

1. Log in to your Jenkins account through the url: <http://localhost:8000/>
2. Make sure the following plugins are installed.

The screenshot shows the Jenkins 'Plugins' page with the search filter 'docker'. The left sidebar has 'Available plugins' selected. The main table lists the following plugins:

Install	Name	Released
<input type="checkbox"/>	Docker 1.6.1 Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	17 days ago
<input type="checkbox"/>	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.	10 mo ago
<input checked="" type="checkbox"/>	Docker Pipeline 580.v0c340686b_54 pipeline DevOps Deployment docker Build and use Docker containers from pipelines.	8 days 12 hr ago
<input type="checkbox"/>	Docker API 3.3.4-86.v39b_a_5ede342c Library plugins (for use by other plugins) docker This plugin provides docker-java API for other plugins. <i>This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.</i>	6 mo 3 days ago

A red error banner at the bottom states: 'There were errors checking the update sites: UnknownHostException: updates.jenkins.io'.

The screenshot shows the 'Download progress' page in Jenkins. The left sidebar has 'Download progress' selected. The main content area shows the following progress:

- Preparation
 - Checking internet connectivity: Success
 - Checking update center connectivity: Success
- GitHub integration: Success
- Loading plugin extensions: Success

Below the progress, there are two instructions:

- Go back to the top page (you can start using the installed plugins right away)
- ☐ Restart Jenkins when installation is complete and no jobs are running

The screenshot shows the Jenkins 'Plugins' page with the search filter 'Docker'. The left sidebar has 'Download progress' selected. The main table lists the following plugins:

Install	Name	Released
<input checked="" type="checkbox"/>	Docker 1.6.1 Cloud Providers Cluster Management docker This plugin integrates Jenkins with Docker	17 days ago
<input type="checkbox"/>	Docker API 3.3.4-86.v39b_a_5ede342c Library plugins (for use by other plugins) docker This plugin provides docker-java API for other plugins. <i>This plugin is up for adoption! We are looking for new maintainers. Visit our Adopt a Plugin initiative for more information.</i>	6 mo 3 days ago
<input type="checkbox"/>	docker-build-step 2.12 Build Tools docker This plugin allows to add various docker commands to your job as build steps. <i>Warning: This plugin version may not be safe to use. Please review the following security notices:</i> <ul style="list-style-type: none">• CSRF vulnerability and missing permission check	3 days 0 hr ago
<input type="checkbox"/>	CloudBees Docker Build and Publish 1.4.0	

localhost:8000/manage/pluginManager/available

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Jenkins

Dashboard > Manage Jenkins > Plugins

Search (CTRL+K)

log out

Plugins

Updates 27

Available plugins

Installed plugins

Advanced settings

Download progress

Search: kuberne

Install	Name	Released
<input type="checkbox"/>	Kubernetes Client API 6.10.0-240.v57880ce8b_0b_2 kubernetes Library plugins (for use by other plugins) Kubernetes Client API plugin for use by other Jenkins plugins.	4 mo 4 days ago
<input type="checkbox"/>	Kubernetes Credentials 174.va_36e093562d9 kubernetes credentials Common classes for Kubernetes credentials	2 days 22 hr ago
<input checked="" type="checkbox"/>	Kubernetes 4238.v41b_3ef14a_5d8 Cloud Providers Cluster Management kubernetes Agent Management This plugin integrates Jenkins with Kubernetes	1 day 2 hr ago
<input type="checkbox"/>	Kubernetes CLI 1.12.1 kubernetes Configure kubectl for Kubernetes	9 mo 4 days ago
<input type="checkbox"/>	Kubernetes Credentials Provider 1.262.v2670ef7ea_0c5 kubernetes credentials Provides a read only credentials store backed by Kubernetes.	3 mo 1 day ago
<input type="checkbox"/>	Kubernetes :: Pipeline :: DevOps Steps 1.6	

3. Create dockerhub credential on Jenkins.

localhost:8000/manage/

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Jenkins

Dashboard > Manage Jenkins

Manage Jenkins

My Views

Build Queue
No builds in the queue.

Build Executor Status
1 Idle
2 Idle

Warnings have been published for the following currently installed components:
[Script Security Plugin 1335.v07d9ce377a_e](#):
Multiple sandbox bypass vulnerabilities
A fix for this issue is available. Go to the [plugin manager](#) to update the plugin.

