

Starbucks DevSecOps Pipeline Project

1. Project Description

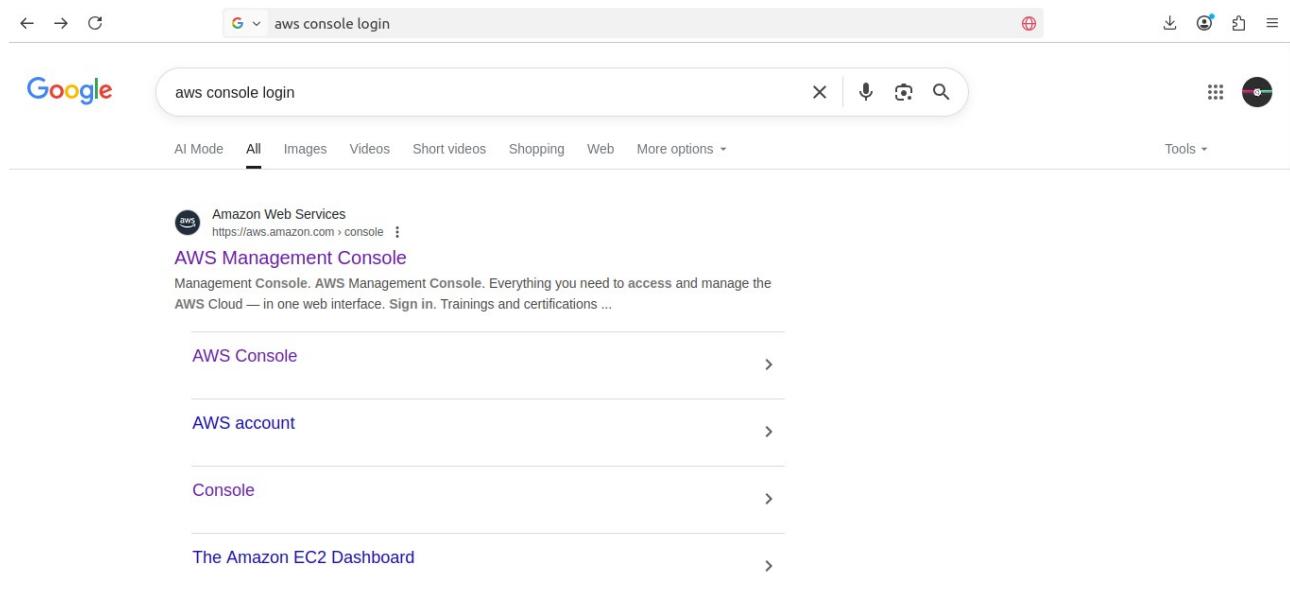
A full CI/CD DevSecOps pipeline to build, scan, and deploy a Starbucks clone application...

2. Tools Used

Tools Used

- **Jenkins** – CI/CD Automation
- **Docker** – Containerization
- **SonarQube** – Static Code Analysis
- **Trivy** – Vulnerability Scanning
- **OWASP Dependency Check** – Security Scanning
- **Docker Scout** – CVE & Recommendation Analysis
- **AWS EC2** – Deployment Server

3. Workflow



The screenshot shows the AWS Console Home page. On the left, there's a sidebar titled "Recently visited" with links to EC2, CloudWatch, Aurora and RDS, IAM, S3, VPC, EC2 Global View, and Elastic Container Service. Below this is a "View all services" link. On the right, there's a section titled "Applications (0)" with a "Create application" button. It shows the region as "US East (Ohio)" and a "Select Region" dropdown set to "us-east-2 (Current Region)". A search bar "Find applications" is also present. The main content area below says "No applications" and "Get started by creating an application." with a "Create application" button.

The screenshot shows the AWS EC2 home page. On the left, there's a sidebar with "EC2" selected, showing "Instances", "Images", and "Feedback". The main content area has a "Compute" header and a large section titled "Amazon Elastic Compute Cloud (EC2)". It says "Create, manage, and monitor virtual servers in the cloud." Below this is a paragraph about the service's breadth and depth, mentioning over 600 instance types. To the right, there's a callout box for "Launch a virtual server" with "Launch instance" and "View dashboard" buttons. At the bottom, there's a "Benefits and features" section and a "Get started" callout with a "Take our walkthroughs to help you" link.

The screenshot shows the AWS EC2 console at the URL us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances. The user is on the 'Launch an instance' page under the 'Instances' section. The 'Quick Start' tab is active. In the 'Name and tags' section, the name 'My Web Server' is entered. The 'Software Image (AMI)' dropdown is set to '1'. The 'Virtual server type (instance type)' is 't2.micro'. The 'Launch instance' button is highlighted in orange.

This screenshot is identical to the one above, except the 'Recent' tab is now active instead of 'Quick Start'. The rest of the configuration and interface elements remain the same.

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Quick Start

Recent AMIs: Amazon Linux, macOS, Ubuntu, Windows, Red Hat, SUSE Linux, Debian.

Browse more AMIs Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 22.04 LTS (HVM), SSD Volume Type. ami-0b05d988257befbbe (64-bit (x86)) / ami-0c96d7d095577fbde (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Ubuntu Server 22.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Canonical, Ubuntu, 22.04, amd64 jammy image

Architecture: 64-bit (x86) | **AMI ID**: ami-0b05d988257befbbe | **Publish Date**: 2025-05-16 | **Username**: ubuntu | **Verified provider**

Summary

Number of Instances: 1

Software Image (AMI)
Canonical, Ubuntu, 22.04, amd6... [read more](#)
ami-0b05d988257befbbe

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of

Launch Instance | **Preview code**

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

Instance type Info | Get advice

Instance type: t2.large
Family: t2 2 vCPU 8 GiB Memory Current generation: true On-Demand Linux base pricing: 0.0928 USD per Hour
On-Demand Ubuntu Pro base pricing: 0.0963 USD per Hour On-Demand Windows base pricing: 0.1208 USD per Hour
On-Demand SUSE base pricing: 0.1928 USD per Hour On-Demand RHEL base pricing: 0.1216 USD per Hour

All generations | Compare instance types

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required: master | Create new key pair

Network settings Info

Network: Info
vpc-0638e475bf1ac915a
Subnet: Info
No preference (Default subnet in any availability zone)

Summary

Number of Instances: 1

Software Image (AMI)
Canonical, Ubuntu, 22.04, amd6... [read more](#)
ami-0b05d988257befbbe

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Launch Instance | **Preview code**

us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

EC2 > Instances > Launch an Instance

Network settings

- Network: vpc-0638e475bf1ac915a
- Subnet: Anywhere (Default subnet in any availability zone)
- Auto-assign public IP: Enable
- Firewall (security groups):
 - Create security group (selected)
 - Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

 - Allow SSH traffic from Anywhere (0.0.0.0/0)
 - Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
 - Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

Configure storage

Advanced

CloudShell Feedback

Summary

Number of Instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04, amd6... [read more](#)

Virtual server type (instance type): t2.large

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GB of

Cancel Launch instance Preview code

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us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#LaunchInstances:

EC2 > Instances > Launch an Instance

Network settings

Anywhere (0.0.0.0/0)

Configure storage

Advanced

CloudShell Feedback

Summary

Number of Instances: 1

Software Image (AMI): Canonical, Ubuntu, 22.04, amd6... [read more](#)

Virtual server type (instance type): t2.large

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 30 GiB

Free tier: In your first year of opening an AWS account, you get 750 hours per month of t2.micro instance usage (or t3.micro where t2.micro isn't available) when used with free tier AMIs, 750 hours per month of public IPv4 address usage, 30 GiB of EBS storage, 2 million I/Os, 1 GiB of

Cancel Launch instance Preview code

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The screenshot shows the AWS EC2 Instances page with a blue header bar indicating "Launching Instance" and "Launch Initiation". Below the header, there's a progress bar at 80% completion. A message in the center says "Please wait while we launch your instance. Do not close your browser while this is loading." At the bottom, there are links for "CloudShell" and "Feedback".

Success
Successfully initiated launch of instance (I-0965088ad43db6e44)

Next Steps

- Create billing and free tier usage alerts**
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)
- Connect to your instance**
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)
- Connect an RDS database**
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)
- Create EBS snapshot policy**
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)
- Manage detailed monitoring**
Enable or disable detailed monitoring for the instance. If you enable detailed monitoring, the Amazon EC2
- Create Load Balancer**
Create a application, network gateway or classic Elastic Load Balancer.
- Create AWS budget**
AWS Budgets allows you to create budgets, forecast spend, and take action on your costs and usage from a
- Manage CloudWatch alarms**
Create or update Amazon CloudWatch alarms for the instance.

