

Copy the Public of Server

public-ip>:30001

Output Login Page



Uptime Kuma

Create your admin account

Language
English



Username
mrcloudbook



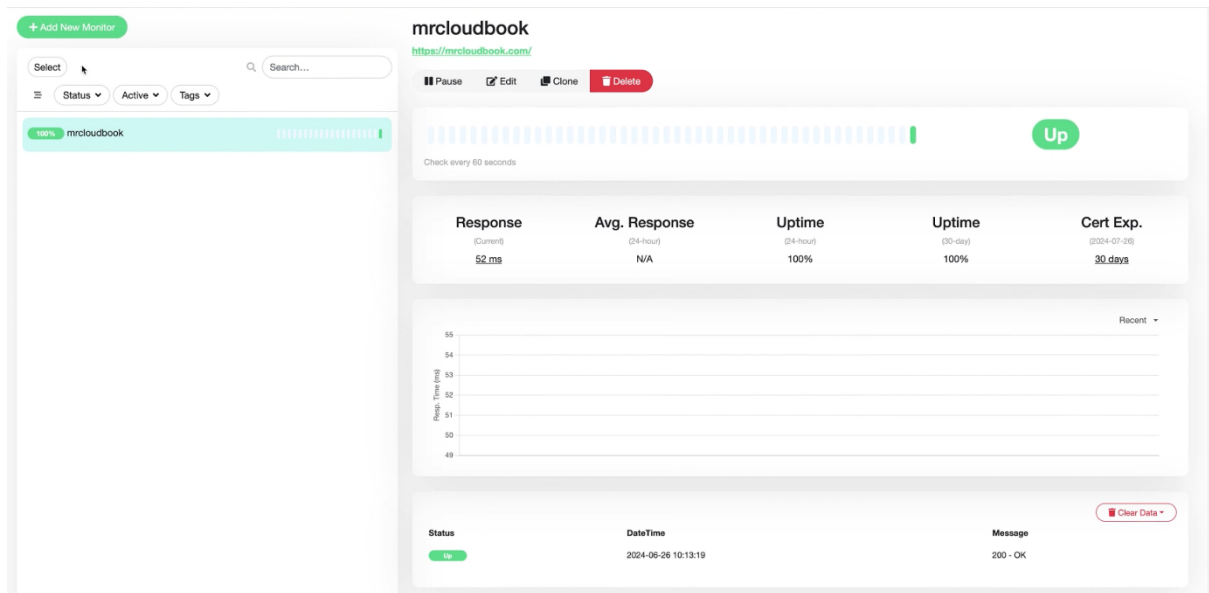
Password
.....

Repeat Password
.....

Create



Output



Twilio webhook setup

Clone the Github Repo

git clone <https://github.com/Aj7Ay/Uptime-kuma.git>

cd Uptime-kuma

cd Webhook

Create an Twilio Account From [Here](#)

Go to Console

copy Account SID & Account Auth Token and Mobile Number

Console
My first Twilio account
Trial: \$5.4518 Upgrade

Develop Monitor

- > # Phone Numbers
- > Messaging
- > Studio
- > Voice
- > Conversations

Explore Products +

Ahoy Ajay, welcome to Twilio!

Connect to 3rd-party applications

You'll need 3 things to use Twilio with most 3rd-party applications:

- ✓ Account SID and Auth token
- ✓ Twilio phone number
- ✓ Upgraded Twilio account

Upgrade your account →

[Read 3rd-party integration FAQ](#)

Account Info

Account SID
AC5a3f...

Auth Token
..... Show

⚠ Always store your token securely to protect your account. [Learn more](#)

My Twilio phone number
+1985...