Go to plugin manager

Configure which of these warnings are shown

System Configuration

- System**
Configure global settings and paths.
- Tools**
Configure tools, their locations and automatic installers.
- Plugins**
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.
- Nodes**
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.
- Clouds**
Add, remove, and configure cloud instances to provision agents on-demand.
- Appearance**
Configure the look and feel of Jenkins.

Security

- Security**
Secure Jenkins; define who is allowed to access/use the system.
- Credentials**
Configure credentials
- Credential Providers**
Configure the credential providers and types
- Users**
Create/delete/modify users that can log in to this Jenkins.
- In-process Script Approval**
Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could

localhost:8000/manage/credentials/

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Jenkins

Dashboard > Manage Jenkins > Credentials

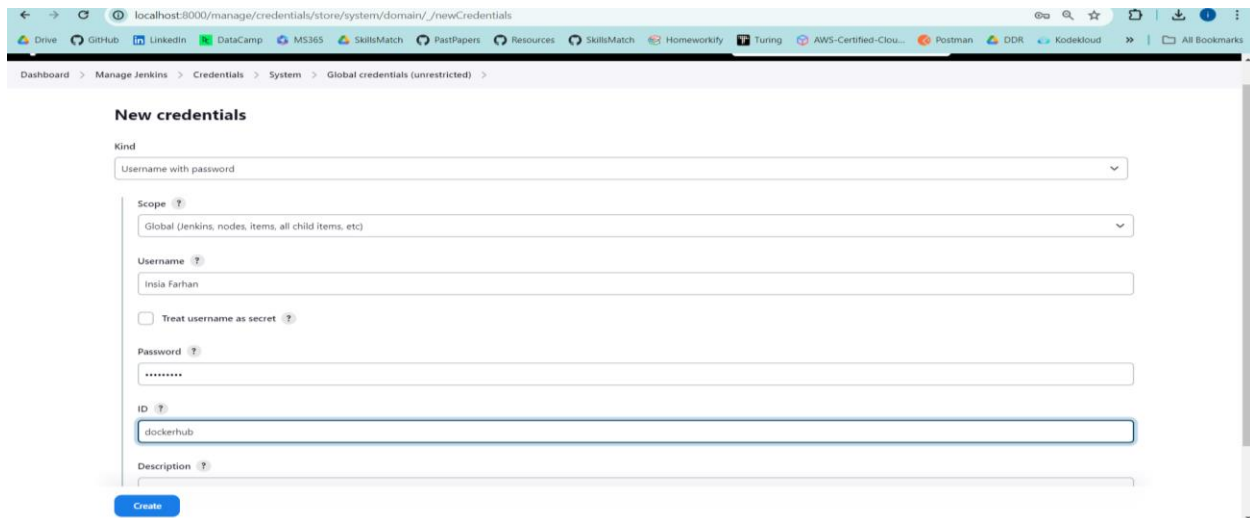
Credentials

T	P	Store	Domain	ID	Name
---	---	-------	--------	----	------

Stores scoped to Jenkins

P	Store	Domains
	System	(global)

Icons: S M L



The screenshot shows the Jenkins 'New credentials' form. The 'Kind' is set to 'Username with password'. The 'Scope' is 'Global (Jenkins, nodes, items, all child items, etc)'. The 'Username' is 'Insia Farhan'. The 'Password' is masked with dots. The 'ID' is 'dockerhub'. The 'Description' is empty. A 'Create' button is at the bottom.

