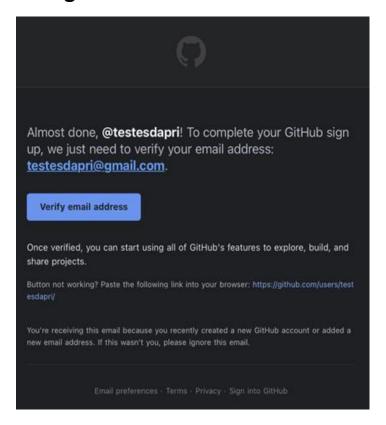
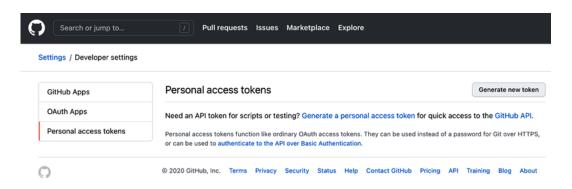
## **Chapter 1: Learning the Foundations for GitHub Actions.**





### Settings / Developer settings

GitHub Apps
OAuth Apps
Personal access tokens

### New personal access token

Personal access tokens function like ordinary OAuth access tokens. They can be used instead of a password for Git over HTTPS, or can be used to authenticate to the API over Basic Authentication.

### Note

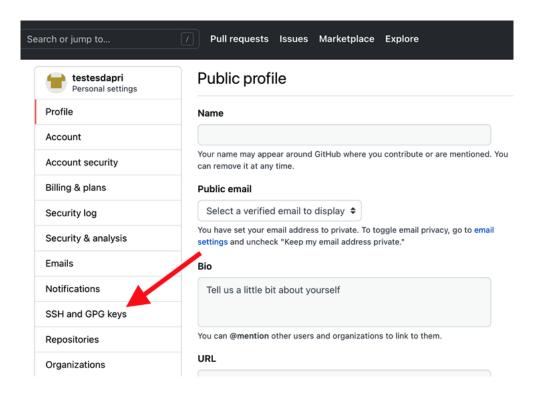
GitHub Actions PAT

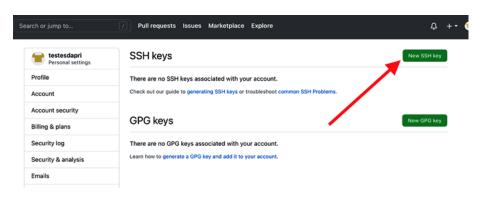
What's this token for?

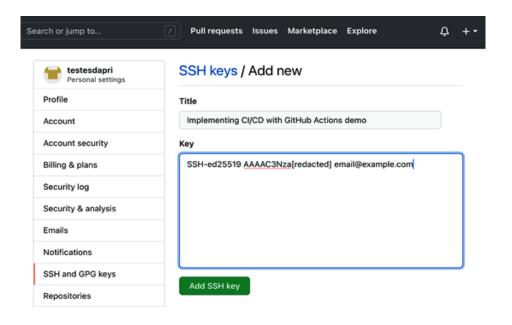
### Select scopes

Scopes define the access for personal tokens. Read more about OAuth scopes.

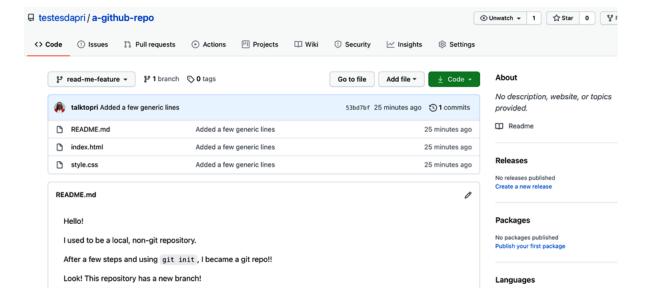
| ✓ repo           | Full control of private repositories                                |
|------------------|---|
| repo:status      | Access commit status  |
| repo_deployment  | Access deployment status  |
| public_repo      | Access public repositories  |
| repo:invite      | Access repository invitations                                       |
| security_events  | Read and write security events                                      |
| workflow         | Update github action workflows                                      |
| write:packages   | Upload packages to github package registry                          |
| read:packages    | Download packages from github package registry                      |
| delete:packages  | Delete packages from github package registry                        |
| admin:org        | Full control of orgs and teams, read and write org projects         |
| write:org        | Read and write org and team membership, read and write org projects |
| read:org         | Read org and team membership, read org projects                     |
| admin:public_key | Full control of user public keys                                    |
| write:public_key | Write user public keys  |
| read:public_key  | Read user public keys   |
| admin:repo_hook  | Full control of repository hooks                                    |
| write:repo_hook  | Write repository hooks  |
| read:repo_hook   | Read repository hooks   |
| admin:org_hook   | Full control of organization hooks                                  |
| gist             | Create gists  |
| notifications    | Access notifications  |
| user             | Update all user data  |
| read:user        | Read all user profile data  |
| user:email       | Access user email addresses (read-only)                             |
| user:follow      | Follow and unfollow users   |

