

Project-CI/CD Deployment for Spring-Boot Application.

Git Repository link: <https://github.com/subhadips24/Phase-5-Final-Project>

Developer Name: **SUBHADIP SAMANTA**

DESCRIPTION:

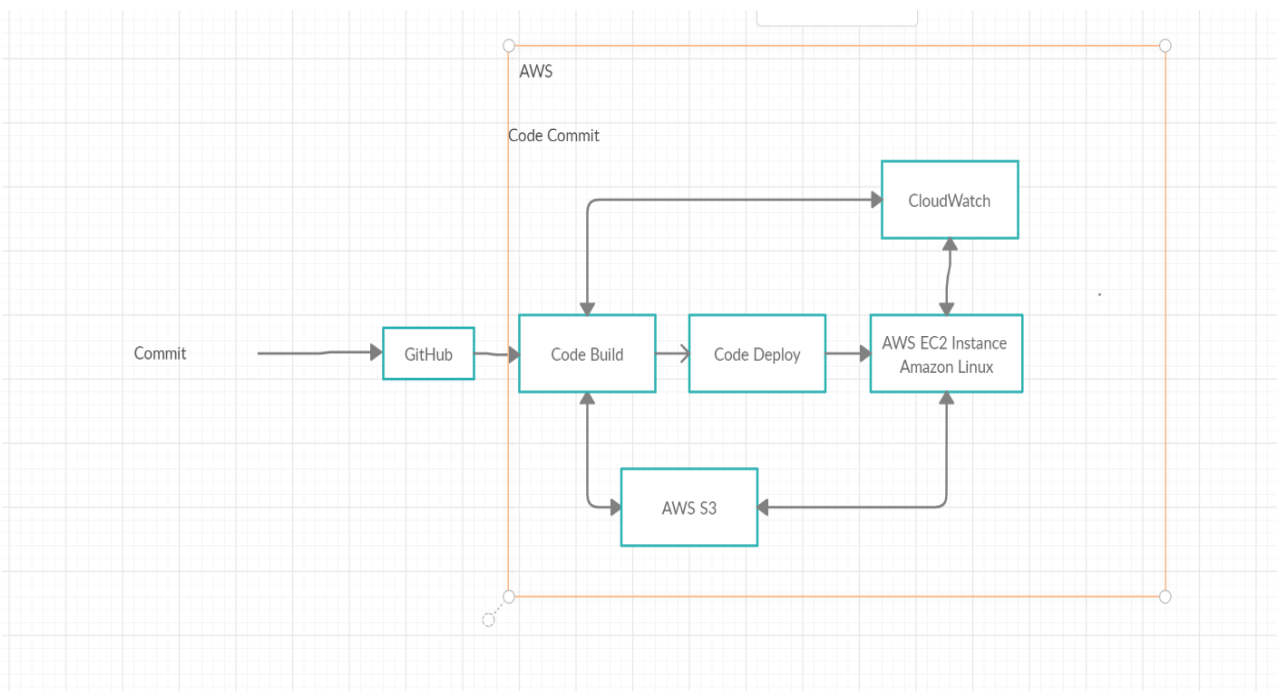
Project Objective:

In this project building a CI/CD pipeline to demonstrate continuous deployment and host the application on AWS EC2 instance.

Following flow used:

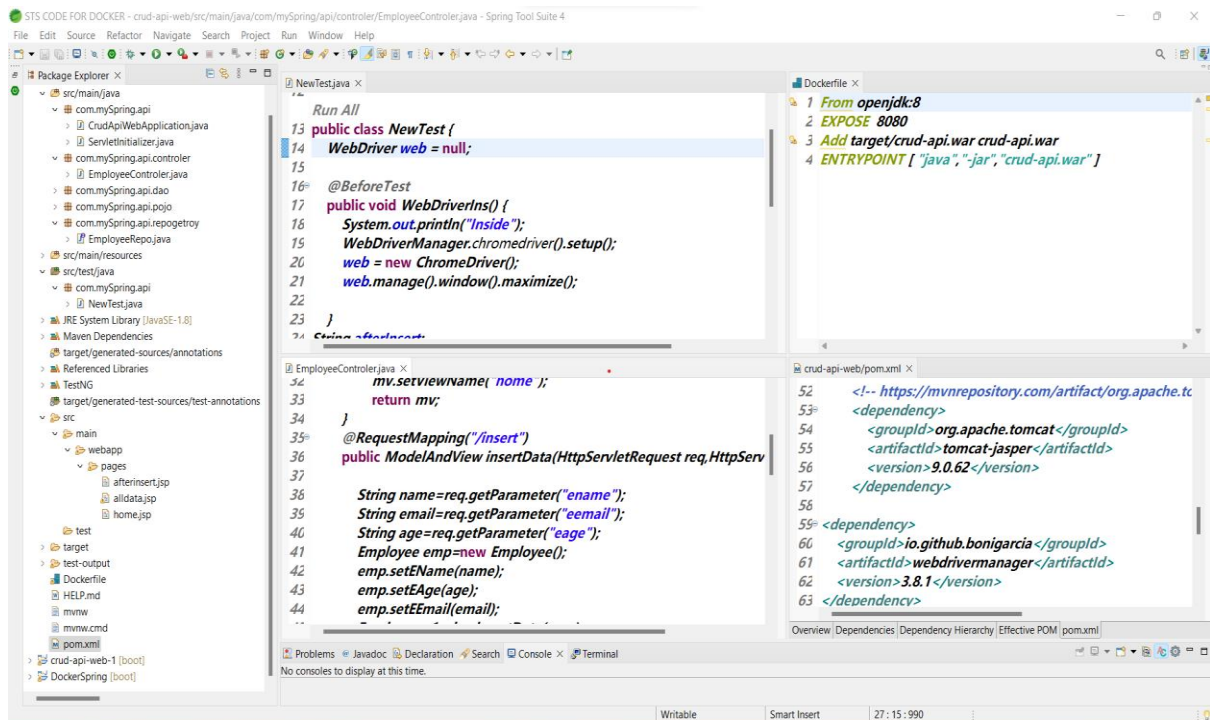
- *Eclipse*
- *GitHub*
- *Jenkins*
- *AWS EC2/ Virtual machine*

□ Representing visually what we are doing here.

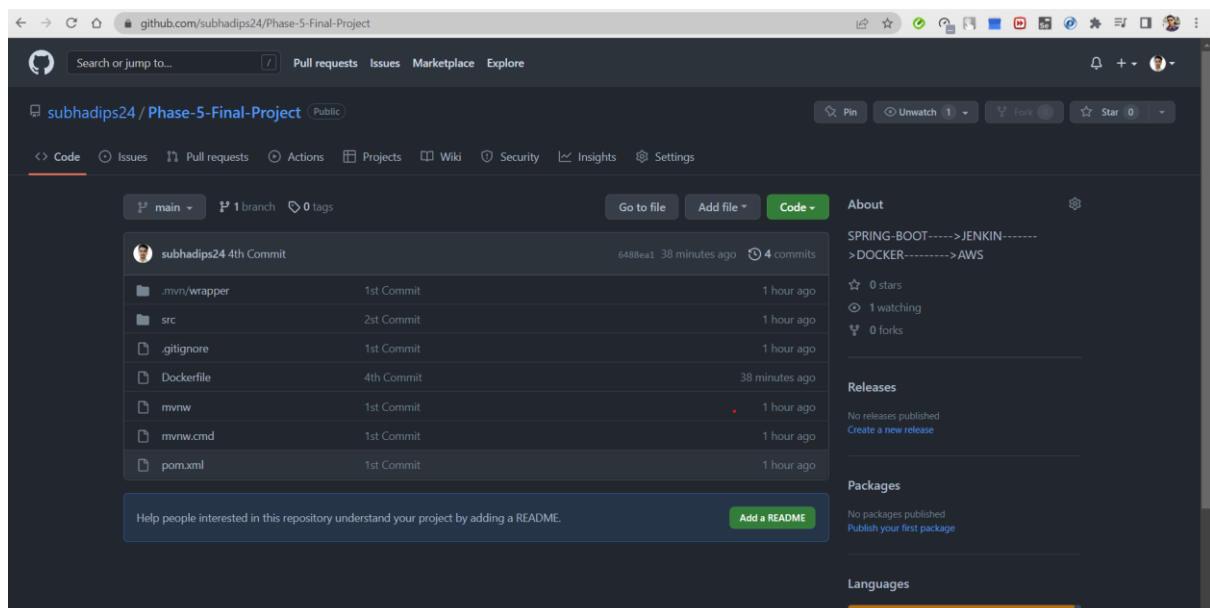


Following steps are used while making a Project:

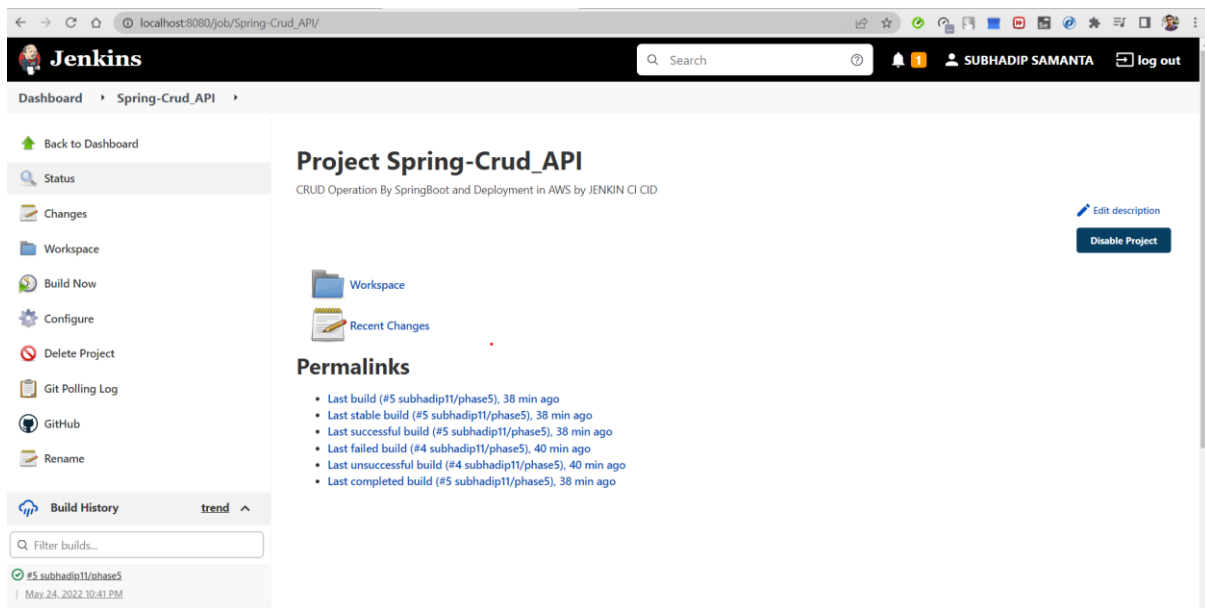
Eclipse: Creating / build the Spring boot Application inside an Eclipse workspace.



Push the jar file into GitHub repository.

