

Assignment 4

You need to answer the below questions and submit the links to your repo in the below question space

Adding CI/CD

As part of Assignment 3, you added Dockerfiles to the below repos, now you need to add CI/CD to it, If you haven't already created a github repo for it, so create it under your account, add Dockerfile to it which you created as part of Assignment 3, If you didn't do Assignment 3 or are unsure of Dockerfile, so I have added Dockerfiles to my repos, you can use them.

and then add CI/CD to it which will

- Checkout Code
- Build Docker Image
- Push Docker Image to Dockerhub

You can use any CI/CD tool you want to use (Github Actions or Jenkins). Whichever tool you use, mention below and share the link to your github repo, which should contain the respective pipeline file and share screenshots of the running pipeline.

Python app: <https://github.com/kahootali/python-auth-example>

Repo Link: <https://github.com/Rayed14/python-auth-example>

Docker Hub link:

<https://hub.docker.com/repository/docker/rayed14/python-auth-example/general>

CI/CD Tool used: Github Actions

Workflow Screenshots:

Forking and cloning the repository

Ubuntu [Running] - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities Terminal Nov 28 6:17 PM

rayed@rayed: ~/Documents/DevOps/assignment4/python-auth-example

```
rayed@rayed:~/Documents/DevOps/assignment4$ git clone git@github.com:Rayed14/python-auth-example.git
Cloning into 'python-auth-example'...
remote: Enumerating objects: 26, done.
remote: Counting objects: 100% (2/2), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 26 (delta 1), reused 0 (delta 0), pack-reused 24
Receiving objects: 100% (26/26), 8.06 KiB | 825.00 KiB/s, done.
Resolving deltas: 100% (3/3), done.
rayed@rayed:~/Documents/DevOps/assignment4$ ls
python-auth-example
rayed@rayed:~/Documents/DevOps/assignment4$ cd python-auth-example/
rayed@rayed:~/Documents/DevOps/assignment4/python-auth-example$ code .
rayed@rayed:~/Documents/DevOps/assignment4/python-auth-example$
```

Setting docker hub username and password secrets

Ubuntu [Running] - Oracle VM VirtualBox

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Assignment 4 i201822 Rayed Muham... Actions secrets - Rayed Docker Hub

https://github.com/Rayed14/python-auth-example/settings/secrets/actions

Access

- Collaborators
- Moderation options

Code and automation

- Branches
- Tags
- Rules
- Actions
- Webhooks
- Environments
- Codespaces
- Pages

Security

- Code security and analysis
- Deploy keys
- Secrets and variables
- Actions
- Codespaces
- Dependabot

Integrations

- GitHub Apps
- Email notifications
- Autolink references

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets.](#) Variables are shown as plain text and are used for **non-sensitive** data. [Learn more about variables.](#)

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

Secrets Variables

Environment secrets

This repository has no environment secrets.