localhost:8000/manage/credentials/store/system/domain/_/newCredentials

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

New credentials

Kind: Username with password

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

Username: Insia Farhan

☐ Treat username as secret

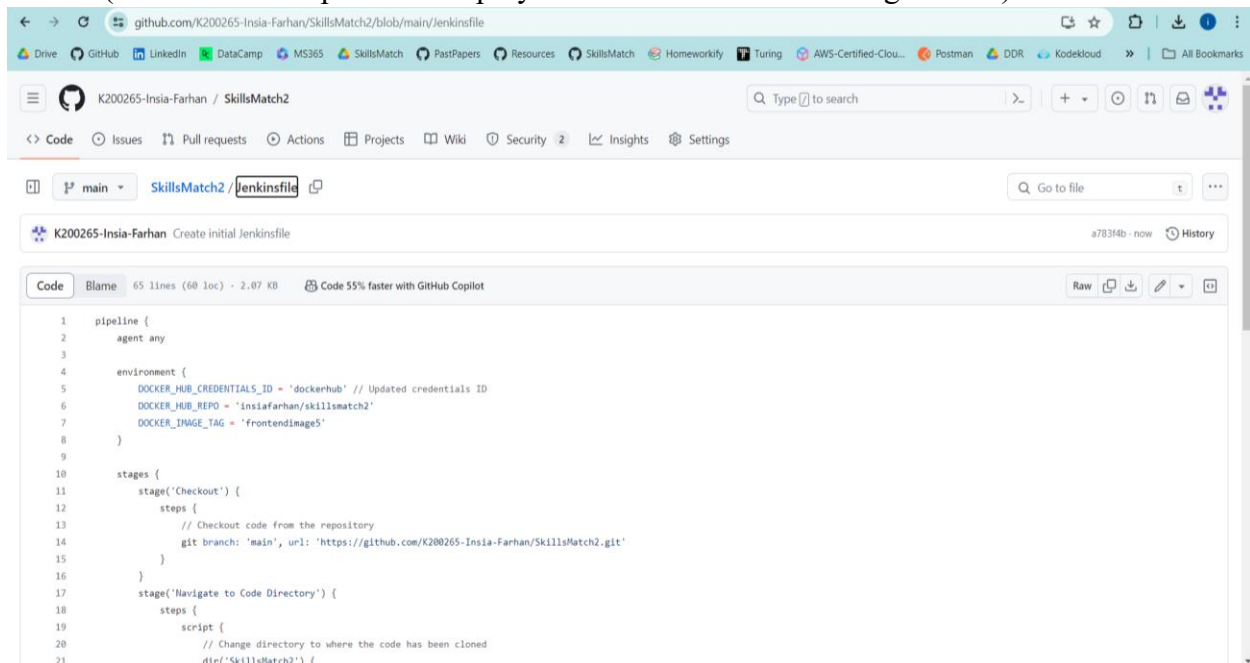
Password:

ID: dockerhub

Description:

Create

4. Create and upload Jenkinsfile, containing your yaml script, on your GitHub repository containing your code.
(This YAML script was of deployment on localhost host using docker.)



The screenshot shows a GitHub repository page for 'K200265-Insia-Farhan / SkillsMatch2'. The 'Jenkinsfile' is selected. The code is a YAML script for a Jenkins pipeline.

github.com/K200265-Insia-Farhan/SkillsMatch2/blob/main/Jenkinsfile

K200265-Insia-Farhan / SkillsMatch2

Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main SkillsMatch2/Jenkinsfile

K200265-Insia-Farhan Create initial Jenkinsfile a783f4b · now History

Code Blame 65 lines (60 loc) · 2.07 KB Code 55% faster with GitHub Copilot Raw Download Edit

```
1 pipeline {
2   agent any
3
4   environment {
5     DOCKER_HUB_CREDENTIALS_ID = 'dockerhub' // Updated credentials ID
6     DOCKER_HUB_REPO = 'insiafarhan/skillsmatch2'
7     DOCKER_IMAGE_TAG = 'frontendimage5'
8   }
9
10  stages {
11    stage('Checkout') {
12      steps {
13        // Checkout code from the repository
14        git branch: 'main', url: 'https://github.com/K200265-Insia-Farhan/SkillsMatch2.git'
15      }
16    }
17    stage('Navigate to Code Directory') {
18      steps {
19        script {
20          // Change directory to where the code has been cloned
21          dir('SkillsMatch2') {
```

5. Create new item and choose Pipeline. Do Pipeline from SCM and choose the git repository containing your Jenkinsfile. After creation, build the pipeline.

The screenshot shows the Jenkins web interface for configuring a new Pipeline item. The browser address bar indicates the URL is `localhost:8080/view/all/newJob`. The page title is "Dashboard > All >".

Enter an item name

SkillsMatch
= Required field

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.

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
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

Multibranch Pipeline
Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK **Cancel** **Clone Folder**

Configure

Definition
Pipeline script from SCM

SCM
Git

Repositories

Repository URL
`https://github.com/K200265-Insia-Farhan/SkillsMatch2.git`

Credentials
- none -

+ Add

Advanced

Add Repository

Save Apply

Configure

General
Advanced Project Options
Pipeline

Branches to build

Branch Specifier (blank for 'any')
`main`

Add Branch

Repository browser
(Auto)

Additional Behaviours
Add

Script Path
Jenkinsfile

☒ Lightweight checkout

Save Apply