

# STREAMLINING YOUR MACOS ADMINISTRATION WITH **GITHUB ACTIONS**

JON CRAIN | @JONCRAIN | JULY 2023









ci/cd















# GITHUB ACTIONS



# **\*GITHUB WORKFLOWS**



***“GITHUB ACTIONS IS A  
[WAY] TO AUTOMATE  
[STUFF].”***

- paraphrasing [docs.github.com](https://docs.github.com)



**"GITH  
[WAY  
[STU**



"I SPEND A LOT OF TIME ON THIS TASK.  
I SHOULD WRITE A PROGRAM AUTOMATING IT!"

ATION  
OVER

FREE  
TIME


ONGOING DEVELOPMENT

NO TIME FOR  
ORIGINAL TASK  
ANYMORE

TIME



HelpCommunityStatus



GitHub.comTwitterSubscribe To Updates

Incident On 2023-06-29

Subscribe

Investigating - We are currently experiencing an outage of GitHub products and are investigating.  
Jun 29, 2023 - 17:52 UTC

Current status

<div>Git Operations ?</div> <div>Incident</div> <div>!</div>	<div>API Requests ?</div> <div>Incident</div> <div>!</div>
<div>Webhooks ?</div> <div>Incident</div> <div>!</div>	<div>Issues ?</div> <div>Incident</div> <div>!</div>
<div>Pull Requests ?</div> <div>Incident</div> <div>!</div>	<div>Actions ?</div> <div>Incident</div> <div>!</div>
<div>Packages ?</div> <div>Incident</div> <div>!</div>	<div>Pages ?</div> <div>Incident</div> <div>!</div>
<div>Codespaces ?</div> <div>Incident</div> <div>!</div>	<div>Copilot</div> <div>Incident</div> <div>!</div>



# GITHUB RUNNER COSTS

(AS OF JULY 2023)

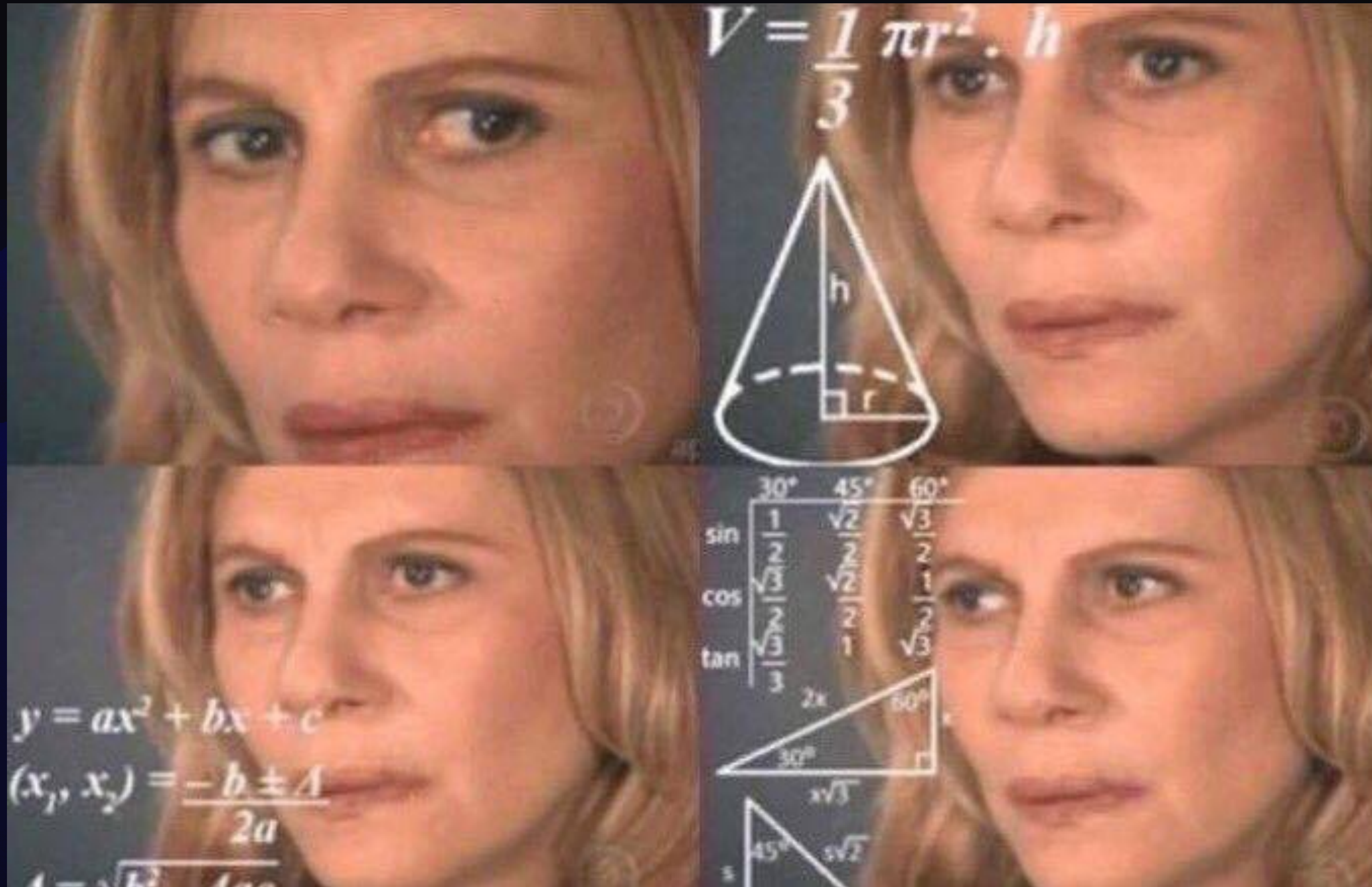
Operating system	vCPUs	Per-minute rate (USD)
Linux	2	\$0.01
Linux	4	\$0.02
Linux	8	\$0.03
Linux	16	\$0.06
Linux	32	\$0.13
Linux	64	\$0.26
Windows	2	\$0.02
Windows	8	\$0.06
Windows	16	\$0.13
Windows	32	\$0.26
Windows	64	\$0.51
macOS	3	\$0.08
macOS	12	\$0.32