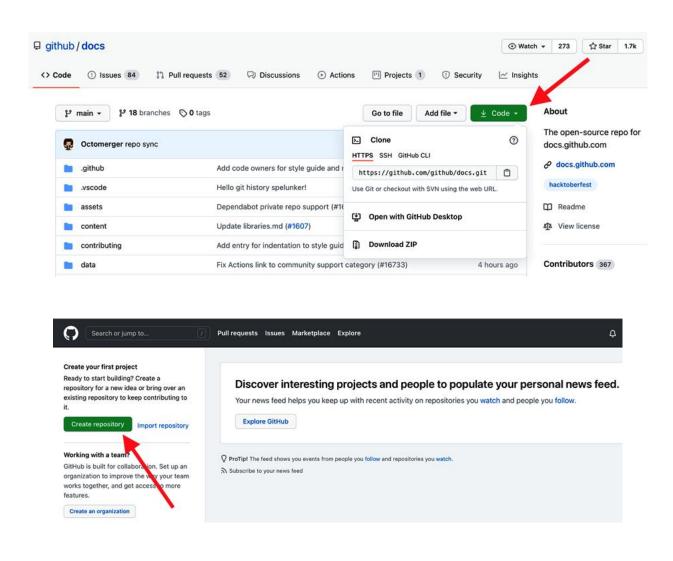


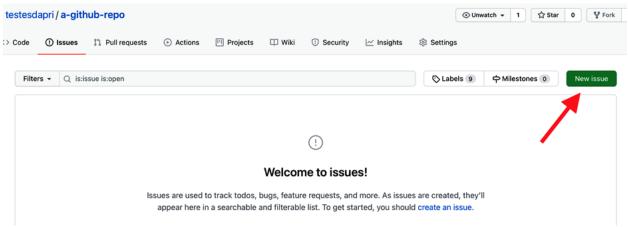


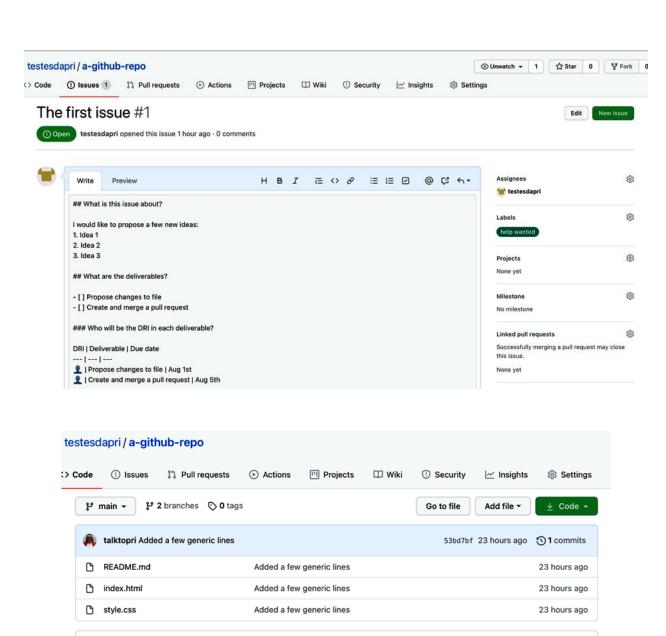












0

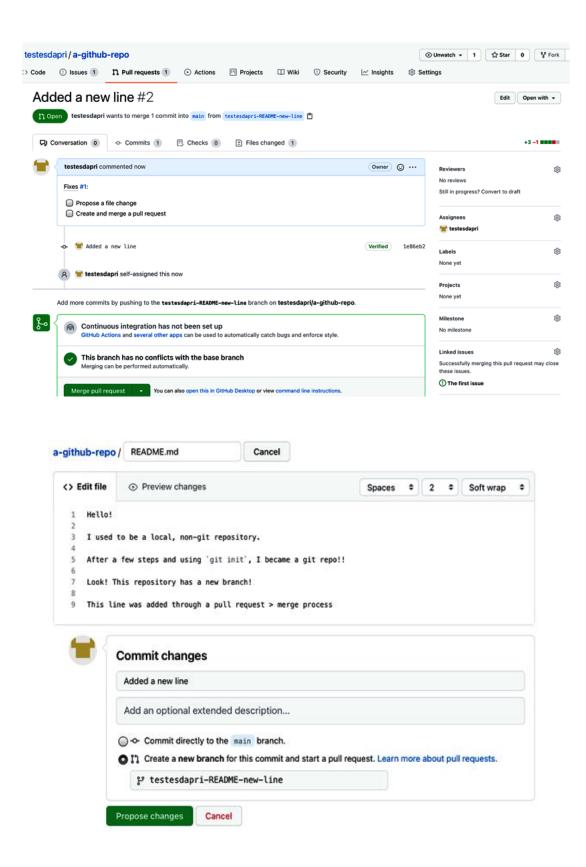
README.md

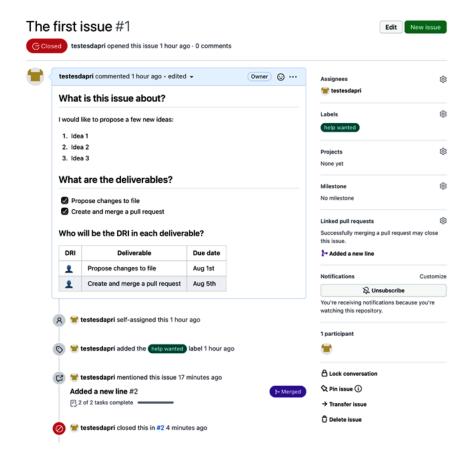
I used to be a local, non-git repository.

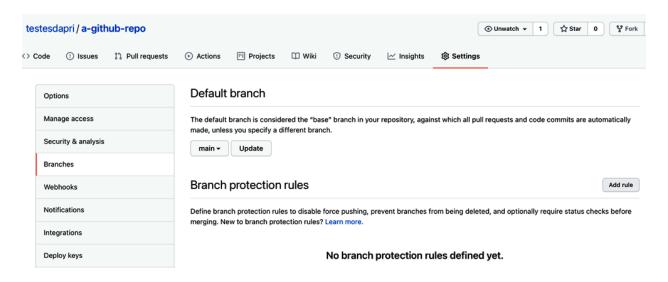
Look! This repository has a new branch!

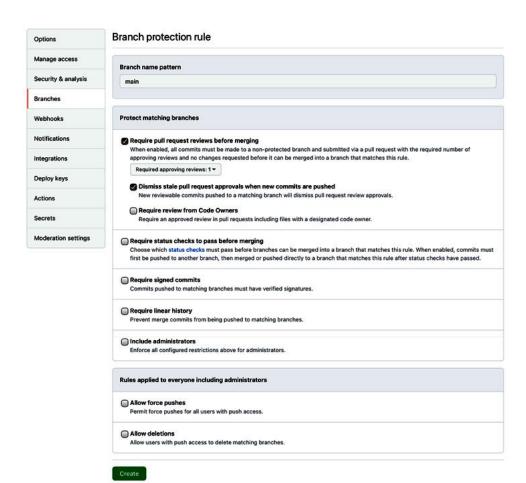
After a few steps and using git init, I became a git repo!!

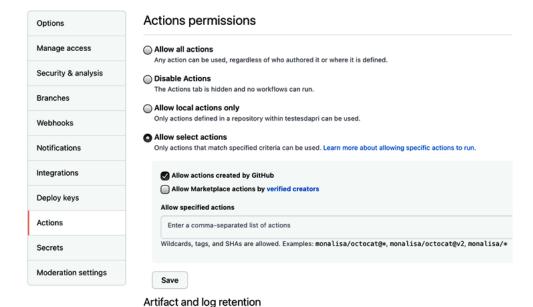
Hello!











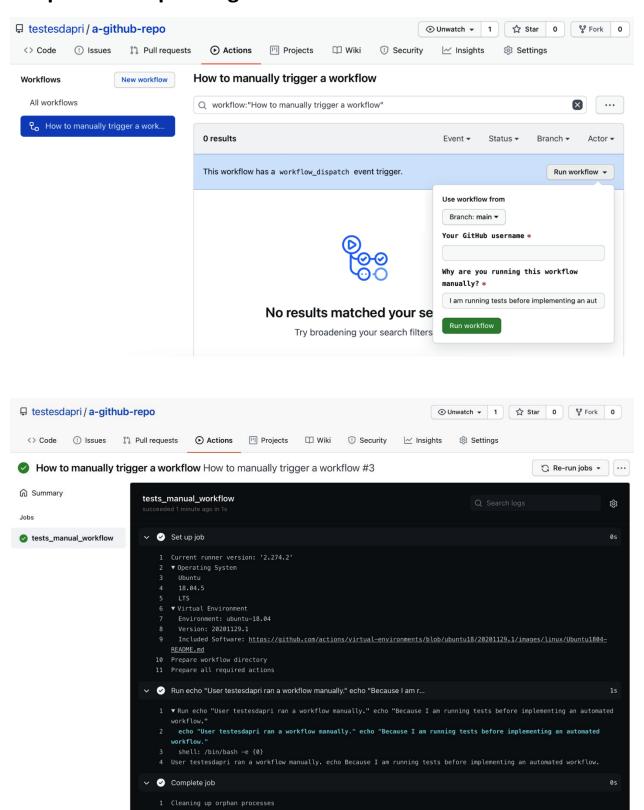
This is the duration that artifacts and logs will be retained.

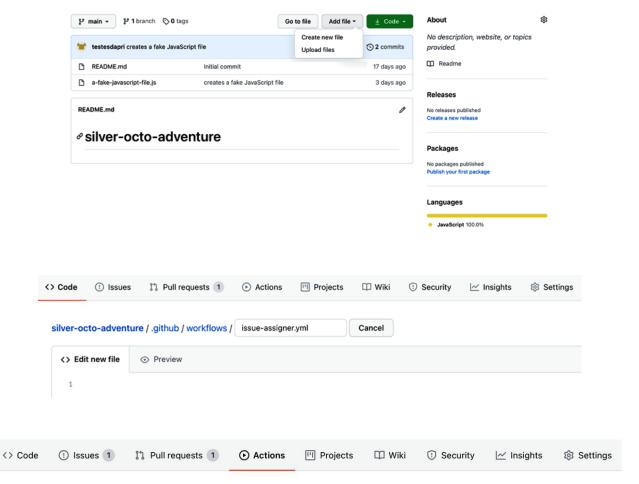
Save

90

days

## **Chapter 2: Deep Diving into GitHub Actions.**



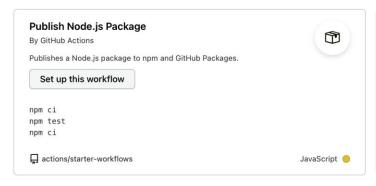


### Choose a workflow template

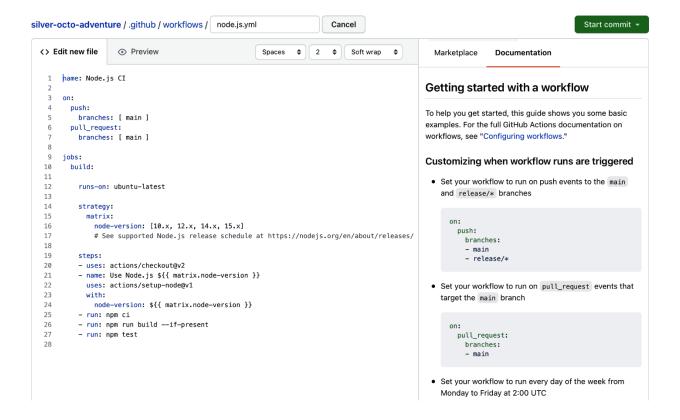
Build, test, and deploy your code. Make code reviews, branch management, and issue triaging work the way you want. Select a workflow template to get started.