CloudShell Feedback © 2025, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Screenshot of the AWS EC2 Instances page showing a single running instance named "Starbucks-web...".

Instances (1/1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IPv4
Starbucks-web...	i-0965088ad43db6e44	Running	t2.large	Initializing	View alarms +	us-east-2a	ec2-3-12-146-50.us-eas...	3.12.146.1

i-0965088ad43db6e44 (Starbucks-website)

Security

Security details

IAM Role	Owner ID	Launch time
-	789501569955	Tue Jul 22 2025 11:51:04 GMT+0530 (India Standard Time)
Security groups		
sg-0525f2ffb04db60ef (launch-wizard-1)		

Screenshot of the AWS EC2 Security Groups page showing the "Edit Inbound rules" section.

Edit inbound rules

Inbound rules control the incoming traffic that's allowed to reach the instance.

Inbound rules

Type	Protocol	Port range	Source	Description - optional
HTTPS	TCP	443	Custom	Allow secure web access
HTTP	TCP	80	Custom	Allow public web access
SSH	TCP	22	Custom	Remote login (limit access)-ssh
Custom TCP	TCP	8080	Anywhere	Jenkins
Custom TCP	TCP	9000	Anywhere	sonarqube
Custom TCP	TCP	3000	Anywhere	grafana
Custom TCP	TCP	6443	Anywhere	k8s

Add rule

The screenshot shows the AWS EC2 Security Groups console. A success message at the top states: "Inbound security group rules successfully modified on security group (sg-0525f2ff04db60ef | launch-wizard-1) Details". Below this, there are three summary cards: "Owner" (78950156995), "Inbound rules count" (7 Permission entries), and "Outbound rules count" (1 Permission entry). The main table displays 7 inbound rules, each with columns for Name, Security group rule ID, IP version, Type, Protocol, Port range, and Source. The rules include various ports like 6443, 443, 8080, 3000, 80, 22, and 9000, and sources like 0.0.0.0/0.

Name	Security group rule ID	IP version	Type	Protocol	Port range	Source
sgr-0d8459fde6291d33d	IPv4	Custom TCP	TCP	6443	0.0.0.0/0	
sgr-07b344280b35473f5	IPv4	HTTPS	TCP	443	0.0.0.0/0	
sgr-02ba4076388f44f86	IPv4	Custom TCP	TCP	8080	0.0.0.0/0	
sgr-0ccf74d5ac50a3d	IPv4	Custom TCP	TCP	3000	0.0.0.0/0	
sgr-093feed0dd29bbef1	IPv4	HTTP	TCP	80	0.0.0.0/0	
sgr-02e10fb0baf69c491	IPv4	SSH	TCP	22	0.0.0.0/0	
sgr-09f3da55c10dd490	IPv4	Custom TCP	TCP	9000	0.0.0.0/0	

The screenshot shows the AWS CLI User Guide. The top navigation bar includes links for "Get started", "Service guides", "Developer tools", "AI resources", and "Return to the Console". The main content area has a sidebar titled "Topics" with sections for "AWS CLI install and update instructions", "Troubleshooting AWS CLI install and uninstall errors", and "Next steps". The main content area is titled "AWS CLI install and update instructions". It contains a heading "Install and update requirements" and a bulleted list of system requirements:

- You must be able to extract or "unzip" the downloaded package. If your operating system doesn't have the built-in `unzip` command, use an equivalent.
- The AWS CLI uses `glibc`, `groff`, and `less`. These are included by default in most major distributions of Linux.
- We support the AWS CLI on 64-bit versions of recent distributions of CentOS, Fedora, Ubuntu, Amazon Linux 1, Amazon Linux 2, Amazon Linux 2023, and Linux ARM.

docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html

English Preferences Contact Us Feedback

Get started Service guides Developer tools AI resources Search in this guide Return to the Console

To update your current installation of AWS CLI, download a new installer each time you update to overwrite previous versions. Follow these steps from the command line to install the AWS CLI on Linux.

The following are quick installation steps in a single copy and paste group that provide a basic installation. For guided instructions, see the steps that follow.

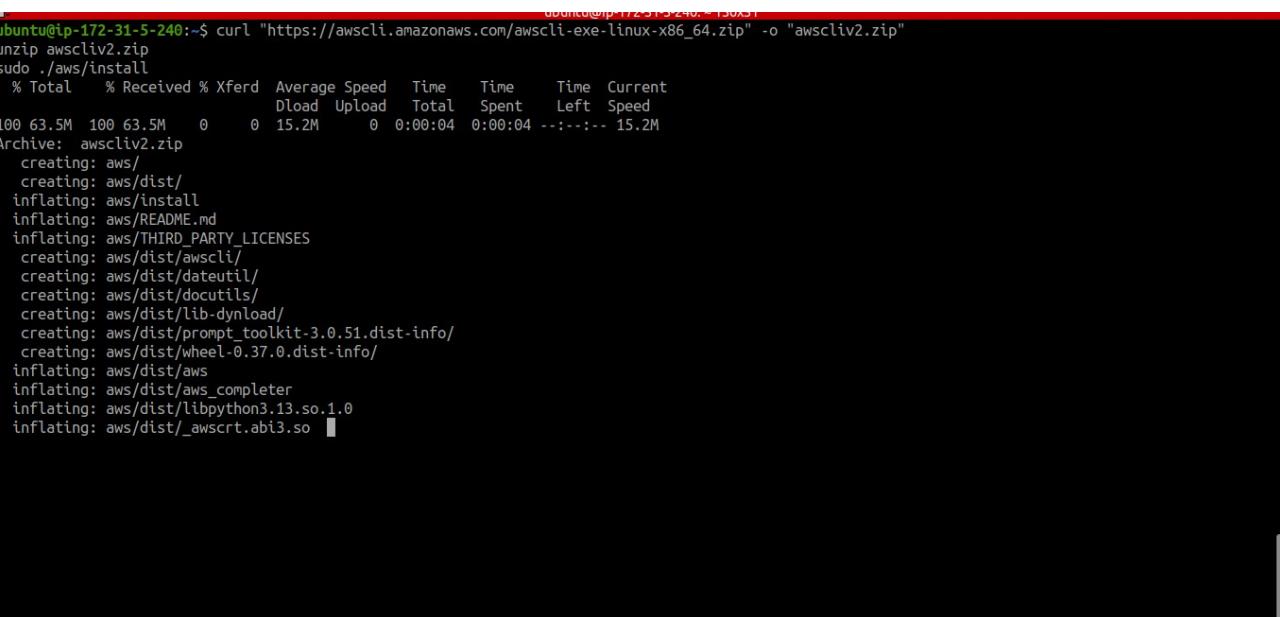
Note

(Optional) The following command block downloads and installs the AWS CLI without first verifying the integrity of your download. To verify the integrity of your download, use the below step by step instructions.

To install the AWS CLI, run the following commands.

```
$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
unzip awscliv2.zip
sudo ./aws/install
```

To update your current installation of the AWS CLI, add your existing symlink and installer information to construct the `install` command using the `--bin-dir`, `--install-dir`, and `--update` parameters. The following command block uses an example symlink of `/usr/local/bin` and example installer location of `/usr/local/aws-cli` to install the AWS CLI locally for the current user.



```
ubuntu@ip-172-31-5-240:~$ which aws
/usr/local/bin/aws
ubuntu@ip-172-31-5-240:~$ aws --version
aws-cli/2.27.56 Python/3.13.4 Linux/6.8.0-1029-aws exe/x86_64.ubuntu.22
ubuntu@ip-172-31-5-240:~$
```

The screenshot shows a web browser displaying the Jenkins documentation at www.jenkins.io/doc/book/installing/linux/#debianubuntu. The page is titled "Installing Jenkins" and includes sections for "Linux", "Prerequisites", and hardware requirements. A sidebar on the right contains a "Table of Contents" with links to various Jenkins installation guides.

User Documentation Home

User Handbook

- User Handbook Overview
- **Installing Jenkins**
 - Docker
 - Kubernetes
 - **Linux**
 - macOS
 - Windows
 - Other Systems
 - WAR file
 - Other Servlet Containers
 - Offline Installations
 - Initial Settings
- Platform Information
- Using Jenkins
- Pipeline
- Blue Ocean
- Managing Jenkins
- Securing Jenkins

Kubernetes

Linux

Jenkins installers are available for several Linux distributions.