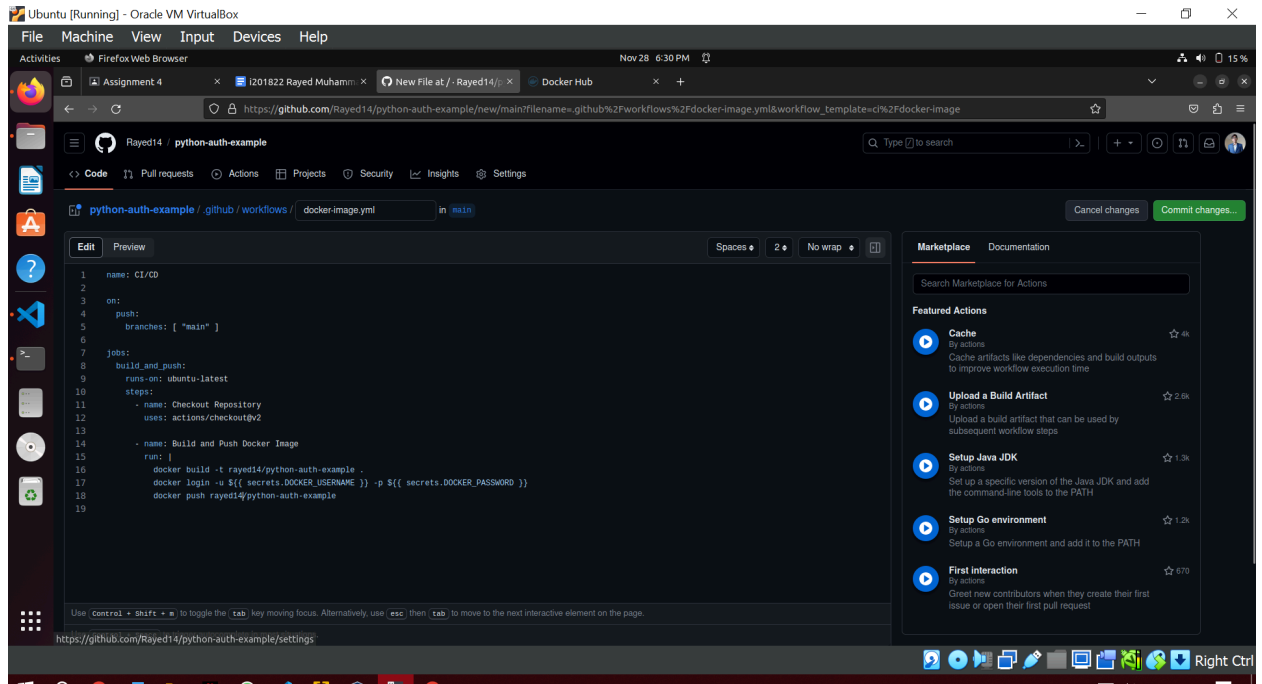
[Manage environment secrets](#)

Repository secrets

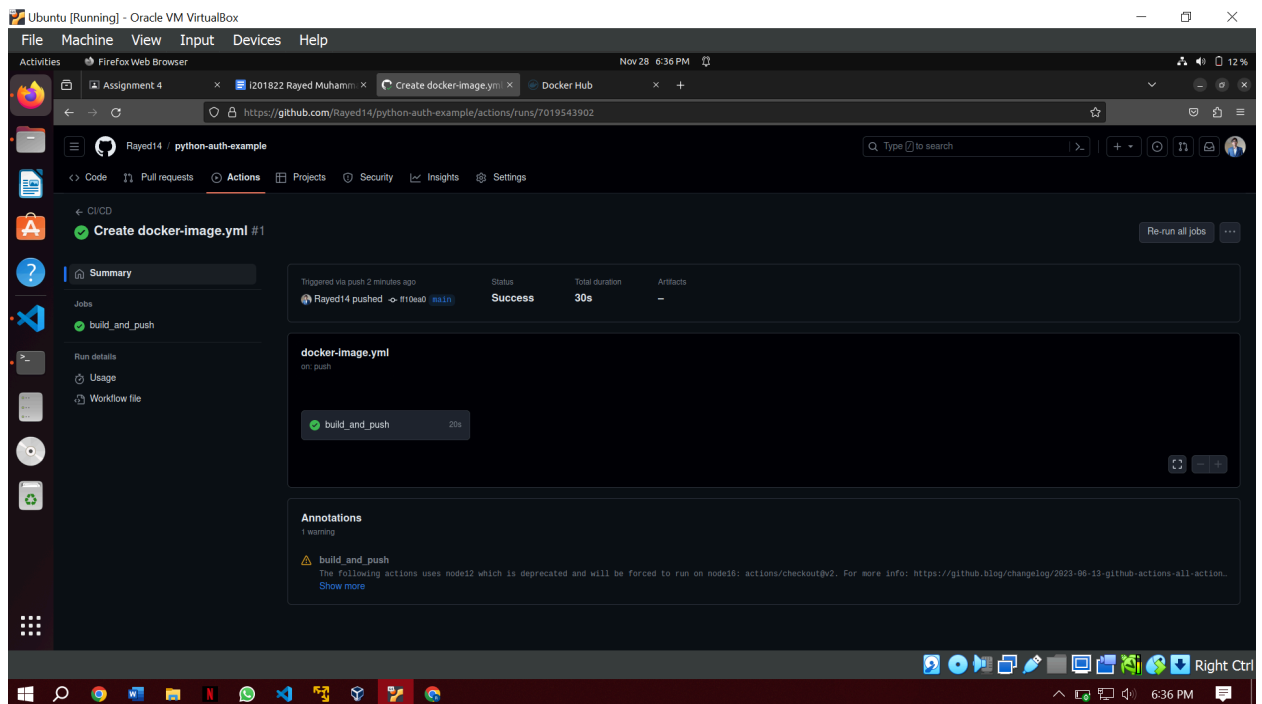
[New repository secret](#)