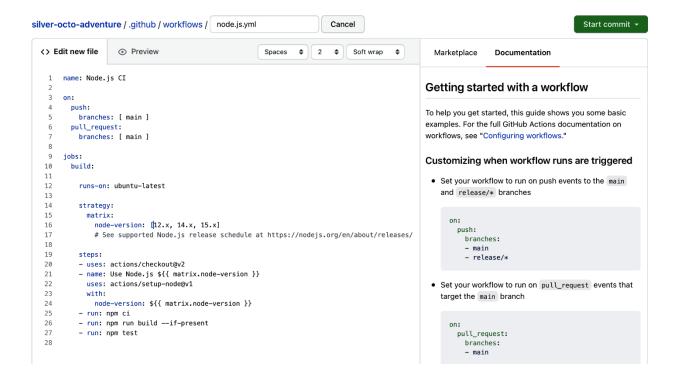
Skip this and set up a workflow yourself →

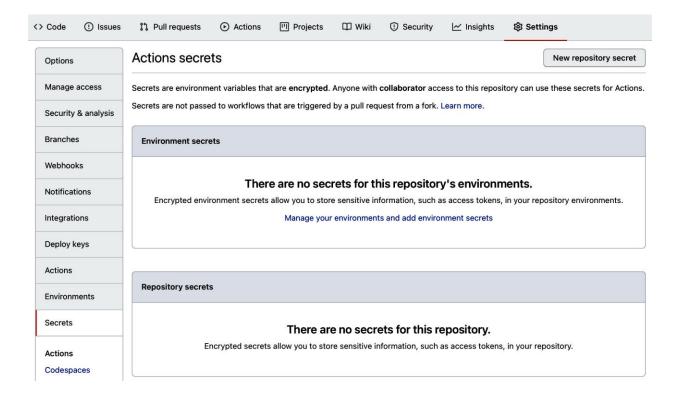
### Workflows made for your JavaScript repository (Suggested)

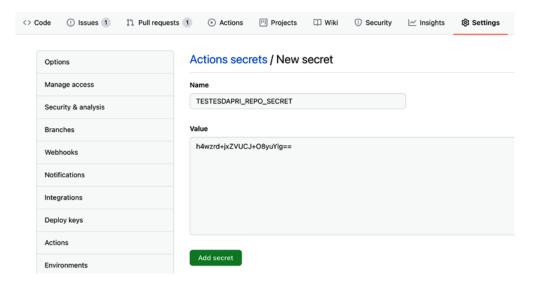


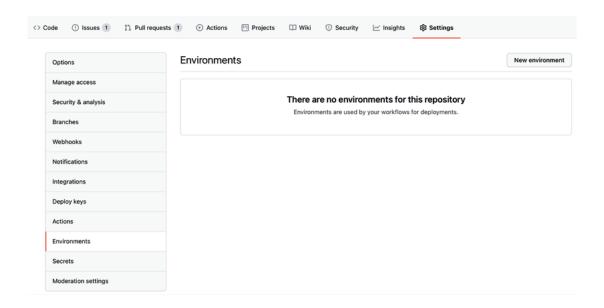


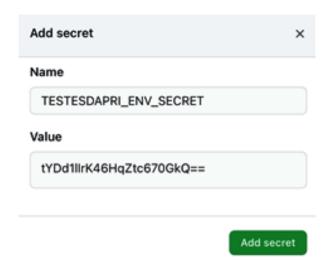


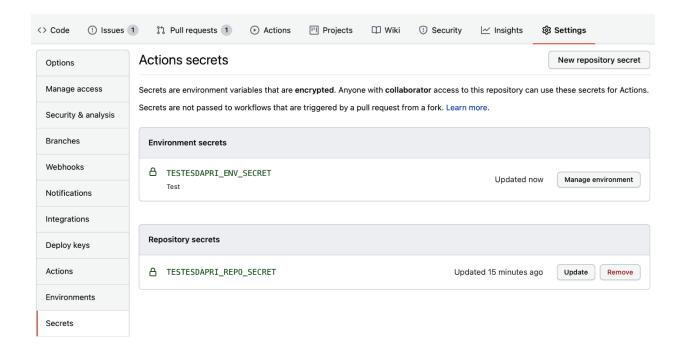




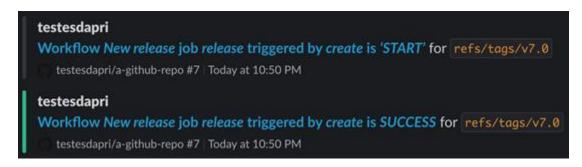




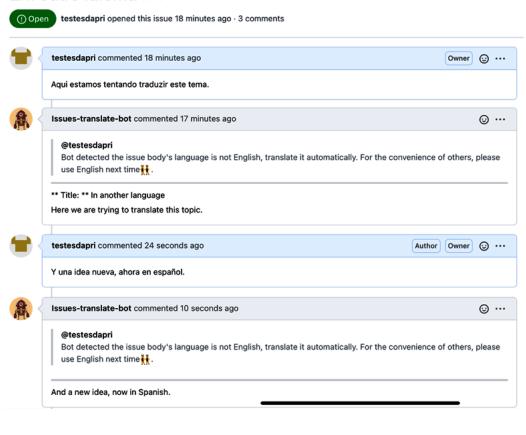




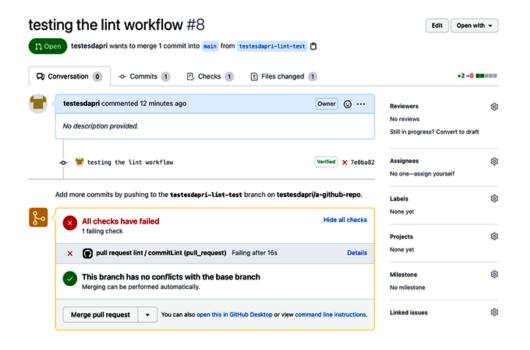
## Chapter 3: A Closer Look at Workflows.