- Debian/Ubuntu
- Fedora
- Red Hat Enterprise Linux and derivatives

Prerequisites

Minimum hardware requirements:

- 256 MB of RAM
- 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a Docker container)

Recommended hardware configuration for a small team:

- 4 GB+ of RAM

Table of Contents

- Prerequisites
- Debian/Ubuntu
 - Long Term Support release
 - Weekly release
 - Installation of Java
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 - Weekly release
 - Start Jenkins
- Red Hat Enterprise Linux and derivatives
 - Long Term Support release
 - Weekly release
 - Start Jenkins
- Post-installation setup wizard
- Unlocking Jenkins
- Customizing Jenkins with plugins
- Creating the first administrator user

← → ⌂ www.jenkins.io/doc/book/installing/linux/#debianubuntu

Jenkins cd -

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> User Documentation Home

User Handbook

- User Handbook Overview
- **Installing Jenkins**
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- Using Jenkins
- Pipeline
- Blue Ocean
- Managing Jenkins
- Securing Jenkins
- System Administration

You need to choose either the Jenkins Long Term Support release or the Jenkins weekly release.

Long Term Support release

A **LTS (Long-Term Support) release** is chosen every 12 weeks from the stream of regular releases as the stable release for that time period. It can be installed from the [debian-stable apt repository](#).

```
sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo "deb [signed-by=/etc/apt/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
sudo apt-get install jenkins
```

Weekly release

A new release is produced weekly to deliver bug fixes and features to users and plugin developers. It can be installed from the [debian apt repository](#).

```
sudo wget -O /etc/apt/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian/jenkins.io-2023.key
```

ubuntu@ip-172-31-5-240:~\$ #!/bin/bash
sudo apt update -y
wget -O - https://packages.adoptium.net/artifactory/api/gpg/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 systemctl status jenkins
Get:1 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy InRelease [128 kB]
Get:2 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates InRelease [127 kB]
Get:3 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports InRelease [127 kB]
Get:4 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 Packages [14.1 MB]
Get:5 http://security.ubuntu.com/ubuntu jammy-security InRelease [129 kB]
Get:6 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe Translation-en [5652 kB]
Get:7 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/universe amd64 c-n-f Metadata [286 kB]
Get:8 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 Packages [217 kB]
Get:9 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse Translation-en [112 kB]
Get:10 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy/multiverse amd64 c-n-f Metadata [8372 B]
Get:11 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main amd64 Packages [2761 kB]
Get:12 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/main Translation-en [438 kB]
Get:13 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted amd64 Packages [4051 kB]
Get:14 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/restricted Translation-en [732 kB]
Get:15 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 Packages [1224 kB]
Get:16 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe Translation-en [302 kB]
Get:17 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/universe amd64 c-n-f Metadata [28.7 kB]
Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 Packages [59.5 kB]
Get:19 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse Translation-en [14.2 kB]
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-updates/multiverse amd64 c-n-f Metadata [592 B]
Get:21 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 Packages [68.8 kB]
Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main Translation-en [11.4 kB]
Get:23 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/main amd64 c-n-f Metadata [392 B]
Get:24 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/restricted amd64 c-n-f Metadata [116 B]
Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 Packages [30.0 kB]
Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe Translation-en [16.5 kB]
Get:27 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/universe amd64 c-n-f Metadata [672 B]
Get:28 http://us-east-2.ec2.archive.ubuntu.com/ubuntu jammy-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:29 http://security.ubuntu.com/ubuntu jammy-security/main amd64 Packages [2517 kB]
33% [29 Packages 1734 kB/2517 kB 69%]
```

The screenshot shows a Google search results page for the query "docker installation on ubuntu". The results are as follows:

- Docker Docs** <https://docs.docker.com/engine/install/ubuntu>
Install Docker Engine on Ubuntu
To get started with Docker Engine on Ubuntu, make sure you meet the prerequisites, and then follow the installation steps.
Prerequisites Installation methods Install using the apt repository
- DigitalOcean** <https://www.digitalocean.com/community/tutorials/how-to-install-and-use-docker-on-ubuntu-20-04>
How To Install and Use Docker on Ubuntu
25 May 2025 — In this tutorial, you'll install and use Docker Community Edition (CE) on Ubuntu. You'll install Docker itself, work with containers and images, and push an ...
- Docker Docs** <https://docs.docker.com/desktop/setup/install/linux>
Install Docker Desktop on Ubuntu
docs.docker.com/engine/install/ubuntu/installation-methods-and-more

The screenshot shows a web browser displaying the Docker Engine installation documentation at docs.docker.com/engine/install/ubuntu/. The page has a blue header with the Docker logo and navigation links for 'Get started', 'Guides', 'Manuals' (which is the active tab), and 'Reference'. The main content area is titled 'Install using the `apt` repository'. It includes a brief introduction, a step-by-step guide, and a code block with terminal commands. To the right is a sidebar with 'Table of contents' and various links related to Docker installation.

Install using the `apt` repository

Before you install Docker Engine for the first time on a new host machine, you need to set up the Docker `apt` repository. Afterward, you can install and update Docker from the repository.

1. Set up Docker's `apt` repository.

```
# 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 \  
  $(. /etc/os-release && echo "$UBUNTU_CODENAME") stable" | \  
  sudo tee /etc/apt/sources.list.d/docker.list > /dev/null  
sudo apt-get update
```

2. Install the Docker packages.

[Edit this page](#) [Request changes](#)

Table of contents

- Prerequisites
- Firewall limitations
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- Uninstall old versions
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 - Install using the `apt` repository**
 - Upgrade Docker Engine
 - Install from a package
 - Upgrade Docker Engine
 - Install using the convenience script
 - Install pre-releases
 - Upgrade Docker after using the convenience script
 - Uninstall Docker Engine
 - Next steps

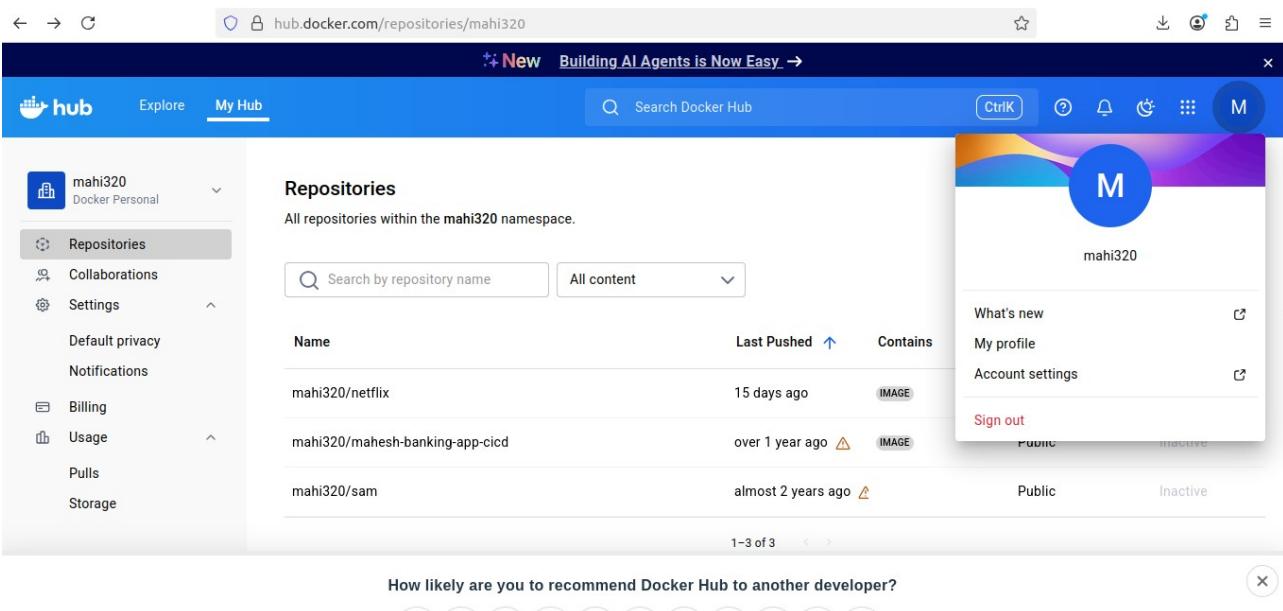
[Give feedback](#)

```
ubuntu@ip-172-31-5-240:~$ # 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 \  
  $(. /etc/os-release && echo "$UBUNTU_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  
sudo chmod 777 /var/run/docker.sock  
newgrp docker  
sudo systemctl status docker
```

Sending request to c.contentsquare.net...



The Docker login page displays the Docker logo and the title "Enter Your Password". It includes a password input field containing "mahi320", a "Forgot password?" link, and a blue "Continue" button.



The Docker Hub dashboard for user "mahi320" shows the "My Hub" tab selected. The sidebar includes links for Repositories, Collaborations, Settings, Default privacy, Notifications, Billing, Usage, Pulls, and Storage. The main area displays the "Repositories" section with three listed repositories: "mahi320/netflix" (pushed 15 days ago), "mahi320/mahesh-banking-app-ci-cd" (pushed over 1 year ago), and "mahi320/sam" (pushed almost 2 years ago). A sidebar on the right provides links for "What's new", "My profile", "Account settings", and "Sign out". A survey at the bottom asks "How likely are you to recommend Docker Hub to another developer?" with a scale from 1 to 5.