You are in a trial account and can only send messages and make calls to [verified phone numbers](#). [Learn more about your trial account](#)

Update the [app.py](#)

from flask import Flask

from twilio.rest import Client

```
app = Flask(__name__)
```

```
@app.route('/trigger-calls', methods=['GET', 'POST'])
```

```
def trigger_call():
```

```
    account_sid = '<acc-sid>'
```

```
    auth_token = '<acc-auth>'
```

```
    client = Client(account_sid, auth_token)
```

```

# List of numbers to call
numbers_to_call = ['<country-code-number>', '<country-code-number>']

call_sid = [] # To store Call SIDs

for number in numbers_to_call:
    call = client.calls.create(
        twim='<Response><Say>"change Alert message
here"</Say></Response>',
        to=number,
        from_='<twilio-number>'
    )
    call_sids.append(call.sid)

# Joining all the Call SIDs to return in response
call_sids_str = ', '.join(call_sids)
return f"Call initiated with SIDs: {call_sids_str}", 200

```

```

if __name__ == '__main__':
    app.run(host='0.0.0.0', port=5000)

```

Now install These on Server

```
sudo apt install python3-pip
```

```
sudo apt install python3.12-venv
```

```
python3 -m venv venv
```

```
source venv/bin/activate
```

Now install Requirements

```
pip install -r requirements.txt
```

Create the Docker webhook

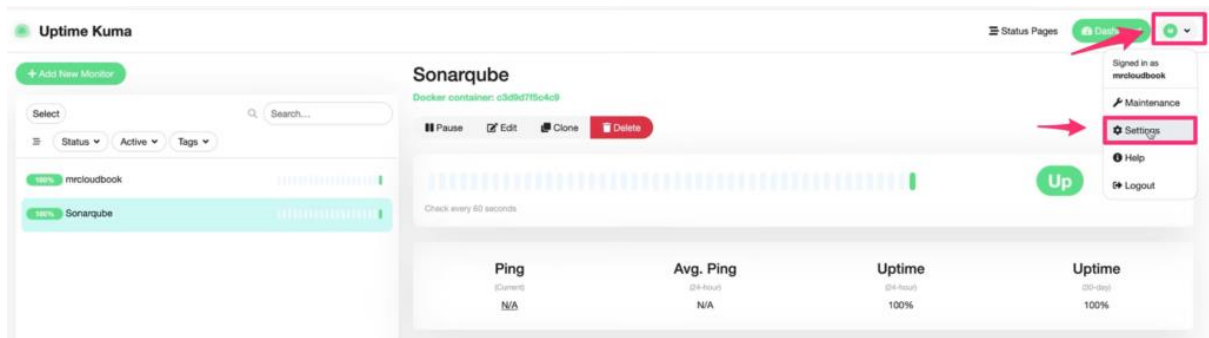
```
cd Uptime-kuma/webhook
```

```
docker build -t webhook .
```

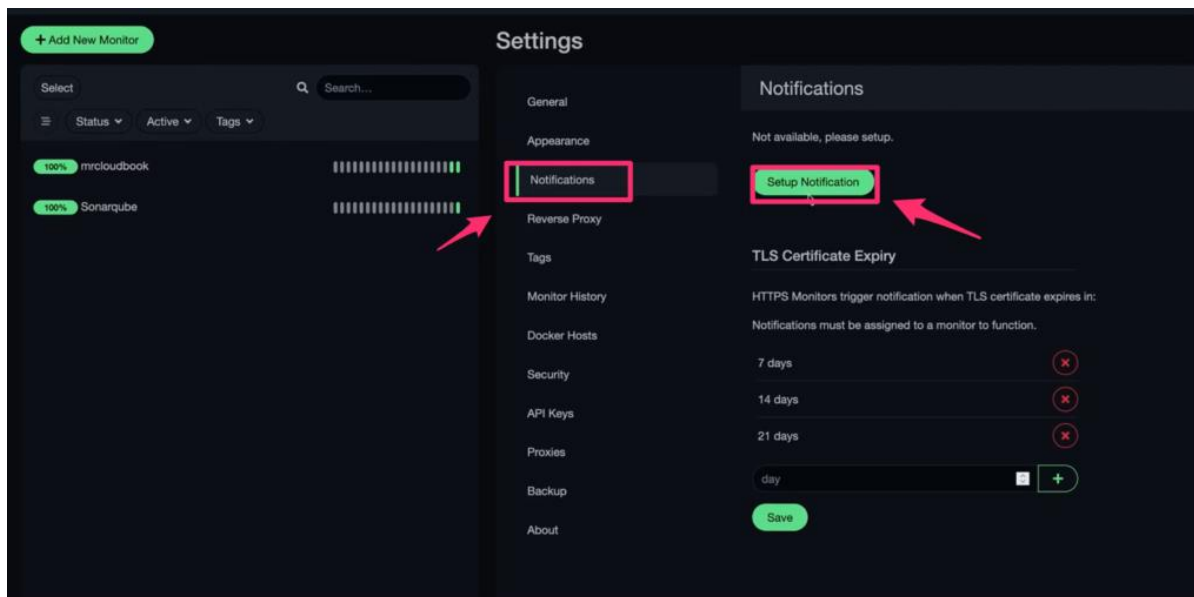
```
docker run -d --name webhook -p 5000:5000 webhook:latest
```