Name	Last updated
DOCKER_PASSWORD	now
DOCKER_USERNAME	now

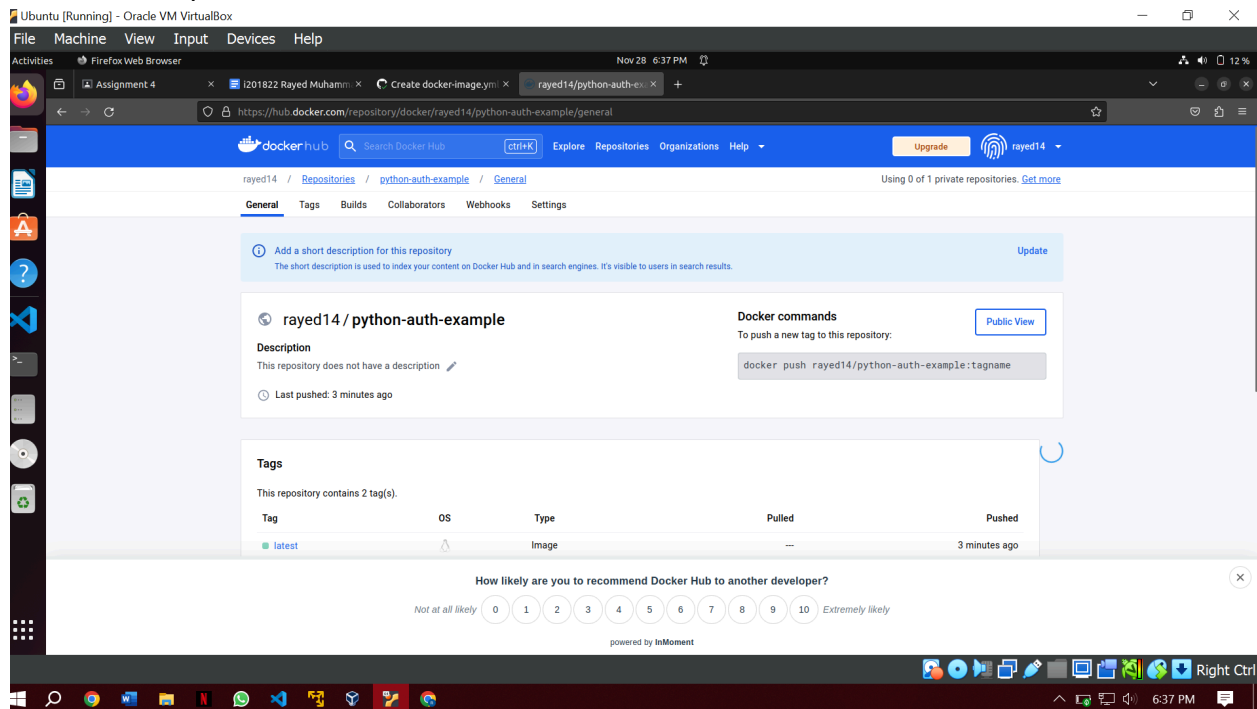
Yaml file created



Screenshot showing the success of job workflow



Docker hub repo screenshot that shows the success of the workflow



Java App using Maven as package manager:

<https://github.com/kahootali/maven-java-monitoring-example>

Repo Link: <https://github.com/Rayed14/maven-java-monitoring-example>

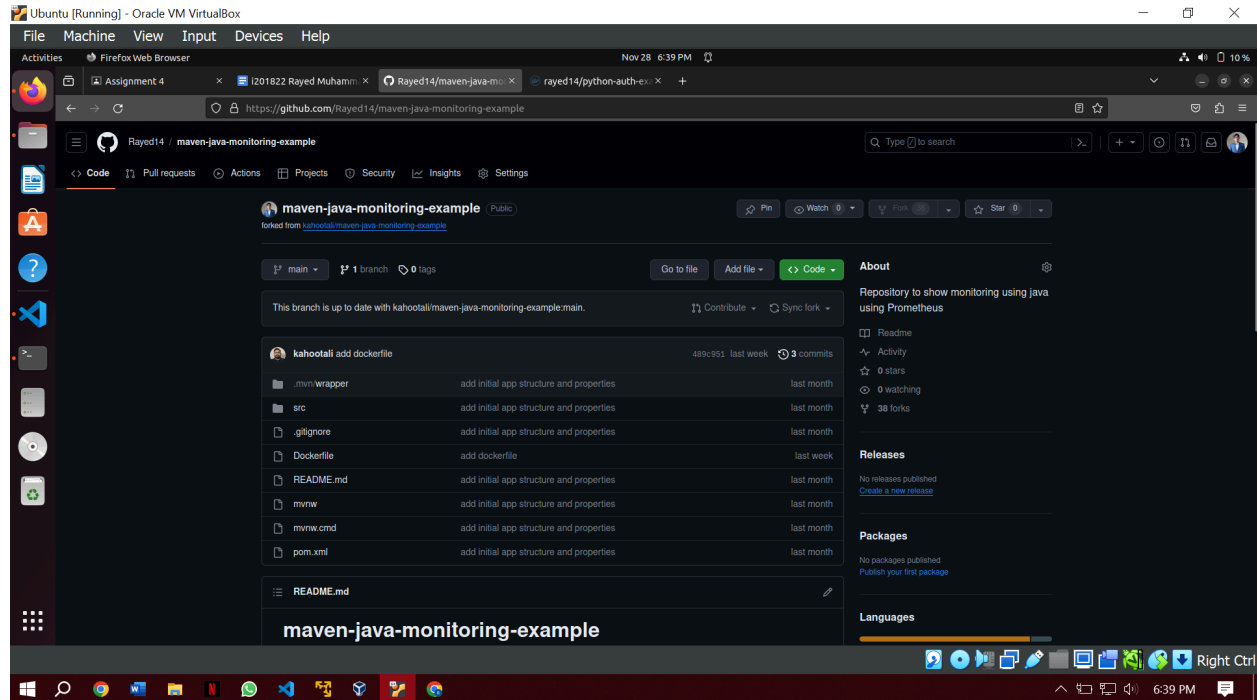
Docker Hub repo link:

<https://hub.docker.com/repository/docker/rayed14/maven-java-monitoring-example/general>

CI/CD Tool used: Github Actions

Workflow Screenshots:

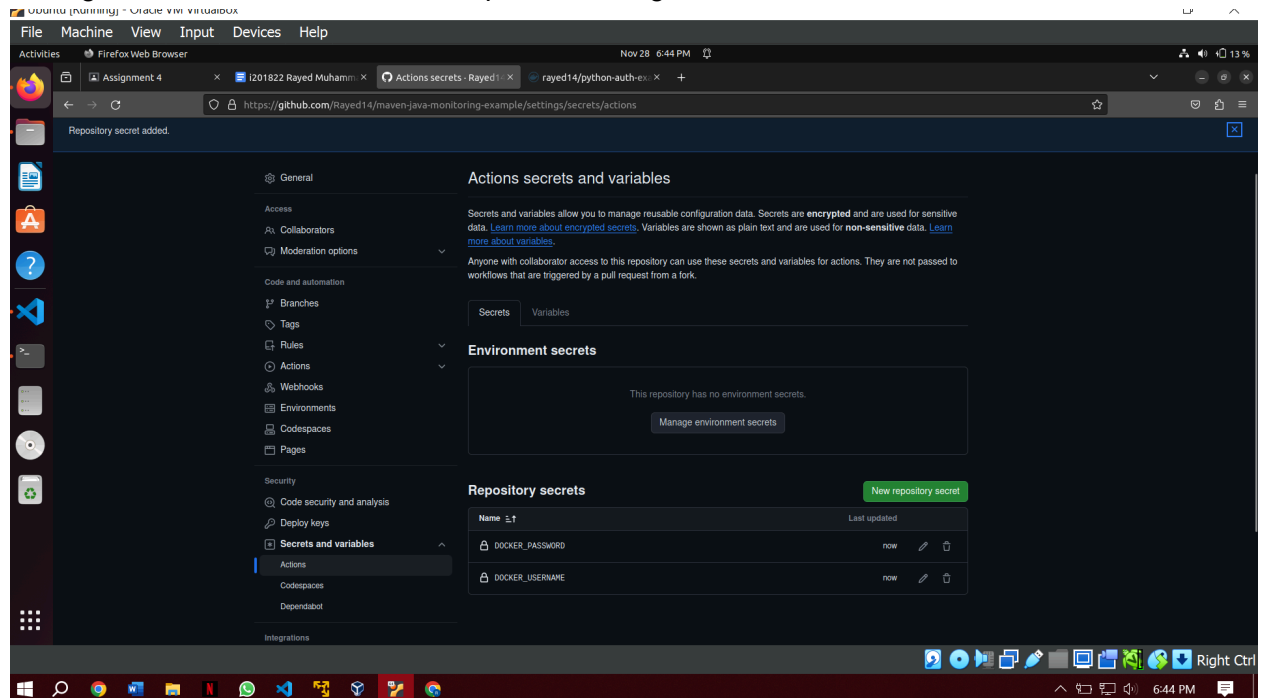
Forking of the repo



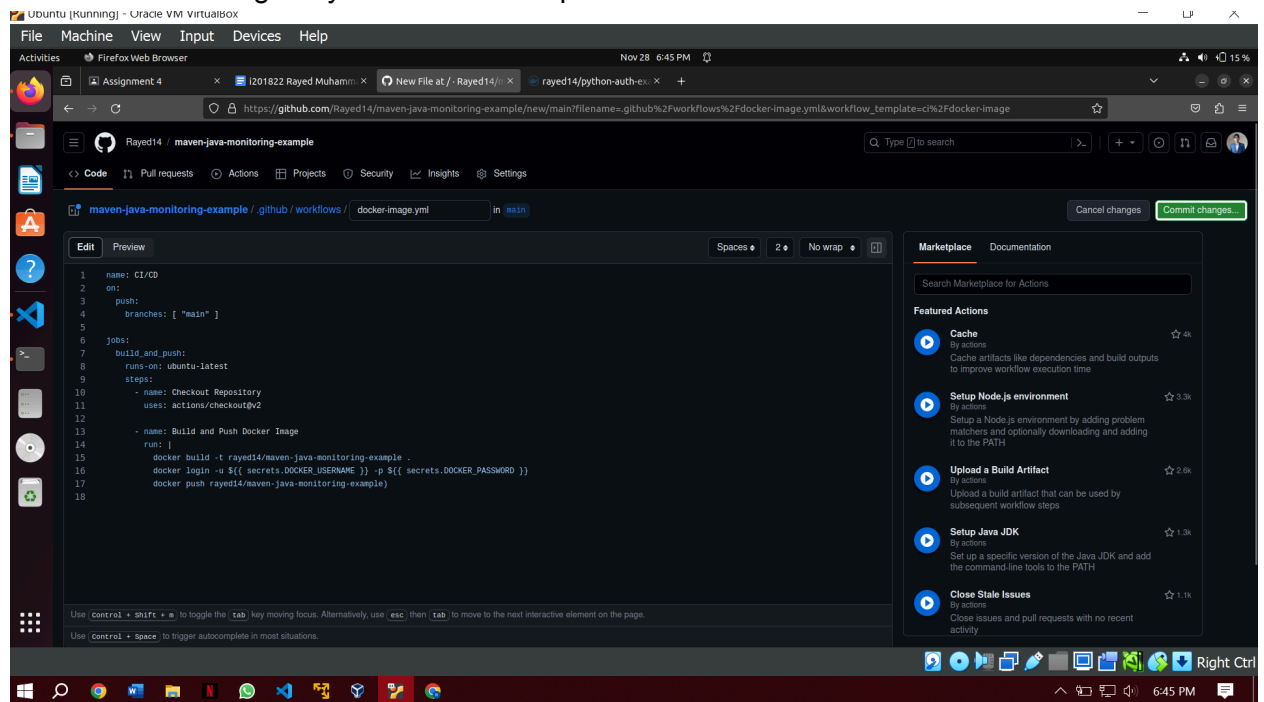
Cloning the repository and then adding the docker file

```
rayed@rayed:~/Documents/DevOps/assignment4$ git clone git@github.com:Rayed14/maven-java-monitoring-example.git
Cloning into 'maven-java-monitoring-example'...
remote: Enumerating objects: 38, done.
remote: Counting objects: 100% (2/2), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 38 (delta 1), reused 0 (delta 0), pack-reused 36
Receiving objects: 100% (38/38), 10.49 KiB | 54.00 KiB/s, done.
Resolving deltas: 100% (2/2), done.
rayed@rayed:~/Documents/DevOps/assignment4$ ls
maven-java-monitoring-example  python-auth-example
rayed@rayed:~/Documents/DevOps/assignment4$ cd ja
bash: cd: ja: No such file or directory
rayed@rayed:~/Documents/DevOps/assignment4$ cd maven-java-monitoring-example/
rayed@rayed:~/Documents/DevOps/assignment4/maven-java-monitoring-example$ ls
Dockerfile  mvnw  mvnw.cmd  pom.xml  README.md  src
rayed@rayed:~/Documents/DevOps/assignment4/maven-java-monitoring-example$
```