```
ubuntu@ip-172-31-5-240:~$ docker login -u mahi320
Info → A Personal Access Token (PAT) can be used instead.
To create a PAT, visit https://app.docker.com/settings

Password:
WARNING! Your credentials are stored unencrypted in '/home/ubuntu/.docker/config.json'.
Configure a credential helper to remove this warning. See
https://docs.docker.com/go/credential-store/

Login Succeeded
ubuntu@ip-172-31-5-240:~$
```

The screenshot shows a web browser displaying the Docker Docs website at docs.docker.com/scout/install/. The page title is "Install Docker Scout". The left sidebar contains navigation links for Docker Desktop, Docker Hardened Images, Docker Offload, Docker Build Cloud, Docker Hub, and Docker Scout, with "Install" selected. The main content area describes the Docker Scout CLI plugin and provides installation instructions via a command-line code block:

```
$ curl -fsSL https://raw.githubusercontent.com/docker/scout-cli/main/install.sh -o install-scout.sh
$ sh install-scout.sh
```

Below the code block is a note: "Always examine scripts downloaded from the internet before running them locally. Before installing, make yourself familiar with potential risks and limitations of the convenience script."

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with options like Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main area is titled "Instances Info" and shows a table with one row for instance "i-0965088ad43db6e44 (Starbucks-website)". The table columns include Name, Instance ID, Instance state, Instance type, Status check, Alarm status, Availability Zone, Public IPv4 DNS, and Public IP. The instance is listed as "Running". Below the table, it says "Loading instances...". At the bottom, there are tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. A tooltip for the Public IPv4 address shows the value "3.12.146.50 | open address". To the right, there are sections for Private IPv4 addresses (172.31.5.240), Public DNS (ec2-3-12-146-50.us-east-2.compute.amazonaws.com), and Public IPv4 (3.12.146.50). The footer includes links for CloudShell, Feedback, and navigation icons.

The screenshot shows a browser window with the URL <http://3.12.146.50:8080/login?from=%2F>. The page title is "Getting Started" and the main heading is "Unlock Jenkins". It says: "To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server: `/var/lib/jenkins/secrets/initialAdminPassword`". Below this, it says "Please copy the password from either location and paste it below." There is a text input field labeled "Administrator password" with a placeholder "Paste your password here". At the bottom right is a blue "Continue" button.

The screenshot shows the Jenkins dashboard at <http://3.12.146.50:8080>. The top navigation bar includes links for 'Dashboard', 'New Item', 'Build History', 'Manage Jenkins', and 'My Views'. A search bar and user information ('mahesh') are also present.

The main content area features a 'Welcome to Jenkins!' message and a 'Start building your software project' section. It includes links for 'Create a job', 'Set up a distributed build', 'Set up an agent', 'Configure a cloud', and 'Learn more about distributed builds'.

A terminal window on the right displays the following Docker commands:

```
root@ip-172-31-5-240:~# 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
ld387567261e: Pull complete
b8f81c124c7b: Pull complete
1791a8ed1ca8: Pull complete
b0d063b69b5d: Pull complete
1824101659b5: Pull complete
b025d8490d5d: Pull complete
b93dfbe5cafe: Pull complete
bf4fb700ef54: Pull complete
Digest: sha256:76896f724b93f4ece73c1c71006d19a1d057f58025f42ee18f12cb7f04904c7f
status: Downloaded newer image for sonarqube:lts-community
lab82700086d98366fe8dd12d25bb4829b824900d0f2f9be9d8a960339cb4c4
root@ip-172-31-5-240:~# docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
lab82700086d sonarqube:lts-community "/opt/sonarqube/dock..." 25 seconds ago Up 23 seconds 0.0.0.0:9000->9000/tcp, [::]:9000->9000/tcp sonar
root@ip-172-31-5-240:~#
```