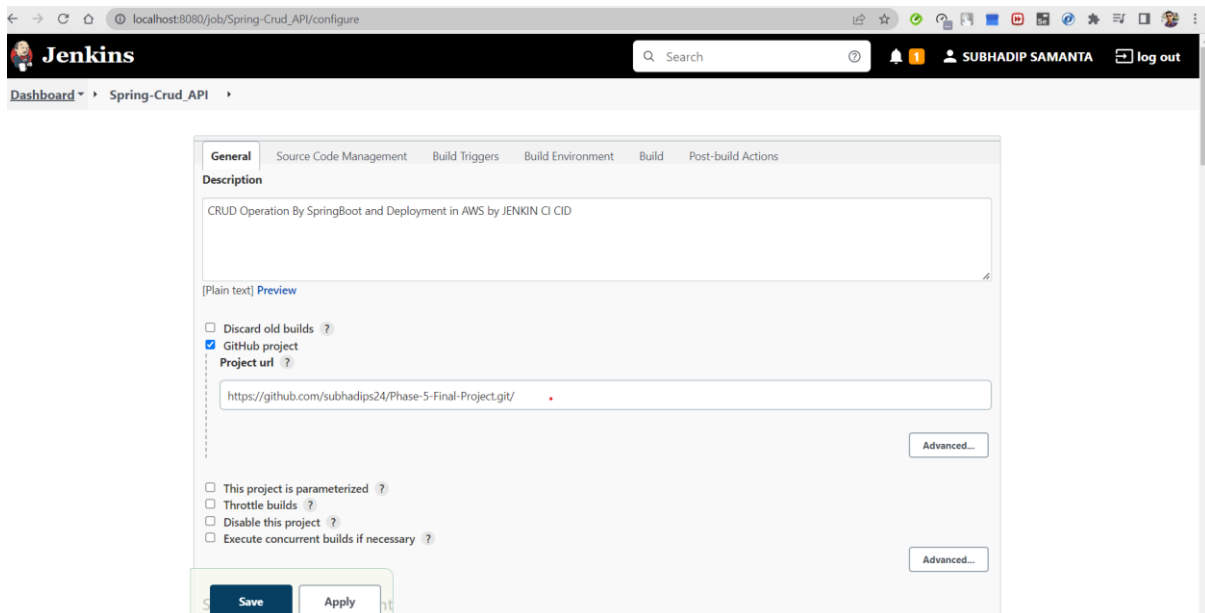


JENKIN Work Place

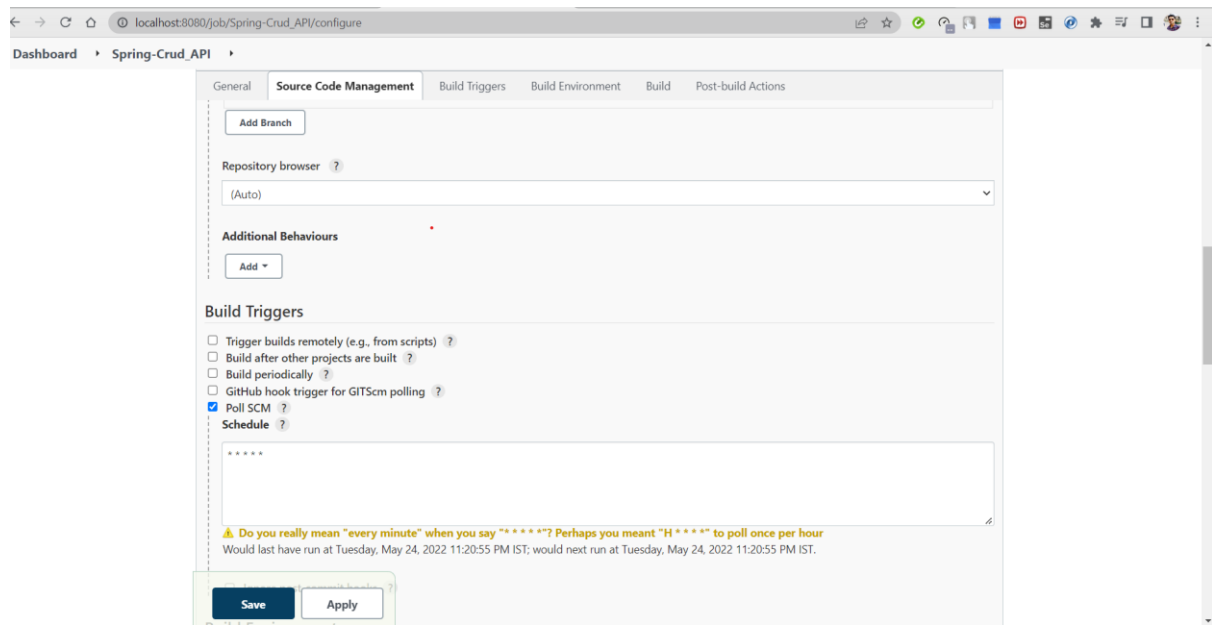


The screenshot shows the Jenkins web interface for a project named "Project Spring-Crud_API". The browser address bar indicates the URL is localhost:8080/job/Spring-Crud_API/. The Jenkins header includes a search bar, a notification bell, and the user name "SUBHADIP SAMANTA" with a "log out" button. The left sidebar contains navigation links: "Back to Dashboard", "Status", "Changes", "Workspace", "Build Now", "Configure", "Delete Project", "Git Polling Log", "GitHub", and "Rename". The main content area displays the project name and description: "CRUD Operation By SpringBoot and Deployment in AWS by JENKIN CI CID". Below this, there are links for "Workspace" and "Recent Changes". A "Permalinks" section lists several build links, including "Last build (#5 subhadip11/phase5), 38 min ago", "Last stable build (#5 subhadip11/phase5), 38 min ago", "Last successful build (#5 subhadip11/phase5), 38 min ago", "Last failed build (#4 subhadip11/phase5), 40 min ago", "Last unsuccessful build (#4 subhadip11/phase5), 40 min ago", and "Last completed build (#5 subhadip11/phase5), 38 min ago". On the right, there are buttons for "Edit description" and "Disable Project". At the bottom, the "Build History" section shows a table with one entry: "#5 subhadip11/phase5" with a status of "Success" and a timestamp of "May 24, 2022 10:41 PM".