[HTTPS://DOCS.GITHUB.COM/EN/BILLING/MANAGING-BILLING-FOR-GITHUB-ACTIONS/ABOUT-BILLING-FOR-GITHUB-ACTIONS](https://docs.github.com/en/billing/managing-billing-for-github-actions/about-billing-for-github-actions)



# GITHUB RUNNER COSTS

(AS OF JULY 2023)



📅 2 days ago

🕒 39m 24s

📅 5 days ago

🕒 1h 0m 10s

📅 last week

🕒 49m 7s

📅 last week

🕒 47m 3s

[HTTPS://DOCS.GITHUB.COM/EN/BILLING/MANAGING-BILLING-FOR-GITHUB-ACTIONS/ABOUT-BILLING-FOR-GITHUB-ACTIONS](https://docs.github.com/en/billing/managing-billing-for-github-actions/about-billing-for-github-actions)




***GITHUB ACTIONS USAGE IS FREE  
FOR STANDARD GITHUB-HOSTED  
RUNNERS IN PUBLIC  
REPOSITORIES...***

[HTTPS://DOCS.GITHUB.COM/EN/BILLING/MANAGING-BILLING-FOR-GITHUB-ACTIONS/ABOUT-BILLING-FOR-GITHUB-ACTIONS](https://docs.github.com/en/billing/managing-billing-for-github-actions/about-billing-for-github-actions)



# GITHUB.COM/JONCRAIN/GITHUB-ACTIONS

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

 **github-actions** Public

Pin Unwatch 1 Fork 0 Star 0

main Go to file

Branches Tags

Existing forks

You don't have any forks of this repository.

+ Create a new fork

website, or topics



<> Code

🔗 Pull requests

▶ Actions

📁 Projects

📖 Wiki

🛡 Security

📈 Insights

⚙ Settings



## Workflows aren't being run on this forked repository

Because this repository contained workflow files when it was forked, we have disabled them from running on this fork. Make sure you understand the configured workflows and their expected usage before enabling Actions on this repository.

I understand my workflows, go ahead and enable them

[View the workflows directory](#)



# ANATOMY OF A WORKFLOW

<https://docs.github.com/en/actions/learn-github-actions/understanding-github-actions>



# WORKFLOW





main

github-actions / github / workflows / hello\_world.yml



joncrain Update hello\_world.yml

Code

Blame

11 lines (9 loc) · 154 Bytes

```
1  name: Hello World
2
3  on:
4    workflow_dispatch:
5
6  jobs:
7    build:
8      runs-on: ubuntu-latest
9      steps:
10       - name: Greeting
11         run: echo "Hello World!"
```



## Actions

New workflow

All workflows

API Endpoint

Greeting on variable day

**Hello World**

macOS pkg build

Precommit

Print GitHub Variables

reusable pre-commit

Share data between jobs

Management

Caches

## Hello World

hello\_world.yml

### 2 workflow runs

This workflow has a `workflow_dispatch` event trigger.