```
root@ip-172-31-5-240:~# 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
ld387567261e: Pull complete
0bf81c124c7b: Pull complete
1791a8ed1ca8: Pull complete
0d063b69b5d: Pull complete
1824101659b5: Pull complete
1025d8490d5d: Pull complete
593dfbe5cafe: Pull complete
f44fb700ef54: Pull complete
Digest: sha256:76896f724b93f4ece73c1c71006d19a1d057f58025f42ee18f12cb7f04904c7f
Status: Downloaded newer image for sonarqube:lts-community
lab82700086d98366fe8da12d25bb4829b824900d0f2f9be9d8a960339cb4c4
root@ip-172-31-5-240:~# docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS               NAMES
lab82700086d98366fe8da12d25bb4829b824900d0f2f9be9d8a960339cb4c4   sonar
root@ip-172-31-5-240:~# docker images
REPOSITORY          TAG           IMAGE ID            CREATED             SIZE
sonarqube           lts-community   f278edc6e11b    2 weeks ago        604MB
root@ip-172-31-5-240:~#
```

Plugin	Status
Commons Compress API	Success
Docker API	Success
Docker	Success
Docker Commons	Success
Docker Pipeline	Success
Docker API	Success
Javadoc	Success
Dev Tools Symbols API	Success
JSch dependency	Success
Maven Integration	Installing
docker-build-step	Pending
OWASP Dependency-Check	Pending
Email Extension Template	Pending
Design Language	Pending
Blue Ocean Core JS	Pending
Pipeline Graph Analysis	Pending
Common API for Blue Ocean	Pending
REST API for Blue Ocean	Pending
Pub-Sub "light" Bus	Pending
Pipeline SCM API for Blue Ocean	Pending
HTML Publisher	Pending
Web for Blue Ocean	Pending
JWT for Blue Ocean	Pending
Favorite	Pending
REST Implementation for Blue Ocean	Pending
CloudBees Jenkins Blue Ocean	Pending

The screenshot shows the SonarQube Administration interface under the 'Users' section. A single user, 'Administrator', is listed with the login 'admin'. The user has the role 'sonar-administrators' and is connected 'sonar-users'. There is one token associated with this user. A 'Create User' button is visible at the top right of the list.

The screenshot shows the SonarQube Administration interface under the 'Webhooks' section. A modal dialog titled 'Create Webhook' is open, prompting for 'Name' (set to 'jenkins'), 'URL' (set to 'http://3.12.146.50:8080/sonarqube-webhook/'), and 'Secret' (left empty). A note about using an embedded database for evaluation purposes is displayed at the bottom of the dialog. The background shows a list of 'No webhook defined.'

Not Secure http://3.12.146.50:9000/admin/webhooks

80% ⭐

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

Search for projects... A

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

Webhooks

Create

Webhooks are used to notify external services when a project analysis is done. An HTTP POST request including a JSON payload is sent to each of the provided URLs. Learn more in the [Webhooks documentation](#).

Name	URL	Has secret?	Last delivery	Actions
jenkins	http://3.12.146.50:8080/sonarqube-webhook/	No	Never	

Embedded database should be used for evaluation purposes only
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

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Community Edition - v9.9.8 (build 100196) - [LGPL v3](#) - [Community](#) - [Documentation](#) - [Plugins](#) - [Web API](#)

The screenshot shows the Jenkins 'JDK installations' configuration page. At the top, there's a header bar with icons for back, forward, and refresh, followed by a shield icon, 'Not Secure', the URL 'http://3.12.146.50:8080/manage/configureTools/', a battery icon showing 80%, and a star icon. Below the header, the navigation path is 'Dashboard > Manage Jenkins > Tools'. The main section is titled 'JDK installations'.

Add JDK

JDK

Name: jdk17

Install automatically ?

Install from adoptium.net ?

Version: jdk-17.0.8+1

Add Installer ▾

Add JDK

Git installations

Save Apply

← → ⌂ Not Secure http://3.12.146.50:8080/manage/configureTools/ 80% ⭐ ⌂ ⌂ ⌂ ⌂

Dashboard > Manage Jenkins > Tools

Add SonarScanner for MSBuild

SonarQube Scanner installations

Add SonarQube Scanner

SonarQube Scanner

Name: sonar-scanner

Install automatically ?

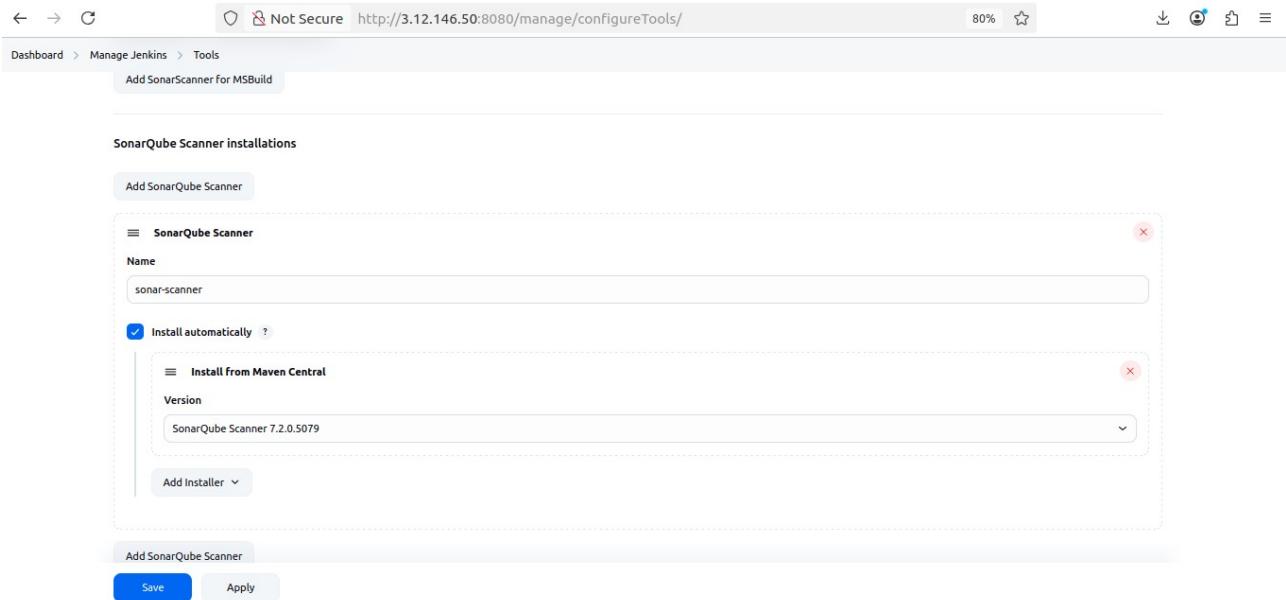
Install from Maven Central

Version: SonarQube Scanner 7.2.0.5079

Add Installer ▾

Add SonarQube Scanner

Save Apply



← → ⌂ Not Secure http://3.12.146.50:8080/manage/configureTools/ 80% ⭐ ⌂ ⌂ ⌂ ⌂

Dashboard > Manage Jenkins > Tools

node16

Install automatically ?

Install from nodejs.org

Version: NodeJS 16.20.0

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'

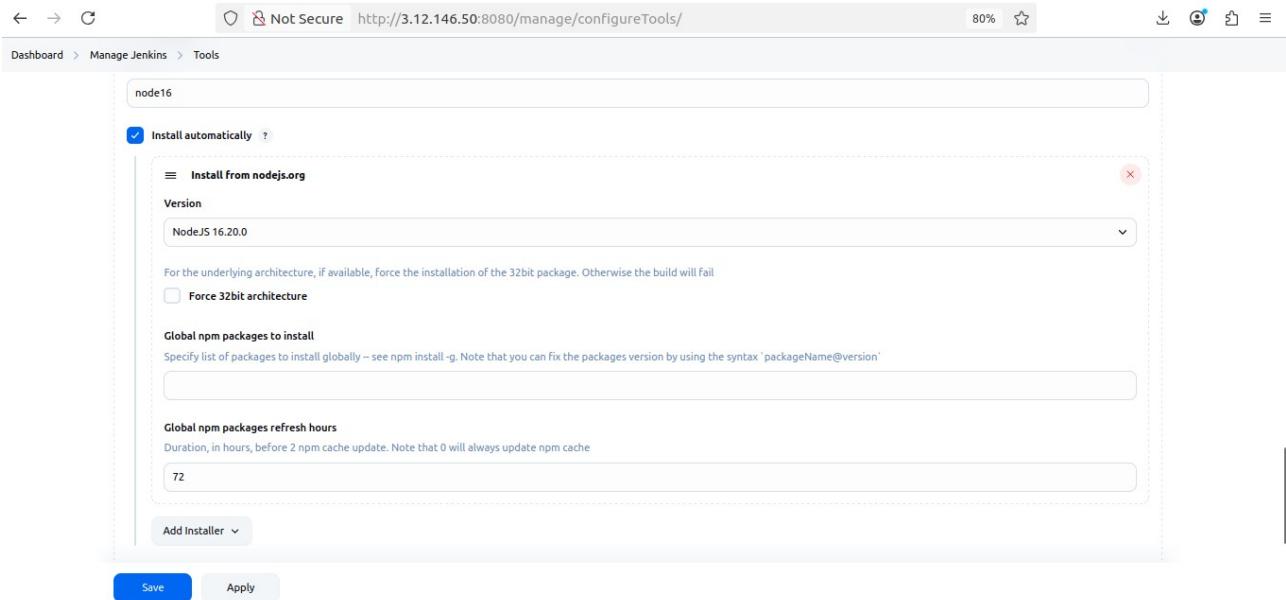
Global npm packages refresh hours

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

72

Add Installer ▾

Save Apply



The screenshot shows the Jenkins Manage Jenkins > Tools page. A new Docker tool is being configured. The 'Name' field is set to 'docker'. The 'Install automatically' checkbox is checked. Under the 'Download from docker.com' section, the 'Docker version' dropdown is set to 'latest'. There is also an 'Add Installer' button. At the bottom, there are 'Save' and 'Apply' buttons.

The screenshot shows the Jenkins Manage Jenkins > System page. It includes sections for 'Home directory' (set to '/var/lib/jenkins'), 'System Message' (a large text area for notifications), and 'Maven Project Configuration' (with a 'Global MAVEN_OPTS' input field). At the bottom are 'Save' and 'Apply' buttons.

← → ⌂ Not Secure http://3.12.146.50:8080/manage/configure 80% ☆ ⌂ ⌂ ⌂ ⌂

Dashboard > Manage Jenkins > System >

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

Environment variables

SonarQube installations
List of SonarQube installations

Name: sonar-server

Server URL: Default is http://localhost:9000
http://3.12.146.50:9000

Server authentication token: SonarQube authentication token. Mandatory when anonymous access is disabled.
sonar-token

+ Add

Advanced

Save Apply

sonar

Highlight All Match Case Match Diacritics Whole Words 1 of 5 matches

← → ⌂ Not Secure myaccount:google.com/?hl=en&utm_source=OGB&utm_medium=act&gar=WzJd&pli=1 ⌂ ⌂ ⌂ ⌂

Google Account

Home Personal info Data & privacy Security People & sharing Payments & subscriptions About

App

Google Account results

- Your connections to third-party apps & services
- Web & App Activity

Help Center articles

- Sign in with app passwords
- Manage app info from your devices
- Access & control activity in your account

Search Help Center for "App"

Privacy suggestions available

Take the Privacy Checkup and choose the settings that are right for you

Privacy Terms Help About support.google.com/accounts/answer/185833?hl=en&utm_source=google-account&utm_medium=search-screen



← → ⌂ Not Secure http://3.12.146.50:8080/view/all/newJob 80% ⭐

Jenkins

Dashboard > All > New Item

New Item

Enter an item name
Starbucks-Project

Select an item type

- Freestyle project**
Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.
- Maven project**
Build a maven project. Jenkins takes advantage of your POM files and drastically reduces the configuration.
- Pipeline**
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
- Multi-configuration project**
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

Folder

OK

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/configure 80% ⭐

Dashboard > Starbucks-Project > Configuration

Configure

General

Triggers

Pipeline

Advanced

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

Script ?