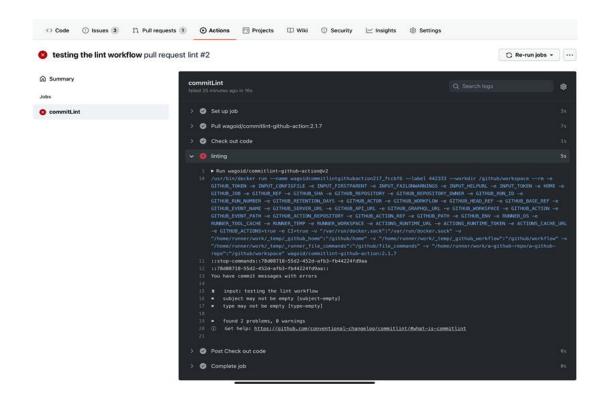


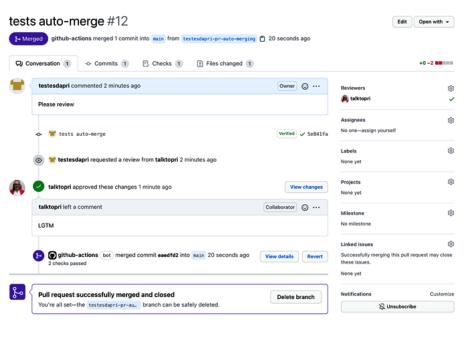
### Em outro idioma #4

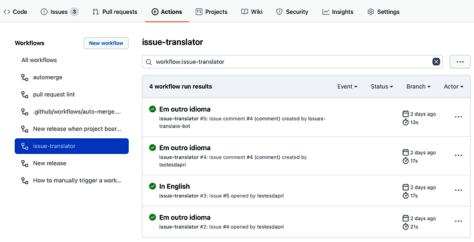


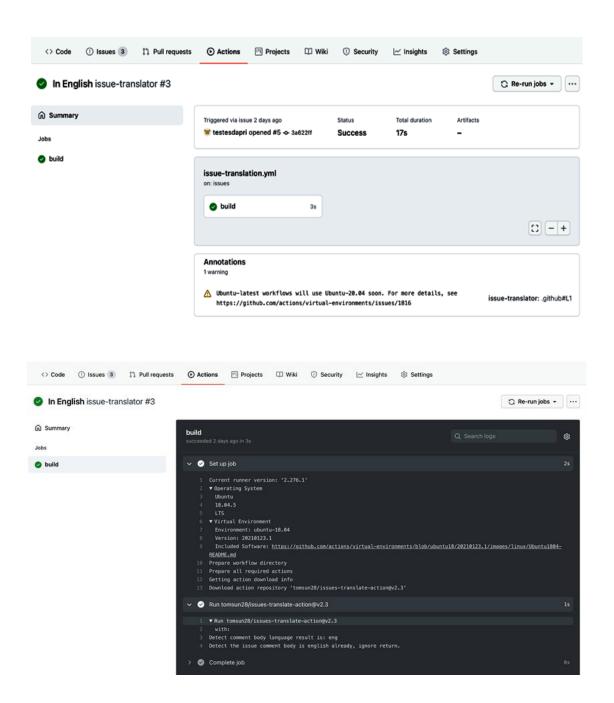


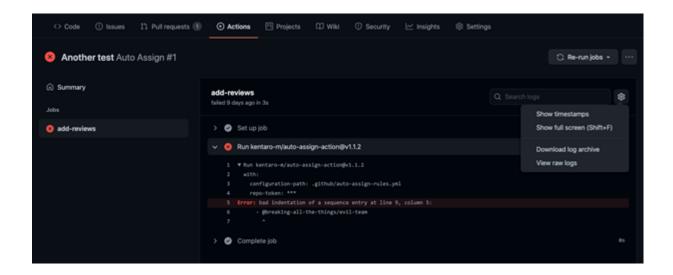


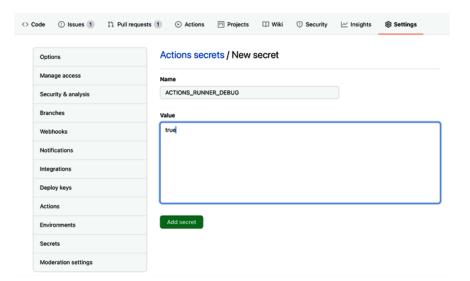


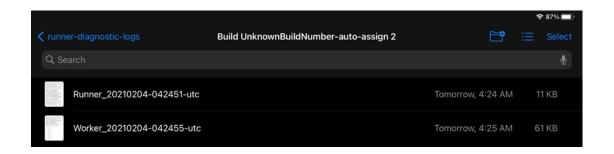




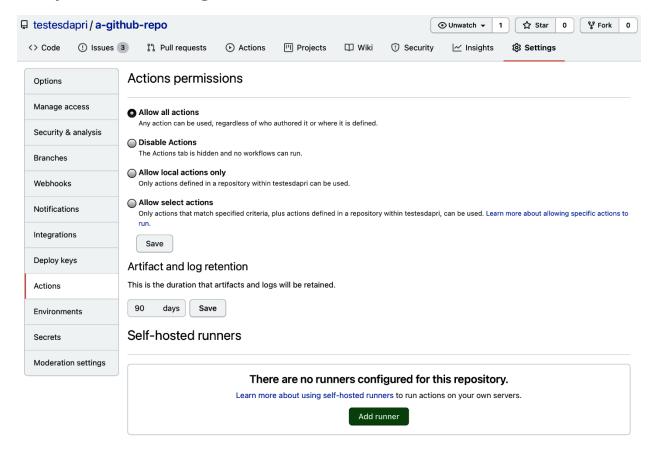


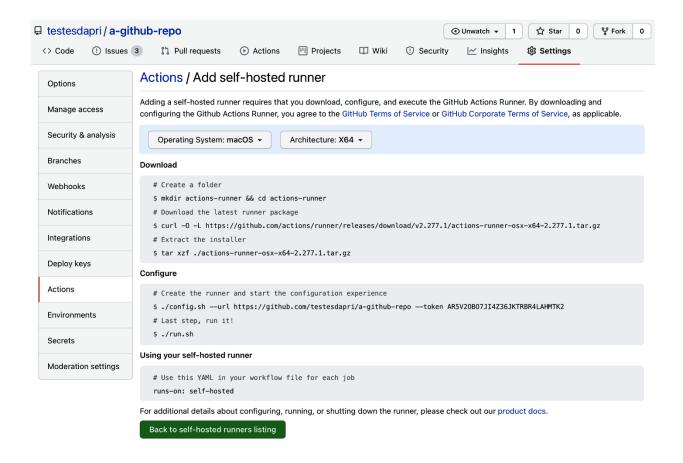






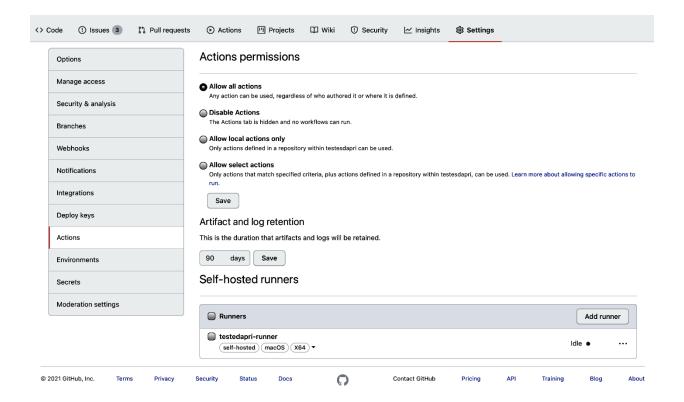
## **Chapter 4: Working with Self-Hosted Runners.**





```
testesdapri ~/Desktop: $ mkdir actions-runner && cd actions-runner
testesdapri ~/Desktop/actions-runner: $ curl -o actions-runner-osx-x64-2.278.0.tar.gz -L https://
github.com/actions/runner/releases/download/v2.278.0/actions-runner-osx-x64-2.278.0.tar.gz
            % Received % Xferd Average Speed
                                                                 Time Current
 % Total
                                                Time
                                                        Time
                                Dload Upload
                                                Total
                                                        Spent
                                                                 Left Speed
      645 100
                645
                       0
100
                             a
                                  244
                                           0 0:00:02 0:00:02 --:--
                                                                         244
          100 48.7M
                                2106k
100 48.7M
                             0
                                           0
                                              0:00:23
                                                       0:00:23 --:--:-
                                                                       2036k
```

```
testesdapri ~/Desktop/actions-runner: $ tar xzf ./actions-runner-osx-x64-2.277.1.tar.gz
testesdapri ~/Desktop/actions-runner: $ 1s -1
total 100776
             1 talktopri
                          staff 51126670 Feb 27 22:50 actions-runner-osx-x64-2.277.1.tar.gz
-rw-r--r--
drwxr-xr-x
           231 talktopri
                          staff
                                      7392 Feb 9 13:51 bin
                                      2452 Feb 9 13:49 config.sh
-rwxr-xr-x
             1 talktopri
                          staff
                          staff
-rwxr-xr-x
             1 talktopri
                                      646 Feb 9 13:49 env.sh
                                       96 Feb 9 13:50 externals
             3 talktopri
drwxr-xr-x
                          staff
                                      1598 Feb 9 13:49 run.sh
-rwxr-xr-x
             1 talktopri
                          staff
```



```
|testesdapri ~/Desktop/actions-runner: $ ./svc.sh install
Creating launch runner in /Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Creating /Users/talktopri/Library/Logs/actions.runner.testesdapri-a-github-repo.testedapri-runner
Creating /Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Creating runsvc.sh
Creating .service
svc install complete
```

```
[testesdapri ~/Desktop/actions-runner: $ ./svc.sh start
    starting actions.runner.testesdapri-a-github-repo.testedapri-runner
    status actions.runner.testesdapri-a-github-repo.testedapri-runner:
    /Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Started:
62978 0 actions.runner.testesdapri-a-github-repo.testedapri-runner
```

```
[testesdapri ~/Desktop/actions-runner: $ ./svc.sh status
status actions.runner.testesdapri-a-github-repo.testedapri-runner:
/Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Started:
- 126 actions.runner.testesdapri-a-github-repo.testedapri-runner
```

```
testesdapri ~/Desktop/actions-runner: $ ./svc.sh stop
stopping actions.runner.testesdapri-a-github-repo.testedapri-runner
status actions.runner.testesdapri-a-github-repo.testedapri-runner:
/Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Stopped
```

```
testesdapri ~/Desktop/actions-runner: $ ./svc.sh uninstall
uninstalling actions.runner.testesdapri-a-github-repo.testedapri-runner
stopping actions.runner.testesdapri-a-github-repo.testedapri-runner
/Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.
/Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.
/Users/talktopri/Library/LaunchAgents/actions.runner.testesdapri-a-github-repo.testedapri-runner.plist
Stopped

testesdapri ~/Desktop/actions-runner: $ ./svc.sh status
status actions.runner.testesdapri-a-github-repo.testedapri-runner:
not installed
```

```
√ Connected to GitHub

# Runner Registration

[Enter the name of runner: [press Enter for Priscilas-MBP] testesdapri-runner

This runner will have the following labels: 'self-hosted', 'macOS', 'X64'

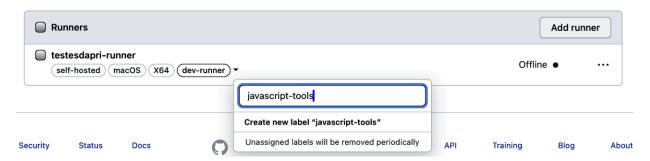
[Enter any additional labels (ex. label-1,label-2): [press Enter to skip] dev-runner

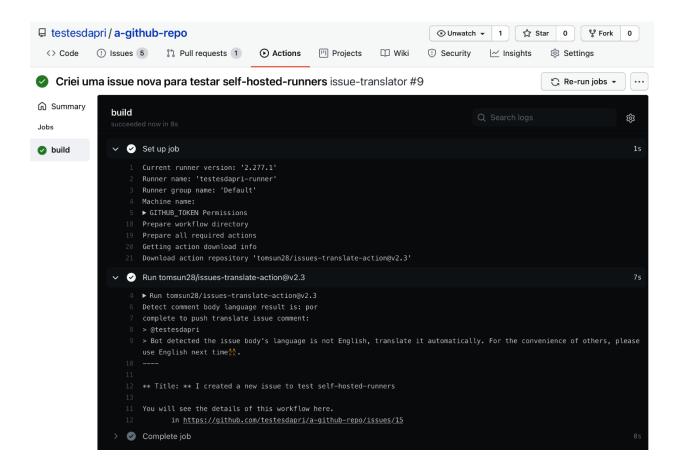
√ Runner successfully added

√ Runner connection is good

# Runner settings
```