webhook runs on 5000 port

Go to Uptime Kuma select Profile -> Settings



Select Notification -> setup Notification



Select Notification Type as webhook

Give Friendly name -> URL of webhook -> save

Setup Notification

Notification Type

Webhook

Friendly Name

Twilio

Post URL

http://65.0.93.191:5000//trigger-call

Request Body

Preset - application/json

application/json is good for any modern HTTP servers such as Express.js

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Additional Headers

Sets additional headers sent with the webhook. Each header should be defined as a JSON key/value.

Default enabled

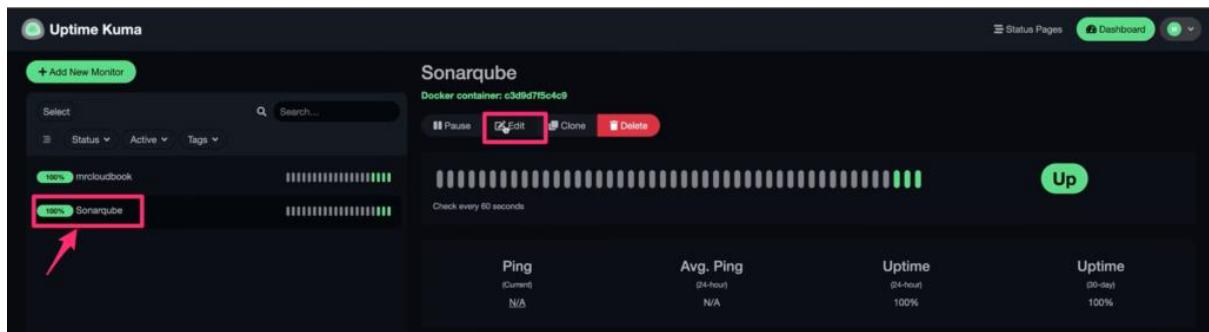
This notification will be enabled by default for new monitors. You can still disable the notification separately for each monitor.