#### 🕒 Hello World

Hello World #2: Manually run by joncrain

#### ✅ Hello World

Hello World #1: Manually run by joncrain



← Hello World

## ✓ Hello World #2

Re-run all jobs



### 🏠 Summary

#### Jobs

✓ build

#### Run details

🕒 Usage

📄 Workflow file

Manually triggered 5 minutes ago

👤 joncrain 🔗 9df18d8

Status

**Success**

Total duration

**13s**

Artifacts

—

### hello\_world.yml

on: workflow\_dispatch

✓ build

1s





# EVENTS





main

github-actions / .github / workflows / hello\_world.yml



joncrain Update hello\_world.yml

Code

Blame

11 lines (9 loc) · 154 Bytes

```
1  name: Hello World
2
3  on:
4    workflow_dispatch:
5
6  jobs:
7    build:
8      runs-on: ubuntu-latest
9      steps:
10       - name: Greeting
11         run: echo "Hello World!"
```



# Hello World

hello\_world.yml

Filter workflow runs

...

## 2 workflow runs

Event ▾

Status ▾

Branch ▾

Actor ▾

This workflow has a workflow\_dispatch event trigger.

Run workflow ▾

✓ Hello World

Hello World #2: Manually run by joncrain

Use workflow from

Branch: main ▾

Run workflow

✓ Hello World

Hello World #1: Manually run by joncrain

last month

...

🕒 9s



# OTHER COMMON EVENTS

Run workflow ▼

Use workflow from

Branch: main ▼

Recipe to Run (optional)

GoogleChrome.munki

Run workflow

Tuesday, Thursday, and

al)



# NOT SO COMMON EVENTS

```
on:  
  repository_dispatch:  
    types: [test_result]
```

```
on: workflow_call
```

```
on:  
  watch:  
    types: [starred]
```



# **JOBS**





main

github-actions / .github / workflows / hello\_world.yml



joncrain Update hello\_world.yml

Code

Blame

11 lines (9 loc) · 154 Bytes

```
1  name: Hello World
2
3  on:
4    workflow_dispatch:
5
6    jobs:
7      build:
8        runs-on: ubuntu-latest
9
10
11
```

**name: Running Hello World**  
**timeout-minutes: 5**



← Hello World

## ✓ Hello World #2

Re-run all jobs

...

### Summary

#### Jobs

✓ build

#### Run details

Usage

Workflow file

Manually triggered 5 minutes ago

 joncrain  9df18d8

Status

**Success**

Total duration

**13s**

Artifacts

—

### hello\_world.yml

on: workflow\_dispatch

✓ build

1s





# SEQUENTIAL JOB

Triggered via pull request 2 weeks ago

(AppUpdate

Artifacts

1

CICD\_GoogleChrome.yml

on: pull\_request

233

DeployDev:

name: Deploy to Dev

outputs:

236

COMPANY\_PORTAL\_APP\_ID : \${steps.release\_script

237

UPDATER\_APP\_ID : \${steps.release\_script

238

APP\_INTUNEWINFILNAME : \${steps.output\_vars.c

239

#if: github.event\_name == 'pull\_request'

240

needs: [Build]

241

runs-on: windows-latest

✓ Build

1m 31s

✓ Deploy to Dev

5m 32s

✓ Deploy to Prod

3m 19s





# MATRIX JOB

multiautopkg.yml

on: workflow\_dispatch

Matrix: AutoPkg

- ✓ AutoPkg (Ado... / AutoPkg 4m 22s
- ✓ AutoPkg (Cyb... / AutoPkg 5m 20s
- ✓ AutoPkg (Fire... / AutoPkg 1m 39s
- ✓ AutoPkg (Goo... / AutoPkg 2m 55s
- ✓ AutoPkg (Micr... / AutoPkg 1m 41s
- ✓ AutoPkg (Spo... / AutoPkg 2m 12s

```
AutoPkg_run:
  strategy:
    matrix:
      target: ["Firefox.munki", "GoogleChrome.munk
```





# GITHUB HOSTED RUNNERS

<https://github.com/actions/runner-images/tree/main/images/macos>

<https://docs.github.com/en/actions/using-github-hosted-runners/about-github-hosted-runners>