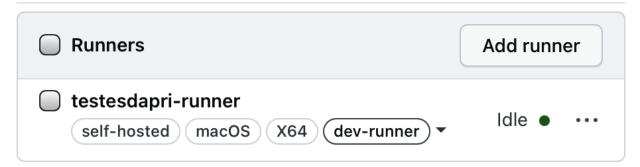




```
√ Connected to GitHub

2021-03-01 00:42:25Z: Listening for Jobs
2021-03-01 00:43:13Z: Running job: build
2021-03-01 00:43:29Z: Job build completed with result: Succeeded
2021-03-01 00:43:35Z: Running job: build
2021-03-01 00:43:50Z: Job build completed with result: Succeeded
```







```
testesdapri ~/Desktop/actions-runner: $ ls -l
total 101584
drwxr-xr-x
                     7 talktopri staff
                                                          224 Feb 28 19:48 _diag
drwxr-xr-x
                   7 talktopri staff
                                                        224 Feb 28 19:48 _work
                   1 talktopri staff 51126670 Feb 28 19:45 actions-runner-osx-x64-2.277.1.tar.gz
-rw-r--r--
drwxr-xr-x 231 talktopri staff 7392 Feb 9 13:51 bin
                                                       2452 Feb 9 13:49 config.sh
646 Feb 9 13:49 env.sh
96 Feb 9 13:50 externals
1598 Feb 9 13:49 run.sh
-rwxr-xr-x 1 talktopri staff
-rwxr-xr-x 1 talktopri staff
drwxr-xr-x 3 talktopri staff
-rwxr-xr-x 1 talktopri staff
-rwxr-xr-x 1 talktopri staff
drwxr-xr-x
                                                         3276 Feb 28 19:46 svc.sh
testesdapri ~/Desktop/actions-runner: $ ls -l _diag/
total 344
 -rw-r--r-- 1 talktopri staff 18461 Feb 28 19:46 Runner_20210301-014601-utc.log
-rw-r--r-- 1 talktopri staff 16912 Feb 28 19:48 Runner_20210301-014642-utc.log

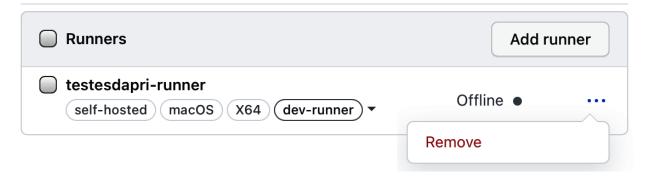
-rw-r--r-- 1 talktopri staff 63977 Feb 28 19:47 Worker_20210301-014741-utc.log

-rw-r--r-- 1 talktopri staff 69201 Feb 28 19:48 Worker_20210301-014804-utc.log

drwxr-xr-x 2 talktopri staff 64 Feb 28 19:48 pages
```

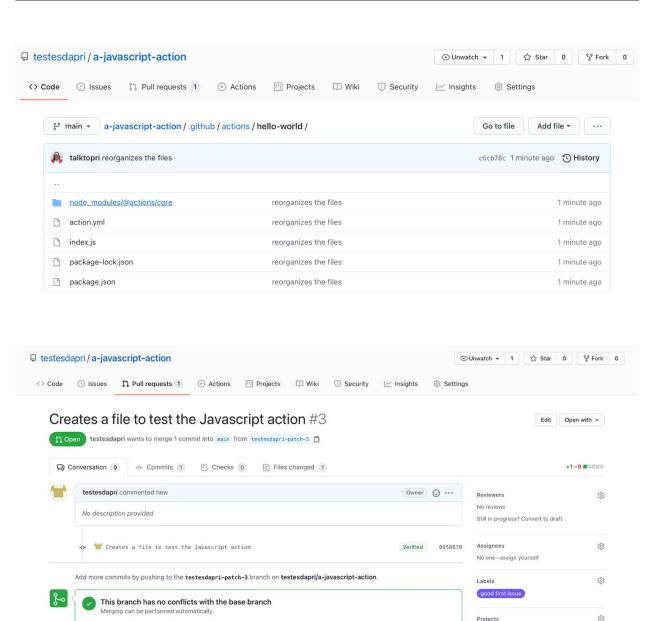
```
[2021-03-01 01:47:51Z INFO JobExtension] Initialize Env context
[2021-03-01 01:47:51Z INFO JobExtension] Initialize steps context
[2021-03-01 01:47:51Z INFO JobExtension] Total accessible running process: 341.
[2021-03-01 01:47:51Z INFO JobRunner] Job result after all job steps finish: Succeeded
[2021-03-01 01:47:51Z INFO JobRunner] Completing the job execution context.
[2021-03-01 01:47:51Z INFO JobRunner] Shutting down the job server queue.
[2021-03-01 01:47:51Z INFO JobServerQueue] Fire signal to shutdown all queues.
[2021-03-01 01:47:51Z INFO JobServerQueue] All queue process task stopped.
```

```
| 12921-93-91 01:46:02Z INFO Terminal] WHITE LINE:
| 12921-93-91 01:46:02Z INFO ConfigurationManager] ConfigureAsync
| 12921-93-91 01:46:02Z INFO ConfigurationStore] IsOonfigured:
| 12921-93-91 01:46:02Z INFO ConfigurationStore] IsOonfigured:
| 12921-93-91 01:46:02Z INFO CommandSettings] Arg 'url': 'https://github.com/testesdapri/a-github-repo'
| 12921-93-91 01:46:02Z INFO CommandSettings] Arg 'url': 'https://github.com/testesdapri/a-github-repo'
| 12921-93-91 01:46:02Z INFO CommandSettings] Arg 'url': 'https://github.com/testesdapri/a-github-repo'
| 12921-93-91 01:46:02Z INFO CommandSettings] Arg 'token': '***
| 12921-93-91 01:46:02
```



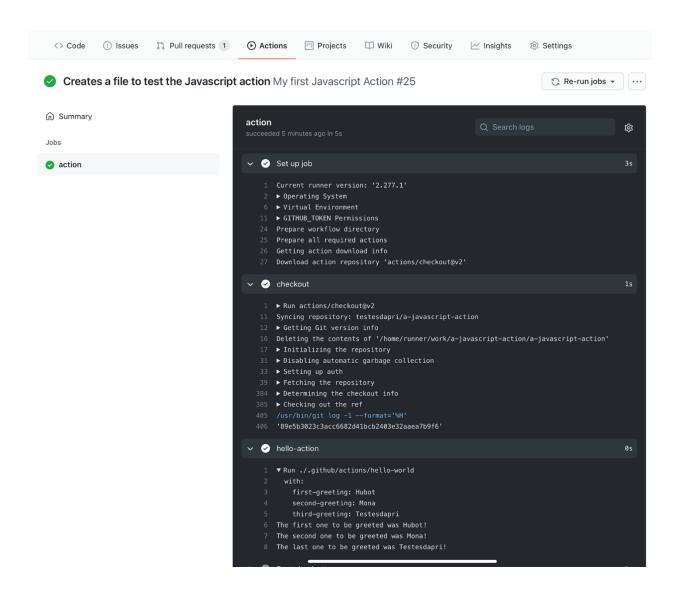
## **Chapter 5: Writing Your Own Actions.**

```
testesdapri ~/Desktop: $ git clone https://github.com/testesdapri/a-javascript-action.git Cloning into 'a-javascript-action'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (3/3), done.
testesdapri ~/Desktop: $ cd a-javascript-action/
testesdapri ~/Desktop/a-javascript-action: $ npm init -y
Wrote to /Users/talktopri/Desktop/a-javascript-action/package.json:
```



Merge pull request 

You can also open this in GitHub Desktop or view command line instructions.