```
1< pipeline {
2   agent any
3   tools {
4     jdk 'jdk17'
5     nodejs 'node16'
6   }
7   environment {
8     SCANNER_HOME = tool 'sonar-scanner'
9   }
10  stages {
11    stage("Clean Workspace") {
12      steps {
13        cleanWs()
14      }
15    }
16  }
17}
```

try sample Pipeline... ▾

Save Apply

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/ 80% ⭐

Jenkins

Dashboard > Starbucks-Project >

Status

Starbucks-Project

Changes Automation

Build Now

Configure

Delete Pipeline

Full Stage View

Favorite

Open Blue Ocean

Stages

Rename

Pipeline Syntax

Builds ***

Build scheduled

No data available. This Pipeline has not yet run.

Stage View

Permalinks

Edit description

This screenshot shows the Jenkins Pipeline status for the 'Starbucks-Project'. On the left, there's a sidebar with various Jenkins-related links like Changes, Build Now, Configure, etc. Below that is a 'Builds' section with a green button labeled 'Build scheduled'. The main area is titled 'Stage View' and displays a message: 'No data available. This Pipeline has not yet run.' There's also a 'Permalinks' section with an 'Edit description' link.

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/ 80% ⭐

Jenkins

Dashboard > Starbucks-Project >

Status

Starbucks-Project

Changes Automation

Build Now

Configure

Delete Pipeline

Full Stage View

Favorite

Open Blue Ocean

Stages

Rename

Pipeline Syntax

Builds ***

Average stage times:

Declarative: Tool Install	Clean Workspace	Git Checkout	SonarQube Analysis
31s	469ms	4s	20s

Jul 22 13:14 No Changes

31s 469ms 4s 20s

Permalinks

Edit description

Builds ***

No builds

This screenshot shows the Jenkins Pipeline status for the 'Starbucks-Project' after a build has been triggered. The 'Builds' section now shows a single entry with a timestamp of 'Jul 22 13:14' and a note 'No Changes'. Below this, a 'Stage View' section displays a horizontal bar chart showing the average stage times for four stages: Declarative: Tool Install (31s), Clean Workspace (469ms), Git Checkout (4s), and SonarQube Analysis (20s). The main sidebar and other Jenkins links remain the same as in the first screenshot.

Not Secure http://3.12.146.50:9000/projects

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

My Favorites All

Search for projects... A

Filters

Quality Gate

Passed	1
Failed	0

Bugs (starbucks) Passed

Bugs	Vulnerabilities	Hotspots Reviewed	Code Smells	Coverage	Duplications	Lines
26 D	0 A	0.0% E	8 A	0.0%	14.6% O	1.5k S JavaScript...

Last analysis: 6 minutes ago

1 of 1 shown

Reliability (starbucks) Bugs

A rating	B rating	C rating	D rating	E rating
0	0	0	1	0

Security (starbucks) Vulnerabilities

A rating	B rating	C rating	D rating	E rating
1	0	0	0	0

Security Review (starbucks) Security Hotspots

A ≥ 80%	B 70% - 80%	C 50% - 70%	D 30% - 50%	E < 30%
0	0	0	0	0

Embedded database should be used for evaluation purposes only.

The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

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Not Secure http://3.12.146.50:9000/dashboard?id=starbucks

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

starbucks main

Search for projects... A

Overview Issues Security Hotspots Measures Code Activity Project Settings Project Information

Quality Gate Status Passed

All conditions passed.

MEASURES

New Code	Overall Code		
26 starbucks Bugs	Reliability D		
0 Vulnerabilities	Security A		
2 Security Hotspots	0.0% Reviewed	Security Review E	
21min Debt	8 Code Smells	Maintainability A	
0.0% Coverage on 44 Lines to cover	- Unit Tests	14.6% Duplications on 1.5k Lines	23 Duplicated Blocks

The screenshot shows the Jenkins interface for the Starbucks-Project. The left sidebar contains navigation links like Dashboard, Changes, Console Output (which is selected), Edit Build Information, Timings, Git Build Data, Open Blue Ocean, Pipeline Overview, Thread Dump, Pause/resume, Replay, Pipeline Steps, and Workspaces. The main area is titled "Console Output" and displays the build log for job #1. The log output is as follows:

```
Started by user mahesh
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Starbucks-Project
[Pipeline] {
[Pipeline] tool
Unpacking https://repo1.maven.org/maven2/org/sonarsource/scanner/cli/sonar-scanner-cli/7.2.0.5079/sonar-scanner-cli-7.2.0.5079.zip to /var/lib/jenkins/tools/hudson.plugins.sonar.SonarRunnerInstallation/sonar-scanner on Jenkins
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool
Unpacking https://github.com/adoptium/temurin17-binaries/releases/download/jdk-17.0.8.1%2B1/OpenJDK17U-jdk_x64_linux_hotspot_17.0.8.1_1.tar.gz to /var/lib/jenkins/tools/hudson.model.JDK/jdk17 on Jenkins
[Pipeline] envVarsForTool
[Pipeline] tool
Unpacking https://nodejs.org/dist/v16.20.0/node-v16.20.0-linux-x64.tar.gz to /var/lib/jenkins/tools/jenkins.plugins.nodejs.tools.NodeJSInstallation/node16 on Jenkins
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
```

The screenshot shows the Jenkins interface for the 'Starbucks-Project'. The left sidebar includes links for Status, Changes, Build Now, Configure, Delete Pipeline, Full Stage View, Favorite, Open Blue Ocean, Stages, Rename, and Pipeline Syntax. The main content area has tabs for Status (selected), Automation, and Edit description. The Status tab displays the 'Stage View' with a table showing average stage times for various steps: Declarative: Tool Install (31s), Clean Workspace (469ms), Git Checkout (4s), SonarQube Analysis (28s), Quality Gate (771ms), Install NPM Dependencies (31s), and OWASP FS Scan (14min 51s). A tooltip indicates 'Jul 22 13:14' and 'No Changes'. Below the table is a 'Permalinks' section with a link to the last build. The Pipeline Syntax section at the bottom shows a pipeline script with stages: Tool Install, Clean Workspace, Git Checkout, SonarQube Analysis, Quality Gate, Install NPM Dependencies, and OWASP FS Scan.

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/1/console 80% ⭐

Jenkins

Dashboard > Starbucks-Project > #1

Console Output

Status Changes Console Output Edit Build Information Timings Git Build Data Open Blue Ocean Pipeline Overview Thread Dump Pause/resume Replay Pipeline Steps Workspaces

Started by user mahesh
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Starbucks-Project
[Pipeline] {
[Pipeline] tool
Unpacking https://repo1.maven.org/maven2/org/sonarsource/scanner/cli/sonar-scanner-cli/7.2.0.5079/sonar-scanner-cli-7.2.0.5079.zip to /var/lib/jenkins/tools/hudson.plugins.sonar.SonarRunnerInstallation/sonar-scanner on Jenkins
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool (hide)
Unpacking https://github.com/adoptium/temurin17-binaries/releases/download/jdk-17.0.8.1%2B1/OpenJDK17U-jdk_x64_linux_hotspot_17.0.8.1_1.tar.gz to /var/lib/jenkins/tools/hudson.model.JDK/jdk17 on Jenkins
[Pipeline] envVarsForTool
[Pipeline] tool
Unpacking https://nodejs.org/dist/v16.20.0/node-v16.20.0-linux-x64.tar.gz to /var/lib/jenkins/tools/jenkins.plugins.nodejs.tools.NodeJSInstallation/nodev16 on Jenkins
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/1/console 80% ⭐

Dashboard > Starbucks-Project > #1

```
[Pipeline]   
[Pipeline] git  
The recommended git tool is: NONE  
No credentials specified  
Cloning the remote Git repository  
Cloning repository https://github.com/yeshwanthlm/starbucks.git  
> git init /var/lib/jenkins/workspace/Starbucks-Project # timeout=10  
Fetching upstream changes from https://github.com/yeshwanthlm/starbucks.git  
> git --version # timeout=10  
> git --version # 'git version 2.34.1'  
> git fetch --tags --force --progress -- https://github.com/yeshwanthlm/starbucks.git +refs/heads/*:refs/remotes/origin/* # timeout=10  
> git config remote.origin.url https://github.com/yeshwanthlm/starbucks.git # timeout=10  
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10  
Avoid second fetch  
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10  
Checking out Revision 6c1d823513d654a7df712b9358d9a334279a091a (refs/remotes/origin/main)  
> git config core.sparsecheckout # timeout=10  
> git checkout -f 6c1d823513d654a7df712b9358d9a334279a091a # timeout=10  
> git branch -a -v --no-abbrev # timeout=10  
> git checkout -b main 6c1d823513d654a7df712b9358d9a334279a091a # timeout=10  
Commit message: "Update README.md"  
First time build. Skipping changelog.  
[Pipeline]   
[Pipeline] // withEnv  
[Pipeline]   
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (SonarQube Analysis)  
[Pipeline] tool  
[Pipeline] envVarsForTool  
[Pipeline] tool
```

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/1/console 80% ☆ ⌂ ⌂ ⌂ ⌂ ⌂

Dashboard > Starbucks-Project > #1