# STEPS





main

github-actions / .github / workflows / hello\_world.yml



joncrain Update hello\_world.yml

Code

Blame

11 lines (9 loc) · 154 Bytes

```
1  name: Hello World
2
3  on:
4    workflow_dispatch:
5
6  jobs:
7    build:
8      runs-on: ubuntu-latest
9      steps:
10       - name: Greeting
11         run: echo "Hello World!"
```



✓ Hello World #2

Re-run all jobs

Summary

Jobs

✓ build

Run details

Usage

Workflow file

Manually triggered 5 minutes ago

Status

Total duration

Artifacts

joncrain 9df18d8

Success

13s

—

hello\_world.yml

on: workflow\_dispatch

✓ build

1s

[-]



← Hello World

✓ **Hello World #2**

Re-run all jobs ...

🏠 Summary

Jobs

✓ **build**

Run details

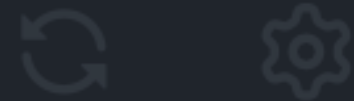
🕒 Usage

📄 Workflow file

**build**

succeeded 1 hour ago in 1s

🔍 Search logs



> ✓ Set up job 0s

▼ ✓ Greeting 0s

1 ▶ Run echo "Hello World!"  
4 Hello World!

> ✓ Complete job 1s



✓ Hello World #2

Re-run all jobs

...

Summary

Jobs

✓ build

Run details

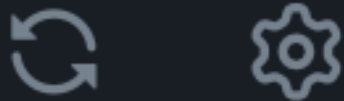
Usage

Workflow file

build

succeeded 1 hour ago in 1s

Search logs



- > ✓ Set up job 0s
- ▼ ✓ Greeting 0s
  - 1 ▶ Run echo "Hello World!"
  - 4 Hello World!
- > ✓ Complete job 1s



# ACTIONS



```
1   name: macOS pkg build
2
3   on:
4     push:
5       branches:
6         - main
7       paths:
8         - 'pkg_example/foo/**'
9     workflow_dispatch:
10
11  jobs:
12    build:
13      runs-on: macos-latest
14      strategy:
15        matrix:
16          pkg_version: ["prd", "test", "dev"]
17        steps:
18          - name: Checkout
19            uses: actions/checkout@v3
20
21          - name: Import Signing Cert
22            uses: apple-actions/import-codesign-cert@8f1f4d258d6deeb3f85395452e1d14c59ce2957e
23            with:
24              p12-file-base64: ${ secrets.CERTIFICATES_P12 }
25              p12-password: ${ secrets.CERTIFICATES_P12_PASSWORD }
26
27          - name: Find and Replace
28            run: |
29              /usr/bin/sed -i '' 's/pkg_version/${ matrix.pkg_version }/g' "pkg_example/foo/payload/private/var/tmp/foo.txt"
30              /usr/bin/sed -i '' 's/pkg_version/${ matrix.pkg_version }/g' "pkg_example/foo/build-info.plist"
31
```



```
- name: Run munkipkg
  id: munkipkg
  uses: joncrain/munkipkg-action@main
  with:
    pkg_subdir: pkg_example/foo
```

```
- name: Create Release
  uses: softprops/action-gh-release@c9b46fe7aad9f02afd89b12450b780f52dacfb2d
  with:
    files: ${ steps.munkipkg.outputs.filepath }
    tag_name: ${ steps.munkipkg.outputs.tag }
  env:
    GITHUB_TOKEN: ${ secrets.GITHUB_TOKEN }
```

```
- name: SimpleMDM Upload
  if: env.SIMPLEMDM_API_KEY != null
  run: |
    curl https://a.simplemdm.com/api/v1/apps \
      -F binary=@${ steps.munkipkg.outputs.filepath } \
      -u ${ secrets.SIMPLEMDM_API_KEY }:
```





Marketplace / Search results

Search for apps and actions

Sort: Best Match

Menu

# Actions

An entirely new way to automate your development workflow.