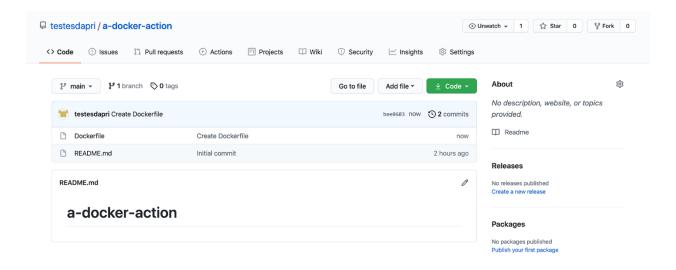
```
|testesdapri ~/Desktop: $ git clone https://github.com/testesdapri/a-docker-action.git
| Cloning into 'a-docker-action'...
| remote: Enumerating objects: 3, done.
| remote: Counting objects: 100% (3/3), done.
| remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
| Unpacking objects: 100% (3/3), done.
|testesdapri ~/Desktop: $ cd a-docker-action/
```

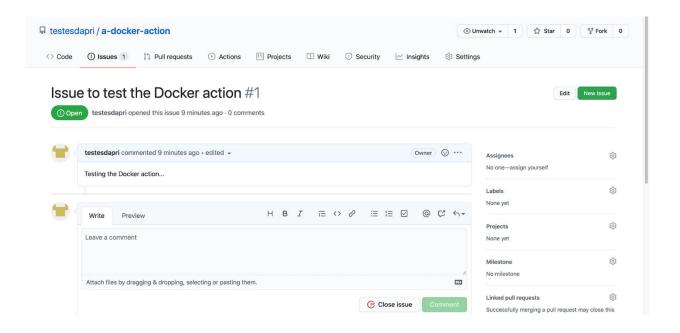
## 

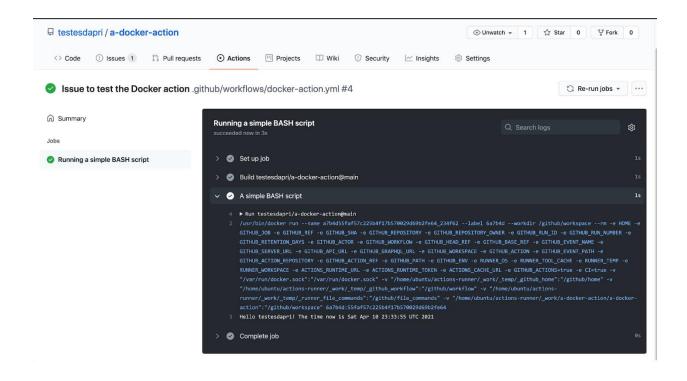
```
ubuntu@ip-172-31-29-4:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
b8dfde127a29: Pull complete
Digest: sha256:308866a43596e83578c7dfa15e27a73011bdd402185a84c5cd7f32a88b501a24
Status: Downloaded newer image for hello-world:latest
Hello from Docker!
This message shows that your installation appears to be working correctly.
```

√ Settings Saved.

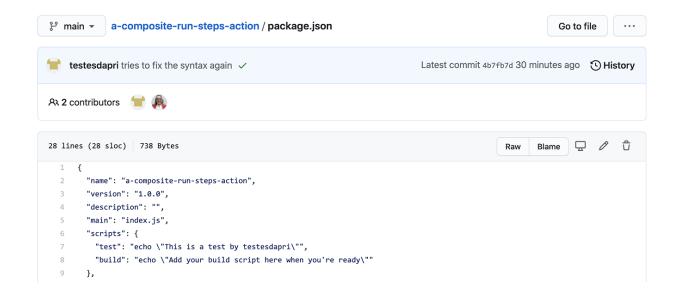
ubuntu@ip-172-31-29-4:~/actions-runner\$ ./run.sh

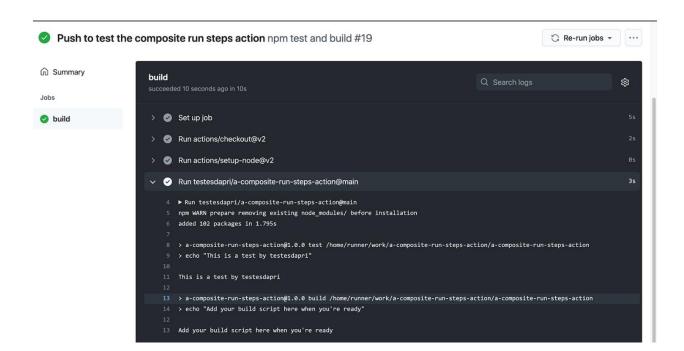




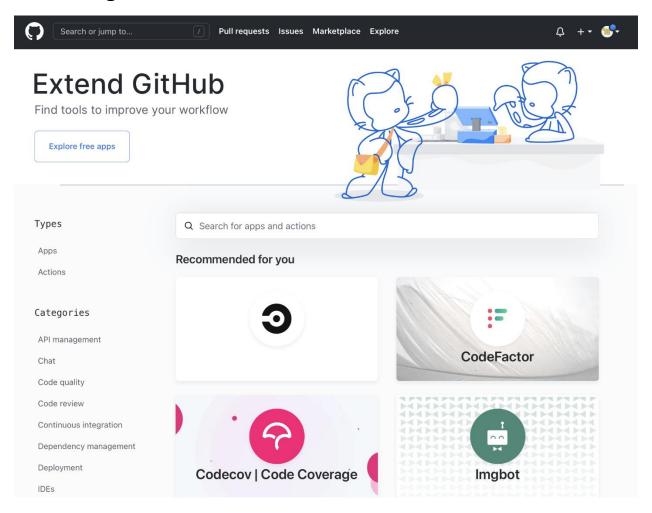


```
testesdapri ~/Desktop: $ git clone https://github.com/testesdapri/a-composite-run-steps-action.git Cloning into 'a-composite-run-steps-action'...
remote: Enumerating objects: 11, done.
remote: Counting objects: 100% (11/11), done.
remote: Compressing objects: 100% (8/8), done.
remote: Total 11 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (11/11), done.
testesdapri ~/Desktop: $ cd a-composite-run-steps-action/
testesdapri ~/Desktop/a-composite-run-steps-action: $ npm init -y
Wrote to /Users/talktopri/Desktop/a-composite-run-steps-action/package.json:
```





# Chapter 6: Marketplace – Finding Existing Actions and Publishing Your Own.



Types

Apps

Actions

Categories

API management

Chat

Code quality

Code review

Continuous integration

Dependency management ×

Deployment

IDEs

Learning

Localization

Mobile

Monitoring

Project management

Publishing

Recently added

Security

Support

Testing

Utilities

Q Search for apps and actions

### **Dependency management**

Secure and manage your third-party dependencies.

374 results filtered by Dependency management x



### Licensebat

By Licensebat Effortless dependency compliance with your license policies



### Debricked

By Debricked ② Automatically identify, fix and prevent vulnerabilities in your open source dependencies



### **Dpulls**

By Dpulls 💮 Mark a pull request as depending on



### Deadpendency

By Deadpendency Automated dependency project health analysis



### Dependabot Preview 📀

By GitHub Automated dependency updates for Ruby, JavaScript, Python, Go, PHP, Elixir, Rust, Java and .NET



### Depfu ⊘

By Depfu Automated dependency updates done right



### Renovate 🔗

By Renovate Bot Keep dependencies up-to-date with automated Pull Requests



### **Setup JFrog CLI**

By jfrog ♥ Install and configure JFrog CLI 55 stars



### Cache

By actions 🤡

Cache artifacts like dependencies and build outputs to improve workflow execution time

1.8k stars



### MyGet ②

By MyGet

Artifact and Package Repositories: Hosted NuGet, npm, Bower, Maven, PHP, VSIX, Python PyPI and RubyGems feeds



### Snyk 🕢

By Snyk

Find, fix (and prevent!) known vulnerabilities in your code



### Sonatype DepShield ⊘

By Sonatype DepShield

Monitor your open source components for security vulnerabilities - goodbye muda, hello kaizen



### Cache

×

Cache artifacts like dependencies and build outputs to improve workflow execution time

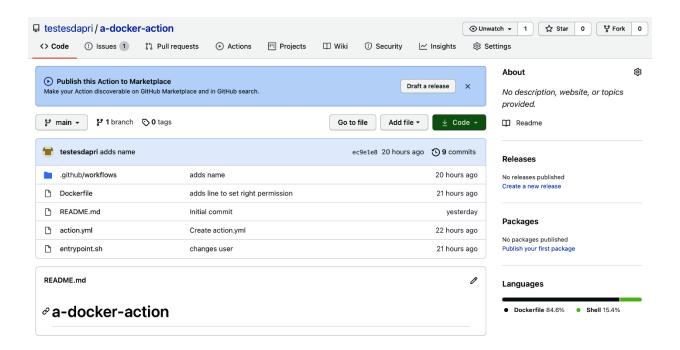
### INSTALLATION

Copy and paste the following snippet into your .yml file.