```
[Pipeline] script
[Pipeline] {
[Pipeline] waitForQualityGate
Checking status of SonarQube task 'AZgxGEct1i2AoLhvRDTD' on server 'sonar-server'
SonarQube task 'AZgxGEct1i2AoLhvRDTD' status is 'IN_PROGRESS'
SonarQube task 'AZgxGEct1i2AoLhvRDTD' status is 'SUCCESS'
SonarQube task 'AZgxGEct1i2AoLhvRDTD' completed. Quality gate is 'OK'
[Pipeline]
[Pipeline] // script
[Pipeline]
[Pipeline] // withEnv
[Pipeline]
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Install NPM Dependencies)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv (hide)
[Pipeline] {
[Pipeline] sh
+ npm install
npm WARN deprecated w3c-hr-time@1.0.2: Use your platform's native performance.now() and performance.timeOrigin.
npm WARN deprecated rollup-plugin-terser@7.0.2: This package has been deprecated and is no longer maintained. Please use @rollup/plugin-terser
npm WARN deprecated stable@0.1.8: Modern JS already guarantees Array#sort() is a stable sort, so this library is deprecated. See the compatibility
table on MDN: https://developer.mozilla.org/en-US/docs/Web/JavaScript/Reference/Global\_Objects/Array/sort#browser\_compatibility
npm WARN deprecated sourcemap-codec@1.4.8: Please use @jridgewell/sourcemap-codec instead
npm WARN deprecated svgo@1.3.2: This SVGO version is no longer supported. Upgrade to v2.x.x.

added 1482 packages, and audited 1483 packages in 28s
```

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/1/console 80% ☆ ⌂ ⌂ ⌂ ⌂ ⌂

Dashboard > Starbucks-Project > #1

```
[Pipeline] {
[Pipeline] dependencyCheck
Unpacking https://github.com/Dependency-Check/DependencyCheck/releases/download/v12.1.3/dependency-check-12.1.3-release.zip to /var/lib/jenkins/tools/org.jenkinsci.plugins.DependencyCheck.tools.DependencyCheckInstallation/DP-Check on Jenkins
[INFO] Checking for updates
[WARNING] An NVD API Key was not provided - it is highly recommended to use an NVD API key as the update can take a VERY long time without an API Key
[INFO] NVD API has 302,752 records in this update
[INFO] Downloaded 10,000/302,752 (3%)
[INFO] Downloaded 20,000/302,752 (7%)
[INFO] Downloaded 30,000/302,752 (10%)
[INFO] Downloaded 40,000/302,752 (13%)
[INFO] Downloaded 50,000/302,752 (17%)
[INFO] Downloaded 60,000/302,752 (20%)
[INFO] Downloaded 70,000/302,752 (23%)
[INFO] Downloaded 80,000/302,752 (26%)
[INFO] Downloaded 90,000/302,752 (30%)
[INFO] Downloaded 100,000/302,752 (33%)
[INFO] Downloaded 110,000/302,752 (36%)
[INFO] Downloaded 120,000/302,752 (40%)
[INFO] Downloaded 130,000/302,752 (43%)
[INFO] Downloaded 140,000/302,752 (46%)
[INFO] Downloaded 150,000/302,752 (50%)
[INFO] Downloaded 160,000/302,752 (53%)
[INFO] Downloaded 170,000/302,752 (56%)
[INFO] Downloaded 180,000/302,752 (59%)
[INFO] Downloaded 190,000/302,752 (63%)
[INFO] Downloaded 200,000/302,752 (66%)
[INFO] Downloaded 210,000/302,752 (69%)
```

aws Search [Alt+S] United States (Ohio) Swathi Sethuraman

[Edit inbound rules](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0d8459fde6291d33d	Custom TCP	TCP	6443	Custom	k8s
sgr-07b344280b35473f5	HTTPS	TCP	443	Custom	Allow secure web access
sgr-02ba4076388f44f86	Custom TCP	TCP	8080	Custom	jenkins
sgr-0c0ccf74d5ac50a3d	Custom TCP	TCP	3000	Custom	starbucks
sgr-093fead0dd29bbef1	HTTP	TCP	80	Custom	Allow public web access
sgr-02e10fb0baf69c491	SSH	TCP	22	Custom	Remote login (limit access)-ssh
sgr-09f3d0a55c10dd490	Custom TCP	TCP	9000	Custom	sonarqube

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Not Secure http://3.12.146.50:9000/projects

sonarqube Projects Issues Rules Quality Profiles Quality Gates Administration

My Favorites All

Filters

Quality Gate

- Passed (1)
- Failed (0)

Bugs (1)

- A rating (0)
- B rating (0)
- C rating (0)
- D rating (1)
- E rating (0)

Vulnerabilities (0)

Hotspots Reviewed (0.0%)

Code Smells (8)

Coverage (0.0%)

Duplications (14.6%)

Lines (1.5k)

JavaScript (8)

1 project(s)

Perspective: Overall Status Sort by: Name

starbucks (Passed)

Last analysis: 20 minutes ago

Bugs (26 D) Vulnerabilities (0 A) Hotspots Reviewed (0.0% E) Code Smells (8 A) Coverage (0.0%) Duplications (14.6%) Lines (1.5k B) JavaScript (8)

1 of 1 shown

Embedded database should be used for evaluation purposes only
The embedded database will not scale, it will not support upgrading to newer versions of SonarQube, and there is no support for migrating your data out of it into a different database engine.

SonarQube™ technology is powered by SonarSource SA
Community Edition - v9.9.8 (build 100196) - [LGPL v3](#) - [Community](#) - [Documentation](#) - [Plugins](#) - [Web API](#)

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/1/console

Dashboard > Starbucks-Project > #1

About ODC: <https://dependency-check.github.io/DependencyCheck/general/internals.html>
 False Positives: <https://dependency-check.github.io/DependencyCheck/general/suppression.html>

Heart Sponsor: <https://github.com/sponsors/jeremylong>