Adding the secrets of username and password in github actions secrets



Screenshot showing the yaml file for the repo



Showing the success of the workflow

The screenshot shows the GitHub Actions interface for a workflow named 'Update docker-image.yml #2'. The workflow is in a 'Success' state, triggered by a push from 'Rayed14' at 6:50 PM on Nov 28. The total duration of the workflow is 51 seconds. The workflow file 'docker-image.yml' is shown with a single job 'build_and_push' that completed successfully in 43 seconds. An annotation indicates that the workflow uses a deprecated action (model2) which will be forced to run on model1 (actions/checkout@v2) in the future.

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Activities Firefox Web Browser Nov 28 6:50 PM 18%

Assignment 4 x i201822 Rayed Muham x Update docker-image.yml x Docker Hub x +

https://github.com/Rayed14/maven-java-monitoring-example/actions/runs/7019720319

Rayed14 / maven-java-monitoring-example

Code Pull requests Actions Projects Security Insights Settings

CI/CD

Update docker-image.yml #2 Re-run all jobs ...

Summary

Jobs

build_and_push

Run details

Usage

Workflow file

Annotations

1 warning

build_and_push

The following actions uses model2 which is deprecated and will be forced to run on model1: actions/checkout@v2. For more info: <https://github.blog/changelog/2023-06-13-github-actions-all-action->

Show more

Right Ctrl

6:50 PM

Docker hub image showing the repo and hence showing the success of the workflow

The screenshot shows the Docker Hub repository page for 'rayed14/maven-java-monitoring-example'. The repository is public and has two tags: 'latest' and 'v1.0'. The 'latest' tag was pushed a minute ago, and the 'v1.0' tag was pushed 24 days ago. The page also displays Docker commands for pushing a new tag and information about automated builds.

File Machine View Input Devices Help

Activities Firefox Web Browser Nov 28 6:51 PM 18%

Assignment 4 x i201822 Rayed Muham x Update docker-image.yml x rayed14/maven-java-mon x +

https://hub.docker.com/repository/docker/rayed14/maven-java-monitoring-example/general

dockerhub

Search Docker Hub

Explore Repositories Organizations Help

Upgrade

rayed14

Repositories / maven-java-monitoring-example / General

Using 0 of 1 private repositories. [Get more](#)

General Tags Builds Collaborators Webhooks Settings

Add a short description for this repository

The short description is used to index your content on Docker Hub and in search engines. It's visible to users in search results.

Update

rayed14 / maven-java-monitoring-example

Description

This repository does not have a description.

Last pushed: a few seconds ago

Docker commands

To push a new tag to this repository:

```
docker push rayed14/maven-java-monitoring-example:tagname
```

Public View

Tags

This repository contains 2 tag(s).

Tag	OS	Type	Pulled	Pushed
latest	linux	Image	—	a minute ago
v1.0	linux	Image	24 days ago	25 days ago

[See all](#) [Go to Advanced Image Management](#)

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. [Read more about automated builds](#).

Upgrade

Right Ctrl

6:51 PM