- name: Cache

uses: actions/cache@v2.1.4

Learn more about this action in actions/cache



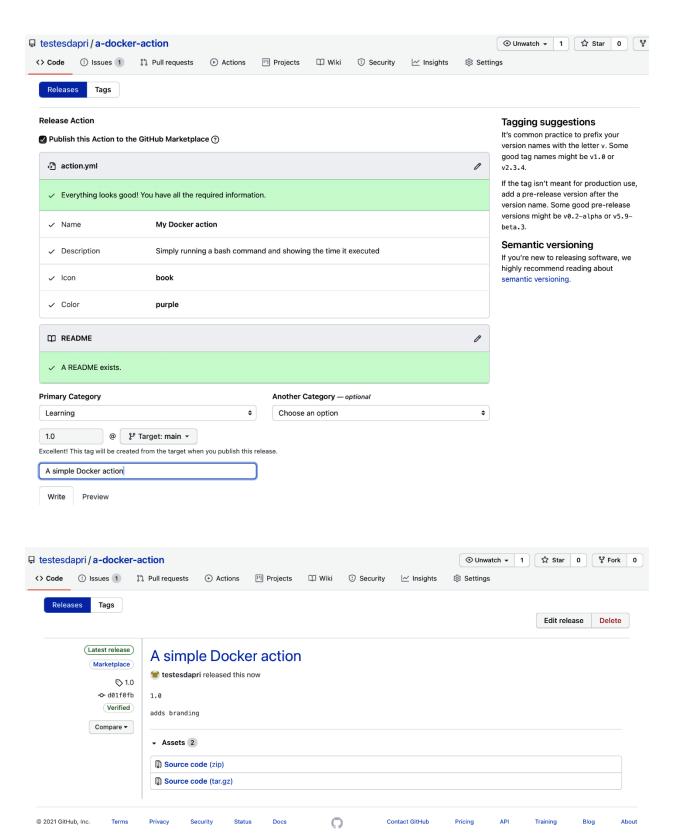
for longer than one month pursuant to 7(a);

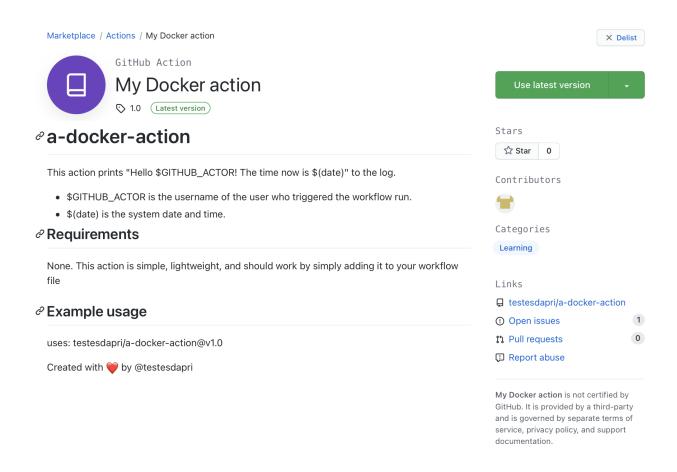
- iii. the Developer is in substantial or persistent breach of any warranties or representations under this Data Protection Addendum;
- iv. the Developer is no longer carrying on business, is dissolved, enters receivership, or a winding up order is made on behalf of Developer.
- c. Breach. Failure to comply with the provisions of this Data Protection Addendum is considered a material breach under the Master Services Agreement.
- d. Notification.
  - In the event that Developer determines that it can no longer meet its privacy obligations under this Agreement, it must notify GitHub immediately.
  - In the event that Developer was certified under Privacy Shield and allows that certification to lapse or otherwise cannot remain certified under Privacy Shield, Developer must notify GitHub immediately.
- e. Modifications. GitHub may modify this Addendum from time to time as required by law, with thirty days' notice to Developer. If Developer is unable to comply with the modifications to the Addendum, GitHub may terminate the Agreement.
- f. Upon Termination, Developer must:
- o i. take reasonable and appropriate steps to stop processing of the Protected Data;
- ii. within thirty days of termination, delete any Protected Data Developer stores on GitHub's behalf; and
- iii. provide GitHub with reasonable assurance that Developer has stopped processing the Protected Data and deleted the stored Protected Data.

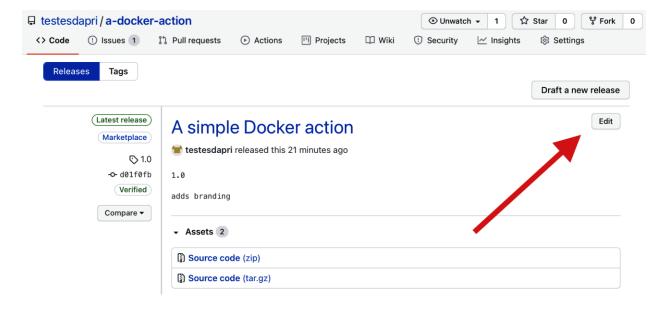
#### A1-8. Liability for Data Processing

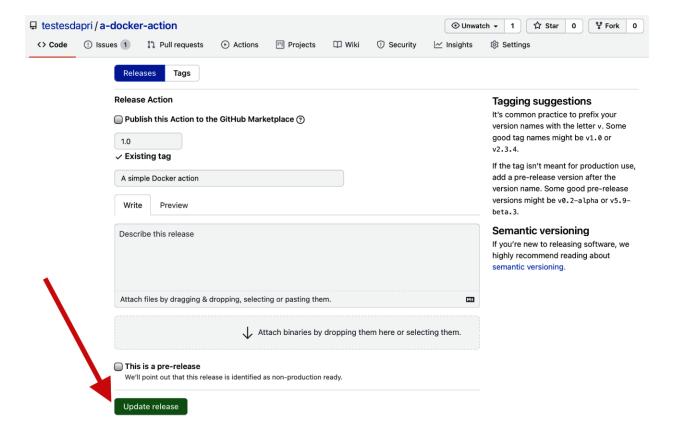
a. Direct Liability. Developer will be liable to GitHub for actual damages caused by any breach
of this Addendum subject to the terms in Section 8, Limitation on Liability of the Marketplace
Developer Agreement.

| ☑ By clicking "Accept Terms" below, you agree to the GitHub Marketplace Developer |              |
|---|--------------|
| Agreement v2.3 on behalf of 👚 testesdapri   |              |
|   | Accept Terms |

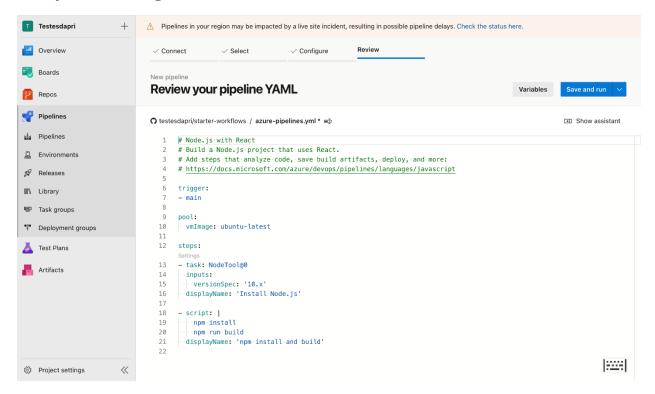


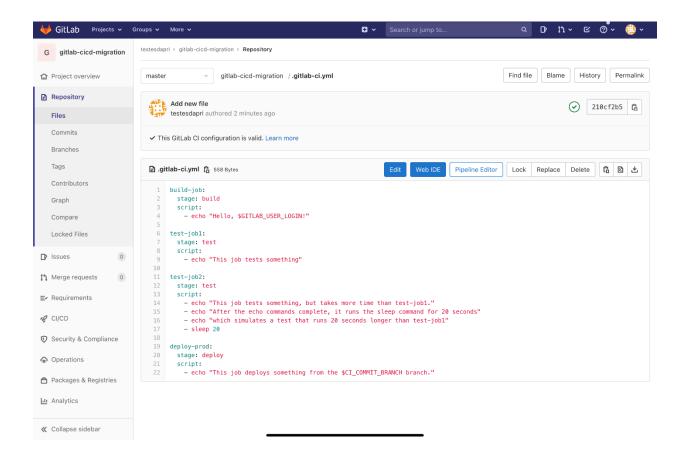






# **Chapter 7: Migrations.**





```
pipeline {
2
        agent any
3
4 *
        tools {
            // Install the Maven version configured as "M3" and add it to the path.
5
 6
            maven "M3"
7
8
9 =
        stages {
            stage('Build') {
10 -
11 -
                 steps {
12
                    // Get some code from a GitHub repository
                     git 'https://github.com/jglick/simple-maven-project-with-tests.git'
13
14
15
                     // Run Maven on a Unix agent.
16
                     sh "mvn -Dmaven.test.failure.ignore=true clean package"
17
18
                     // To run Maven on a Windows agent, use
19
                     // bat "mvn -Dmaven.test.failure.ignore=true clean package"
20
21
22 +
                 post {
23
                     // If Maven was able to run the tests, even if some of the test
24
                     // failed, record the test results and archive the jar file.
25 +
                     success {
                         junit '**/target/surefire-reports/TEST-*.xml'
26
27
                         archiveArtifacts 'target/*.jar'
28
29
30
31
32 }
```