19270 results filtered by Actions

## Actions



### Setup Go environment

By actions

Setup a Go environment and add it to the PATH

1.1k stars



### First interaction

By actions

Greet new contributors when they create their first issue or open their first pull request

625 stars



### Download a Build Artifact

By actions

Download a build artifact that was previously uploaded in the workflow by the upload-artifact action

1k stars



### Close Stale Issues

By actions

Close issues and pull requests with no recent activity

1k stars



### Setup Java JDK

By actions

Set up a specific version of the Java JDK and add the command-line tools to the PATH

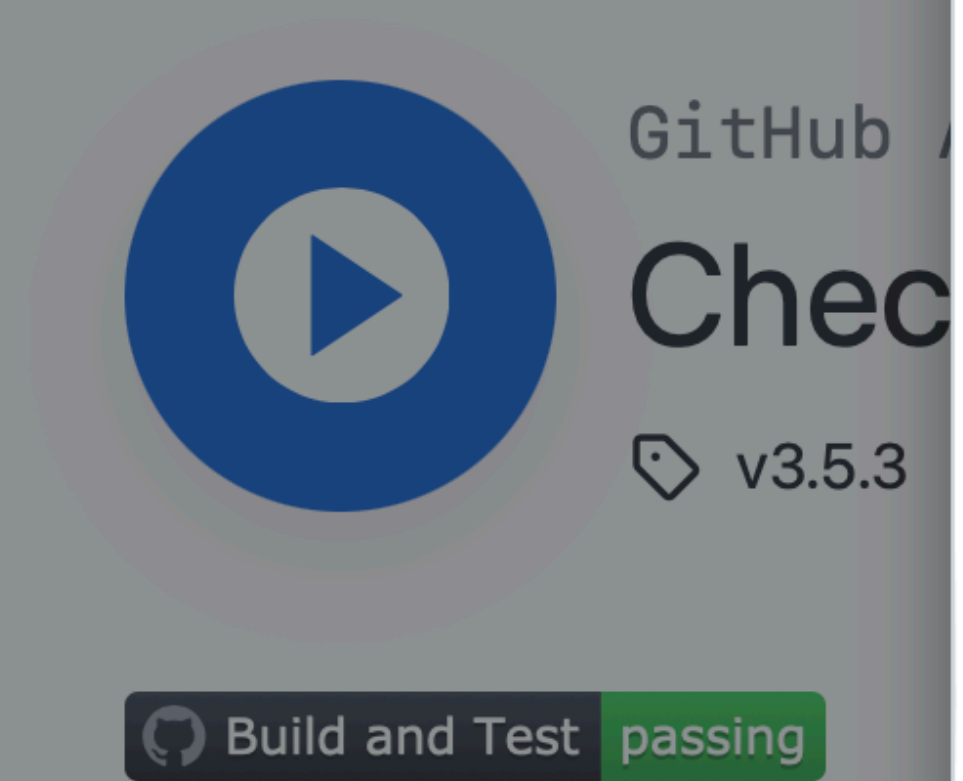


### Setup .NET Core SDK

By actions

Used to build and publish .NET source. Set up a specific version of the .NET and authentication to private NuGet





## Checkout V3

This action checks-out your repository under `$GITHUB_WORKSPACE`, so your workflow can access it.

Only a single commit is fetched by default, for the ref/SHA that triggered the workflow. Set `fetch-depth: 0` to fetch all history for all branches and tags. Refer [here](#) to learn which commit `$GITHUB_SHA` points to for different events.

The auth token is persisted in the local git config. This enables your scripts to run authenticated git commands. The token is removed during post-job cleanup. Set `persist-credentials: false` to opt-out.

When Git 2.18 or higher is not in your PATH, falls back to the REST API to download the files.



### Checkout

Checkout a Git repository at a particular version

#### INSTALLATION

Copy and paste the following snippet into your `.yaml` file.

```
- name: Checkout
  uses: actions/checkout@v3.5.3
```



[Learn more about this action in actions/checkout](#)



Test version



creator

GitHub has verified that this action was created by actions.

[Learn more about verified Actions.](#)