Apply on all existing monitors

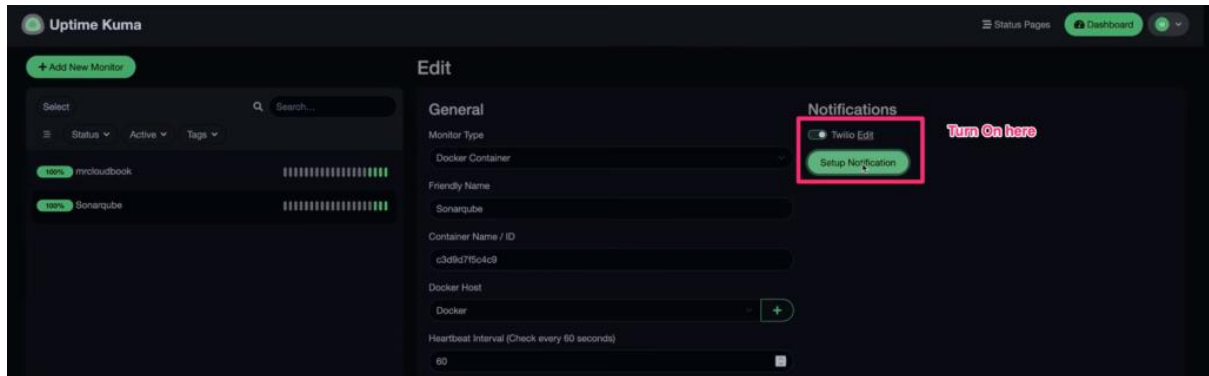
Test

Save

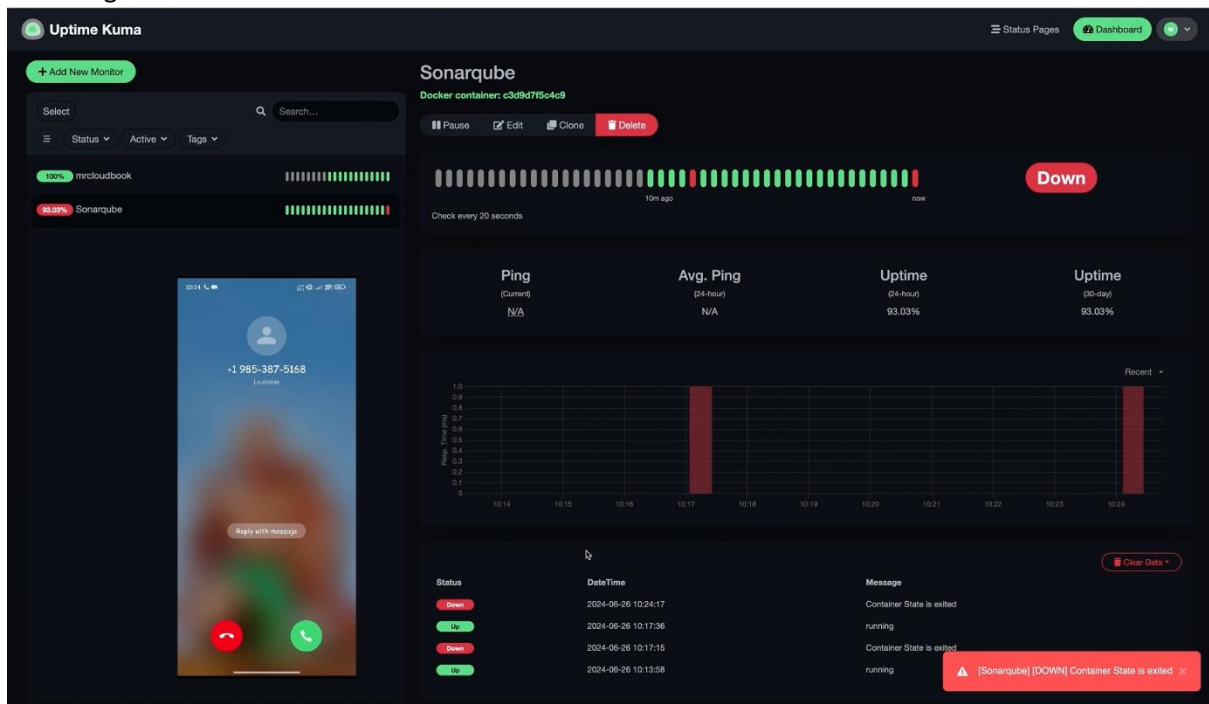
Select One service from Dashboard -> Edit



Turn on Notification to get call



You will get call when server or service Down



Remove Server at end.