## **Chapter 8: Contributing to the Community and Finding Help.**

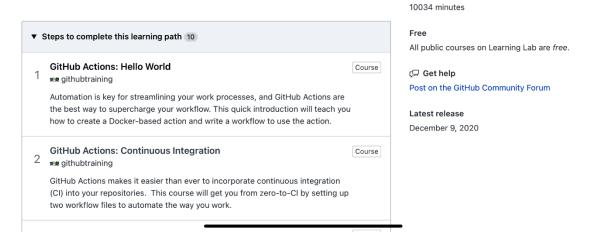


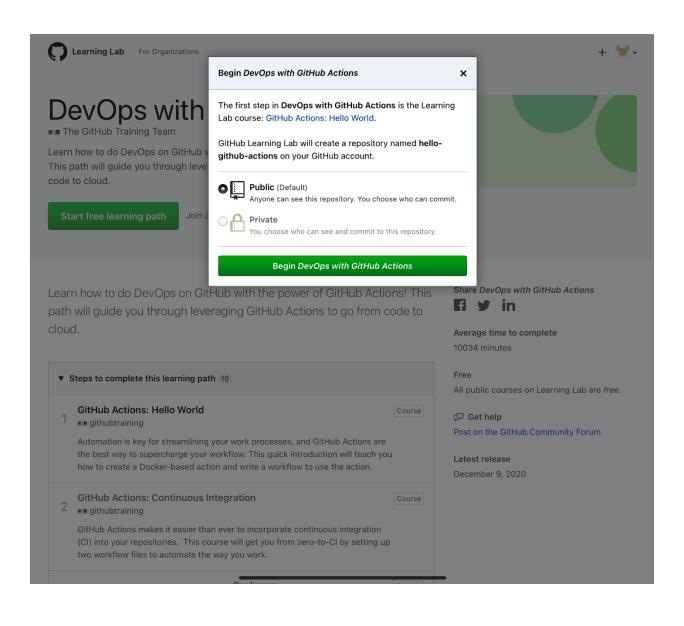
Share DevOps with GitHub Actions

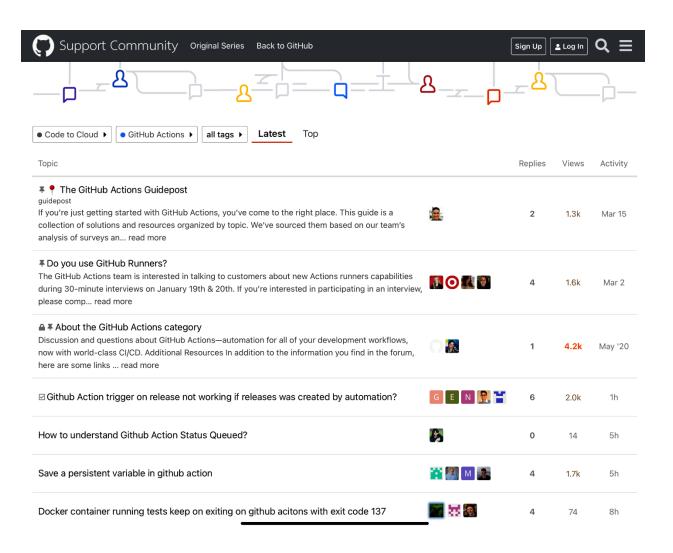
🖬 💆 in

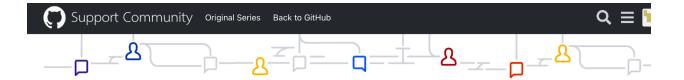
Average time to complete

Learn how to do DevOps on GitHub with the power of GitHub Actions! This path will guide you through leveraging GitHub Actions to go from code to cloud.

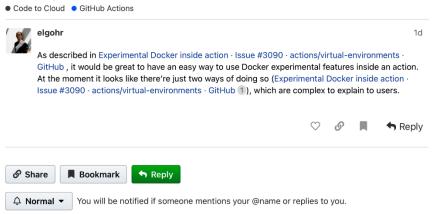


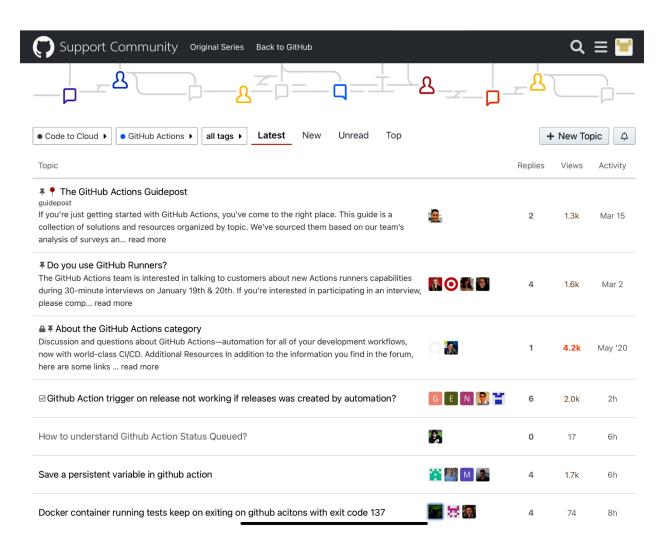


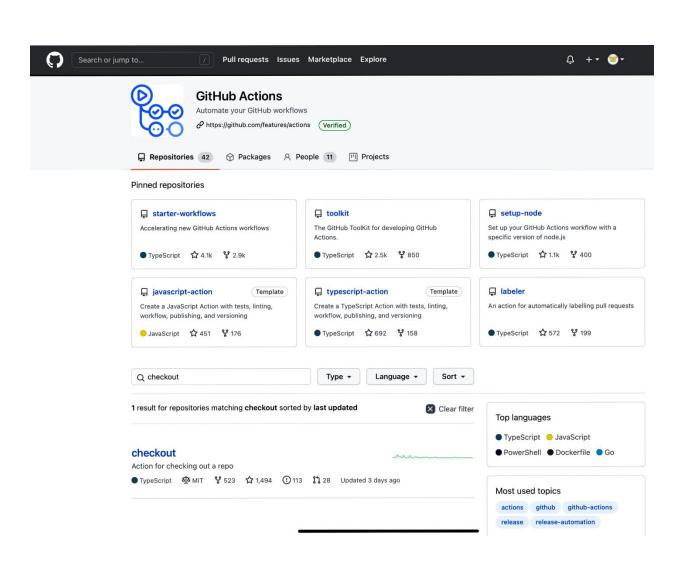


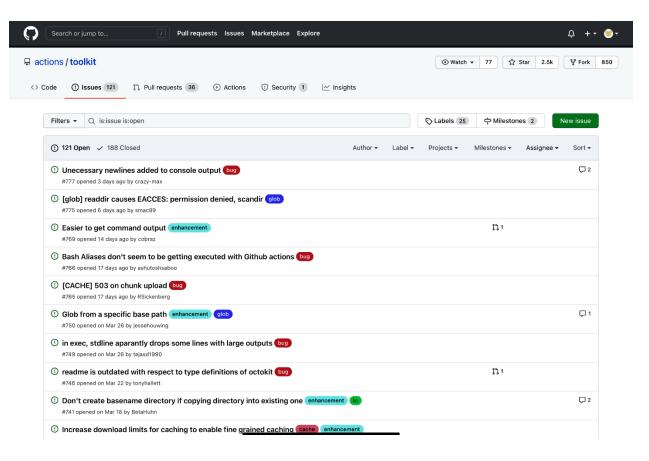


### Use experimental Docker features inside action











# Get help with GitHub



- I have a question about a repository on GitHub
- I'm seeing a GitHub Pages error
- My credit card was declined

#### How can we help?



## **Chapter 9: The Future of GitHub Actions.**