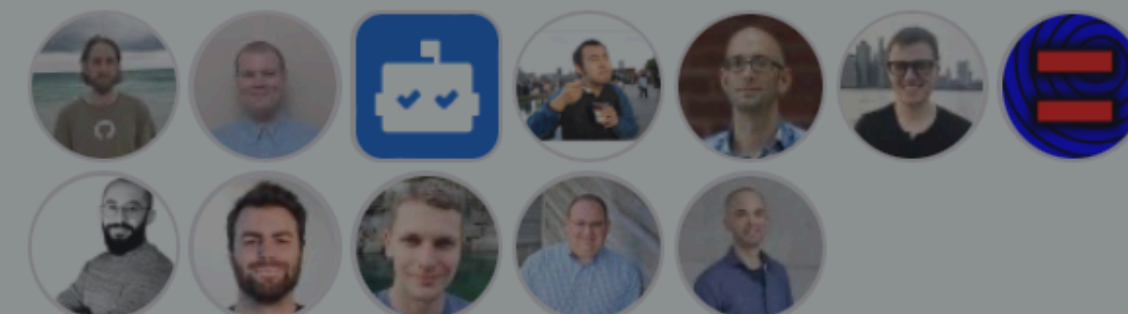
Stars



Star 4.2k



Contributors



Categories

Utilities





GitHub Action

# S3 Deploy

v4.0.0 Latest version

Use latest version

## AWS S3 Deploy GitHub Action

Easily deploy a static website to AWS S3 and invalidate CloudFront distribution

This action is based on the work done by import-io on [s3-deploy](#).

### Usage

You can use this action by referencing the v3 branch

```
uses: reggionick/s3-deploy@v3
with:
  folder: build
  bucket: ${ secrets.S3_BUCKET }
  bucket-region: us-east-1
```

### Arguments

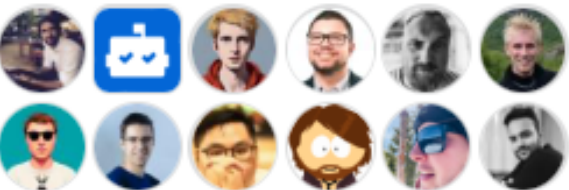
S3 Deploy's Action supports inputs from the user listed in the table below:

Input	Type	Required	Default	Description
folder	string	Yes		The folder to upload
bucket	string	Yes		The destination bucket
bucket-region	string	Yes		The destination bucket region
dist-id	string	No	undefined	The CloudFront Distribution ID to invalidate
invalidation	string	No	'/'	The CloudFront Distribution path(s) to invalidate
delete	boolean			Removes files in S3, that are not

#### Stars

Star 177

#### Contributors



#### Categories

Deployment Publishing

#### Links

- Reggionick/s3-deploy
- Open issues 8
- Pull requests 6
- Report abuse

S3 Deploy is not certified by GitHub. It is provided by a third-party and is governed by separate terms of service, privacy policy, and support documentation.



```
4  inputs:
5    keychain:
6      description: 'The name of the keychain to import into.'
7      required: true
8      default: 'signing_temp'
9  create-keychain:
10    description: 'A boolean indicating whether to create the keychain.'
11    required: true
12    default: 'true'
13  keychain-password:
14    description: 'The password to use with the keychain. Gets auto-generated if keychain is "signing_temp".'
15    required: false
16  p12-filepath:
17    description: 'The path to the PKCS12 file to import.'
18    required: false
19  p12-file-base64:
20    description: 'The certificates in a PKCS12 file encoded as a base64 string.'
21    required: false
22  p12-password:
23    description: 'The password used to import the PKCS12 file.'
24    required: true
25  outputs:
26    keychain-password:
27      description: 'The password for temporary keychain.'
28    security-response:
29      description: 'The output of the security commands.'
```








# CREATING & USING ACTIONS

<https://docs.github.com/en/actions/learn-github-actions/finding-and-customizing-actions>





GitHub Action

MunkiPkg Action

v1.5

Latest version

# munkipkg-action

This action utilizes Greg Neagle's excellent pkg building tool [munkipkg](#)

MunkiPkg action will create a build artifact in the build directory `build/*.pkg` and will output the version of the pkg being built.

- *Note: Must be run on a `macos` runner.*

## Inputs

Input	type	Example/Default
munkipkg_version	string (optional)	<code>https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munki</code>

Use latest version

▼

### Stars

☆ Star

1

▼

### Contributors



### Categories

- Publishing
- Utilities

### Links

- [joncrain/munkipkg-action](#)
- [Open issues](#) 0
- [Pull requests](#) 0
- [Report abuse](#)

MunkiPkg Action is not certified by GitHub. It is provided by a third-party and is governed by separate terms of service, privacy policy, and support documentation.



joncrain / munkipkg-action

🔍

+

🔄

🔗

📁

<> Code

🕒 Issues

🔗 Pull requests

🎬 Actions

📁 Projects

📖 Wiki

🛡 Security

📈 Insights

⚙ Settings

📁

main

munkipkg-action / action.yml

📄

🔍

Go to file

t

⋮

joncrain

removing extra commented lines

1edb206 · now

🕒 History

Code

Blame

49 lines (45 loc) · 1.72 KB

Raw

📄

⬇

✎

▼

<>

1

name: MunkiPkg Action

2

author: joncrain

3

description: GitHub Action to build a macOS package for release.