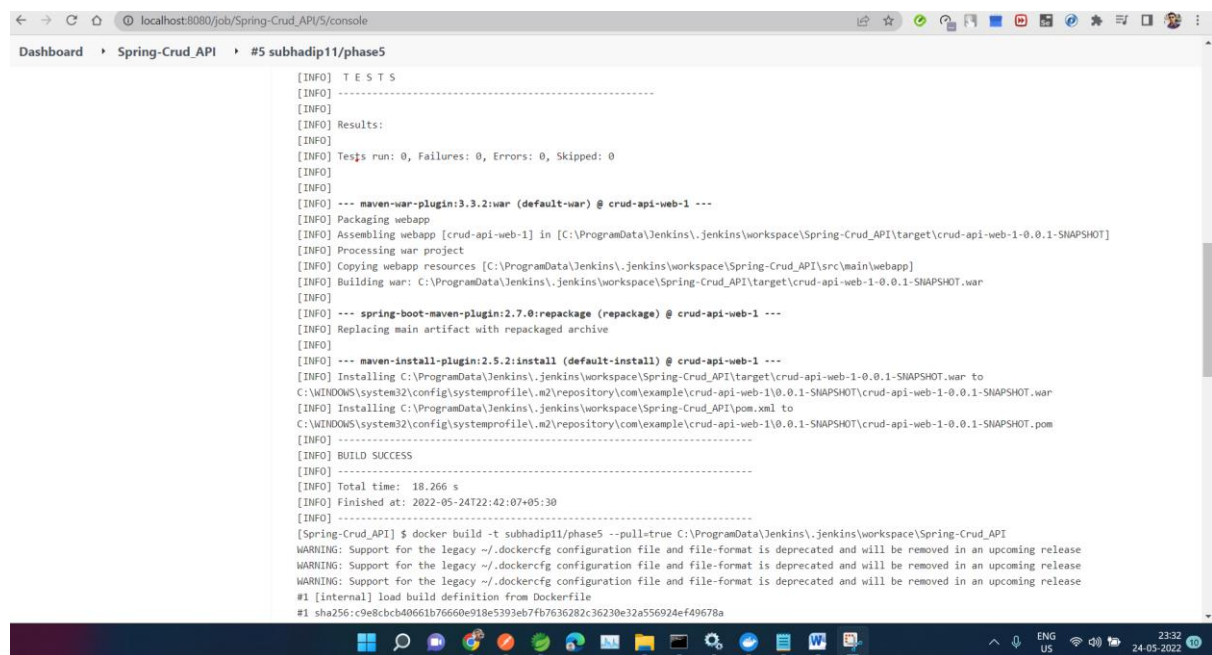
Configuration



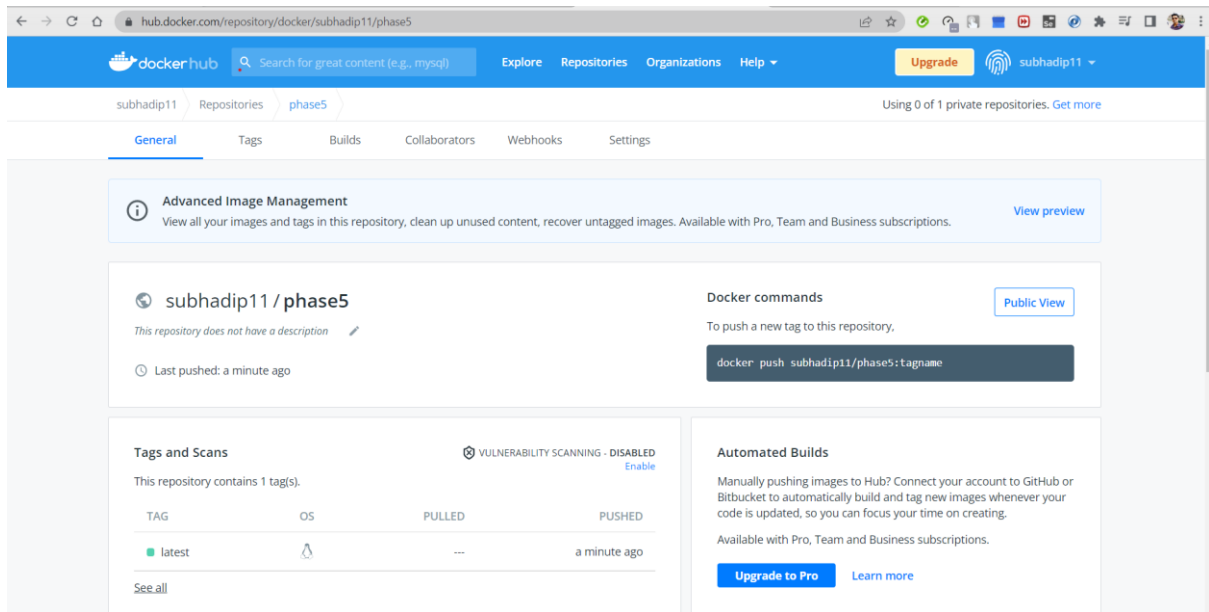
The screenshot shows the Jenkins configuration page for the "Project Spring-Crud_API". The browser address bar indicates the URL is localhost:8080/job/Spring-Crud_API/configure. The Jenkins header is the same as the previous screenshot. The left sidebar shows the "Configure" link selected. The main content area is a form with tabs for "General", "Source Code Management", "Build Triggers", "Build Environment", "Build", and "Post-build Actions". The "General" tab is active, showing a "Description" field with the text "CRUD Operation By SpringBoot and Deployment in AWS by JENKIN CI CID". Below the description, there are checkboxes for "Discard old builds", "GitHub project", "This project is parameterized", "Throttle builds", "Disable this project", and "Execute concurrent builds if necessary". The "GitHub project" checkbox is checked, and the "Project url" field contains the value "https://github.com/subhadips24/Phase-5-Final-Project.git/". There are "Advanced..." buttons next to the "Project url" and "Execute concurrent builds if necessary" fields. At the bottom, there are "Save" and "Apply" buttons.



BUILD WAR FILE AND PUSH DOCKER



DOCKER



The screenshot shows the Docker Hub repository page for 'subhadip11/phase5'. The page includes a search bar, navigation tabs (General, Tags, Builds, Collaborators, Webhooks, Settings), and a 'phase5' tag selected. The 'General' tab is active, displaying the repository name, a description placeholder, and the last push time. A 'Docker commands' section shows the command 'docker push subhadip11/phase5:tagname'. A 'Tags and Scans' section shows a table with one tag 'latest' and a 'VULNERABILITY SCANNING - DISABLED' status. An 'Automated Builds' section provides information about connecting to GitHub or Bitbucket for automated builds.

Advanced Image Management
View all your images and tags in this repository, clean up unused content, recover untagged images. Available with Pro, Team and Business subscriptions. [View preview](#)

subhadip11/phase5
This repository does not have a description
Last pushed: a minute ago

Docker commands
To push a new tag to this repository, [Public View](#)

```
docker push subhadip11/phase5:tagname
```