```
[INFO] Analysis Started
[INFO] Finished File Name Analyzer (0 seconds)
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/babel-loader/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/css-minimizer-webpack-plugin/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/eslint-webpack-plugin/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/fork-ts-checker-webpack-plugin/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] dependency skipped: node module fsevents seems optional and not installed
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/mini-css-extract-plugin/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/webpack-dev-middleware/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[WARN] Unable to find node module: /var/lib/jenkins/workspace/Starbucks-Project/node_modules/webpack-dev-server/node_modules/schema-utils/node_modules/ajv-keywords/package.json
[INFO] Finished Node.js Package Analyzer (8 seconds)
[INFO] Finished Dependency Merging Analyzer (2 seconds)
[INFO] Finished Hint Analyzer (0 seconds)
[INFO] Finished Version Filter Analyzer (0 seconds)
[INFO] Created CPE Index (3 seconds)
```

github.com/sponsors/jeremylong

← → ⌂ Not Secure http://3.12.146.50:8080/job/Starbucks-Project/

Jenkins

Dashboard > Starbucks-Project >

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Favorite

Open Blue Ocean

Stages

Rename

Pipeline Syntax

Automation

Starbucks-Project

Edit description

Average stage times:

Declarative: Tool Install	Clean Workspace	Git Checkout	SonarQube Analysis	Quality Gate	Install NPM Dependencies	OWASP FS Scan
31s	469ms	4s	28s	771ms	31s	28min 7s

Jul 22 13:14 No Changes

31s 469ms 4s 28s 771ms (paused for 387ms) 31s 28min 7s

Stage View

Permalinks

Builds

Last build (#1), 29 min ago

Filter

Today

#1 7:44 AM

Not Secure http://3.12.146.50:8080/job/Starbucks-Project/

Starbucks-Project

Automation

Dependency-Check Trend

Stage View

Stage	Duration
Declarative: Tool Install	178ms
Clean Workspace	328ms
Git Checkout	3s
SonarQube Analysis	24s
Quality Gate	343ms
Install NPM Dependencies	18s
OWASP Dependency-Check	5min 25s
Trivy File Scan	19s
Build Docker Image	40s
Tag & Push to DockerHub	43s
Docker Scan:Image Analysis	1s
Deploy to Container	1s

Builds

- #3 8:39 AM
- #2 8:27 AM
- #1 7:44 AM

SonarQube Quality Gate

starbucks | Passed
server-side processing: Success

Not Secure http://3.12.146.50:8080/job/Starbucks-Project/3/dependency-check-findings/

Dependency-Check Results

SEVERITY DISTRIBUTION

Severity	Count
Critical	2
High	16
Medium	16
Low	21

File Name | Vulnerability | Severity | Weakness

File Name	Vulnerability	Severity	Weakness
async3.2.4	OSSINDEX CVE-2024-39249	Medium	CWE-1333
body-parser1.20.1	OSSINDEX CVE-2024-45590	High	CWE-405
brace-expansion1.1.11	OSSINDEX CVE-2025-5889	Medium	CWE-1333
braces3.0.2	OSSINDEX CVE-2024-4068	High	CWE-1050
cookie0.5.0	OSSINDEX CVE-2024-47764	Medium	CWE-74
cross-spawn7.0.3	OSSINDEX CVE-2024-21538	High	CWE-1333
css-what3.4.2	OSSINDEX CVE-2022-21222	High	CWE-1333
ejs3.1.9	NVD CVE-2023-29827	Critical	CWE-74
ejs3.1.9	OSSINDEX CVE-2024-33883	High	CWE-693
express4.18.2	OSSINDEX CVE-2024-29041	Medium	CWE-1286

Jenkins 2.504.3

Not Secure http://3.12.146.50:8080/blue/organizations/jenkins/Starbucks-Project/detail/Starbucks-Pro/67% Logout

Starbucks-Project < 3

Branch: - 7m 59s
Commit: - 2 minutes ago

No changes Started by user mahesh

Pipeline Changes Tests Artifacts

Deploy to Container - 1s

- > jdk17 – Use a tool from a predefined Tool Installation +1s
- > Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step. +1s
- > node16 – Use a tool from a predefined Tool Installation +1s
- > Fetches the environment variables for a given tool in a list of 'FOO=bar' strings suitable for the withEnv step. +1s
- > docker rm -f starbucks || true – Shell Script +1s
- > docker run -d --name starbucks -p 3000:3000 mahi320/starbucks:latest – Shell Script +1s

hub.docker.com/repositories/mahi320

*+ New Building AI Agents is Now Easy.

hub Explore My Hub

Repositories All repositories within the mahi320 namespace.

Search by repository name All content Create a repository

Name	Last Pushed	Contains	Visibility	Scout
mahi320/starbucks	3 minutes ago	IMAGE	Public	Inactive
mahi320/netflix	15 days ago	IMAGE	Public	Inactive
mahi320/mahesh-banking-app-ci-cd	over 1 year ago	IMAGE	Public	Inactive
mahi320/sam	almost 2 years ago	IMAGE	Public	Inactive

1–4 of 4

hub.docker.com/search?q=mahi320%2Fstarbucks

Explore My Hub

mahi320/starbucks

Best match

Filter by	1 - 28 of 898 results for mahi320/starbucks.							
Products	<input type="checkbox"/> Images <input type="checkbox"/> Extensions <input type="checkbox"/> Plugins							
Trusted content	<input type="checkbox"/> Docker Official Image <input type="checkbox"/> Verified Publisher <input type="checkbox"/> Sponsored OSS							
Categories	<input type="checkbox"/> Networking <input type="checkbox"/> Security							
 mahi320/starbucks mahi320 A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 gouthamc125/starbu... gouthamc125 A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 paulnguyen/starbuck... paulnguyen A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 011545313/starbucks 011545313 A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 paulnguyen/starbucks paulnguyen A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 jkl2142/starbucks jkl2142 A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 androskis7/starbucks... androskis7 A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								
 paulnguyen/spring-st... paulnguyen A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline. IMAGE								

hub.docker.com/r/mahi320/starbucks

mah320/starbucks

By mahi320 · Updated 9 minutes ago

A Node.js-based Starbucks clone application built with Docker and CI/CD pipeline.

IMAGE

0 ⌂ 5

Overview Tags

No overview available

This repository doesn't have an overview

Tag summary

Recent tag: latest

Content type: Image

Digest: sha256:fc87b78c8...

Docker pull command: docker pull mahi320/starbucks

Run in Docker Desktop

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like Dashboard, EC2 Global View, Events, Instances (selected), Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, and AMI Catalog. The main content area has a header "Instances (1/1) Info" with a search bar and filter options. A table lists one instance: "Starbucks-web..." (ID i-0965088ad43db6e44). The instance details are as follows:

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
Starbucks-web...	i-0965088ad43db6e44	Running	t2.large	2/2 checks passed	View alarms	us-east-2a	ec2-3-12-146-50.us-eas...	3.12.146.50

Below the table, a detailed view for instance i-0965088ad43db6e44 is shown under the heading "i-0965088ad43db6e44 (Starbucks-website)". It includes tabs for Details, Status and alarms, Monitoring, Security, Networking, Storage, and Tags. Under the Details tab, the "Instance summary" section provides information about the instance ID (i-0965088ad43db6e44), Public IPv4 address (3.12.146.50), Private IPv4 addresses (172.31.5.240), and Public DNS (ec2-3-12-146-50.us-east-2.compute.amazonaws.com).

The screenshot shows the Jenkins dashboard. At the top, there's a header with a Jenkins logo, the URL http://3.12.146.50:8080, and user information (mahesh). Below the header, the dashboard has a "New Item" button and links for Build History, Manage Jenkins, My Views, and Open Blue Ocean. The "My Views" section contains a table with columns S, W, Name, Last Success, Last Failure, and Last Duration. One row is visible for "Starbucks-Project", which was last successful 19 min #3 and failed 31 min #2. Below the table, there's a "Build Queue" section stating "No builds in the queue." and a "Build Executor Status" section showing 0/2 executors. At the bottom right, there are links for REST API and Jenkins 2.504.3.

Screenshot of the AWS EC2 Instances page showing a single running instance named "Starbucks-web...". The instance ID is i-0965088ad43db6e44, it's a t2.large type, and its status is Running. It has 2/2 checks passed. The Public IPv4 address is 3.12.146.50 and the Private IPv4 address is 172.31.5.240. The Public DNS is ec2-3-12-146-50.us-east-2.compute.amazonaws.com.

The Actions menu is open, showing options like Stop instance, Start instance, Reboot instance, Hibernate instance, and Terminate (delete) instance. The "Terminate (delete) instance" option is highlighted with a yellow background.

A confirmation dialog box titled "Terminate (delete) instance" is displayed. It contains a warning message: "On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost." Below this, a question asks, "Are you sure you want to terminate these instances?"

The dialog shows the instance ID i-0965088ad43db6e44 and the termination protection status as "Disabled". A note states, "To confirm that you want to delete the instances, choose the terminate button below. Instances with termination protection enabled will not be terminated. Terminating the instance cannot be undone."

At the bottom right of the dialog is a large orange "Terminate (delete)" button. There are also "Cancel" and "X" buttons.

The screenshot shows the Docker Hub interface for the user 'mahi320'. The left sidebar includes sections for 'Repositories' (selected), 'Collaborations', 'Settings', 'Default privacy', 'Notifications', 'Billing', 'Usage' (with a dropdown arrow), 'Pulls', and 'Storage'. The main content area is titled 'Repositories' and displays four public repositories: 'mahi320/starbucks', 'mahi320/netflix', 'mahi320/mahesh-banking-app-cicd', and 'mahi320/sam'. Each repository row includes columns for 'Name', 'Last Pushed', 'Contains', 'Visibility', and 'Scout'. A search bar at the top right says 'Search Docker Hub'.

Name	Last Pushed	Contains	Visibility	Scout
mahi320/starbucks	14 minutes ago	IMAGE	Public	Inactive
mahi320/netflix	15 days ago	IMAGE	Public	Inactive
mahi320/mahesh-banking-app-cicd	over 1 year ago	IMAGE	Public	Inactive
mahi320/sam	almost 2 years ago	IMAGE	Public	Inactive

#OUTPUT OF STARTBUCKS WEBSITE

The screenshot shows a web browser displaying a Starbucks website at <http://localhost:3000/dashboard>. The page includes a header with navigation links for Home, Gift, Order, Pay, and Store, along with a search bar and a rewards notification. Below the header, there's a section for 'Handcrafted Curations' featuring categories like BestSeller, Drinks, Food, Merchandise, Coffee At Home, and Ready to Eat. A prominent yellow callout box highlights 'Signature Milkshakes' with a picture of a milkshake, a description, and a 'Order Now' button.

Rewards are pouring! Sign up now. [Know More](#)

Handcrafted Curations

BestSeller Drinks Food Merchandise Coffee At Home Ready to Eat

Attention Starbucks Fans!

Signature Milkshakes

Satisfy your sweet tooth with our signature milkshakes. Indulge today in these coffee-free versions.

Starting From ₹ 330.00

Order Now