4

5

branding:

6

icon: command

7

color: gray-dark

8

9

inputs:

10

munkipkg\_version:

11

default: https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munkipkg

12

required: false

13

pkg\_subdir:

14

default: ""

15

required: false

16

17

outputs:

18

tag:

19

value: \${ steps.munkipkg.outputs.tag }

20

description: "Returns the pkg version from the build-info file."

21

filename:

22

value: \${ steps.munkipkg.outputs.filename }

23

description: "Returns the filename of the built pkg."

24

filepath:

25

value: \${ steps.munkipkg.outputs.filepath }

26

description: "Returns the filepath of the built pkg."

27

28

runs:

29

using: "composite"



```
1  name: MunkiPkg Action
2  author: joncrain
3  description: GitHub Action to build a macOS package for release.
4
5  branding:
6    icon: command
7    color: gray-dark
8
9  inputs:
10    munkipkg_version:
11      default: https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munkipkg
12      required: false
13    pkg_subdir:
14      default: ""
15      required: false
16
17  outputs:
18    tag:
19      value: ${ steps.munkipkg.outputs.tag }
20      description: "Returns the pkg version from the build-info file."
21    filename:
22      value: ${ steps.munkipkg.outputs.filename }
23      description: "Returns the filename of the built pkg."
24    filepath:
25      value: ${ steps.munkipkg.outputs.filepath }
26      description: "Returns the filepath of the built pkg."
27
28  runs:
29    using: "composite"
30    steps:
```



```
21 filename:
22     value: ${ steps.munkipkg.outputs.filename }
23     description: "Returns the filename of the built pkg."
24 filepath:
25     value: ${ steps.munkipkg.outputs.filepath }
26     description: "Returns the filepath of the built pkg."
27
28 runs:
29     using: "composite"
30     steps:
31     - id: munkipkg
32       run: |
33         curl ${ inputs.munkipkg_version } -o ${ github.action_path }/munkipkg
34         chmod -x ${ github.action_path }/munkipkg
35         pkg_path="$GITHUB_WORKSPACE/${ inputs.pkg_subdir }"
36         python3 ${ github.action_path }/munkipkg "$pkg_path"
37         if [ -f "$pkg_path/build-info.json ]; then
38             version=$(jq -r .version "$pkg_path/build-info.json)
39         elif [ -f "$pkg_path/build-info.plist ]; then
40             version=$(defaults read "$pkg_path/build-info.plist version)
41         elif [ -f "$pkg_path/build-info.yaml ]; then
42             version=$(grep -A3 'version:' "$pkg_path/build-info.yaml | tail -n1 | awk '{ print $2}' | sed "s/\'//g")
43         fi
44         echo "tag=$(echo v${version})" >> $GITHUB_OUTPUT
45         for file in "$pkg_path/build/*; do
46             echo "filename=$(echo "${file##*/}")" >> $GITHUB_OUTPUT
47             echo "filepath=$(echo "$pkg_path/build/${file##*/}")" >> $GITHUB_OUTPUT
48         done
49     shell: bash
```



```

1  ▼ Run joncrain/munkipkg-action@main
2    with:
3      pkg_subdir: pkg_example/foo
4      munkipkg_version: https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munkipkg
5  ▼ Run curl https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munkipkg
   /Users/runner/work/_actions/joncrain/munkipkg-action/main/munkipkg
6    curl https://raw.githubusercontent.com/munki/munki-pkg/8d68abbab4c459857d28fdd84ad668ec6ccdf98a/munkipkg -o
   /Users/runner/work/_actions/joncrain/munkipkg-action/main/munkipkg
7    chmod +x /Users/runner/work/_actions/joncrain/munkipkg-action/main/munkipkg
8    pkg_path="$GITHUB_WORKSPACE"/pkg_example/foo
9    python3 /Users/runner/work/_actions/joncrain/munkipkg-action/main/munkipkg "$pkg_path"
10   if [ -f "$pkg_path"/build-info.json ]; then
11     version=$(jq -r .version "$pkg_path"/build-info.json)
12   elif [ -f "$pkg_path"/build-info.plist ]; then
13     version=$(defaults read "$pkg_path"/build-info.plist version)
14   elif [ -f "$pkg_path"/build-info.yaml ]; then
15     version=$(grep -A3 'version:' "$pkg_path"/build-info.yaml | tail -n1 | awk '{ print $2}' | sed "s/\'/\'//g")
16   fi
17   echo "tag=$(echo v${version})" >> $GITHUB_OUTPUT
18   for file in "$pkg_path"/build/*; do
19     echo "filename=$(echo "${file##*/}")" >> $GITHUB_OUTPUT
20     echo "filepath=$(echo "$pkg_path/build/${file##*/}")" >> $GITHUB_OUTPUT
21   done
22   shell: /bin/bash --noprofile --norc -e -o pipefail {0}
23   % Total      % Received % Xferd  Average Speed   Time    Time       Time  Current
24                Dload  Upload  Total   Spent    Left    Speed
25
26    0      0    0     0    0     0      0      0  --:--:-- --:--:-- --:--:--    0
27  100 41547  100 41547    0     0  1002k      0  --:--:-- --:--:-- --:--:--  1193k
28   pkgbuild: Inferring bundle components from contents of /Users/runner/work/github-actions/github-actions/pkg_example/foo/payload
29   pkgbuild: Writing new component property list to /var/folders/24/8k48jl6d249_n_qfxwsl6xvm0000gn/T/tmppzewhdle/component.plist
30   pkgbuild: Reading components from /var/folders/24/8k48jl6d249_n_qfxwsl6xvm0000gn/T/tmppzewhdle/component.plist
31   pkgbuild: Wrote package to /Users/runner/work/github-actions/github-actions/pkg_example/foo/build/foo-1.0-dev.pkg