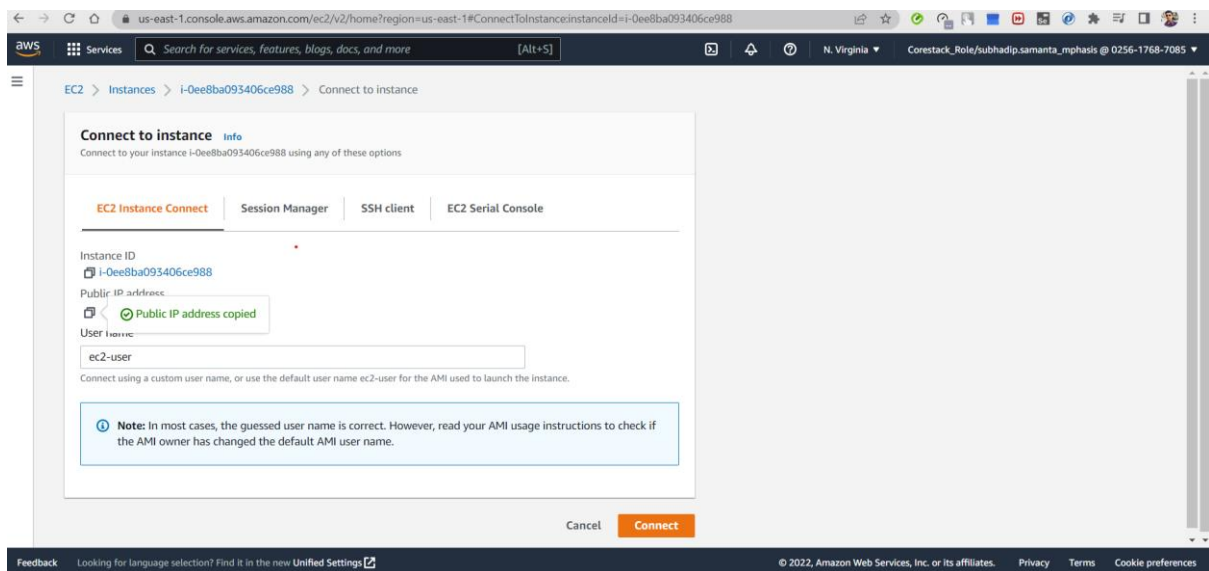
Tags and Scans **VULNERABILITY SCANNING - DISABLED** [Enable](#)
This repository contains 1 tag(s).

TAG	OS	PULLED	PUSHED
latest	linux	---	a minute ago

[See all](#)

Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.
Available with Pro, Team and Business subscriptions.
[Upgrade to Pro](#) [Learn more](#)

AWS EC2



The screenshot shows the AWS Management Console 'Connect to instance' page for instance 'i-0ee8ba093406ce988'. The page includes a search bar, navigation tabs (EC2 Instance Connect, Session Manager, SSH client, EC2 Serial Console), and a 'Public IP address copied' notification. The 'EC2 Instance Connect' tab is active, displaying the instance ID, public IP address, and user name 'ec2-user'. A 'Note' section provides information about the default user name. The 'Connect' button is highlighted.

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#ConnectToInstance:instanceId=i-0ee8ba093406ce988

aws Services Search for services, features, blogs, docs, and more [Alt+S] N. Virginia Corestack_Role/subhadip.samanta_mphasis @ 0256-1768-7085

EC2 > Instances > i-0ee8ba093406ce988 > Connect to instance

Connect to instance **Info**
Connect to your instance i-0ee8ba093406ce988 using any of these options

EC2 Instance Connect Session Manager SSH client EC2 Serial Console

Instance ID
i-0ee8ba093406ce988
Public IP address
Public IP address copied
User name
ec2-user
Connect using a custom user name, or use the default user name ec2-user for the AMI used to launch the instance.

Note: In most cases, the guessed user name is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel **Connect**

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

OUTPUT RUN IN WEB

← → ↻ ⚠ Not secure | 52.91.16.93:8085

Fell Up The Details of Employee

Enter Employee Name:

Enter Employee Age:

Enter Employee Email:

Windows taskbar: 23:28 24-05-2022

← → ↻ ⚠ Not secure | 52.91.16.93:8085/showData

Employee All Data

ID	Name	Email	Age
1	SUBHADIP SAMANTA	subhadips1999@hotmail.com	23
2	nitesh	niteshtiwari0808@gmail.com	23
3	Sunirmal Bera	sunirmal123@gmail.com	24
4	KABIR KHAN	kabir@gmail.com	45

[Go For Registration](#)

Windows taskbar: 23:30 24-05-2022