```



# VARIABLES & EXPRESSIONS



```
1  name: Greeting on variable day
2
3  on:
4    workflow_dispatch
5
6  env:
7    DAY_OF_WEEK: Monday
8
9  jobs:
10   greeting_job:
11     runs-on: ubuntu-latest
12     env:
13       Greeting: Hello
14     steps:
15       - name: Greetings
16         run: echo "$Greeting $First_Name. Today is $DAY_OF_WEEK!"
17         env:
18           First_Name: Jon
```



joncrain / automunki

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New repository secret

Environment secrets

Manage environments

There are no secrets for this repository's environments.

Repository secrets

RW\_REPO\_TOKEN

Updated on May 4

SUMMARY\_WEBHOOK\_TOKEN

Updated on May 9

`${{ secrets.SUMMARY_WEBHOOK_TOKEN }}`



# USE A PASSWORD MANAGER

– **name:** Retrieve secrets from Keeper

**id:** ksecrets

**uses:** Keeper-Security/ksm-action@5ad8c4f605874dc46869006e5ff9b159101274f4 # v1.0.8

**with:**

**keeper-secret-config:** \${ secrets.KSM CONFIG }

**secrets:** |

/custom\_field/P12\_Certificate > env: CERTIFICATES\_P12

/custom\_field/P12\_Password > env: CERTIFICATES\_P12\_PASSWORD

/custom\_field/SIMPLEMDM\_API\_KEY > env: SIMPLEMDM\_API\_KEY



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New repository variable

There are no variables for this repository's environments.

Repository variables

MUNKI\_WEBSITE

munki.company.com

Updated 6 minutes ago

`vars.MUNKI_WEBSITE`



```
73     - name: Run AutoPkg
74       run: |
75         python3 ./autopkg_src/autopkg_tools.py -l ./autopkg_src/recipe_list.json
76     env:
77       RECIPE: ${github.event.inputs.recipe}
78       SUMMARY_WEBHOOK_TOKEN: ${secrets.SUMMARY_WEBHOOK_TOKEN}
79       GITHUB_TOKEN: ${secrets.RW_REPO_TOKEN}
80       MUNKI_WEBSITE: ${vars.MUNKI_WEBSITE}
```

```
33     SUMMARY_WEBHOOK = os.environ.get("SUMMARY_WEBHOOK_TOKEN", None)
34     MUNKI_WEBSITE = os.environ.get("MUNKI_WEBSITE", "munki.example.com")
```

```
65     SUMMARY_WEBHOOK_TOKEN: ***
66     GITHUB_TOKEN: ***
67     MUNKI_WEBSITE: munki.example.com
```



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Secrets and variables

Actions

## Actions secrets and variables

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**

New repository variable

# ACTIONS\_RUNNER\_DEBUG

# ACTIONS\_STEP\_DEBUG

Environment variables

Manage environments

There are no variables for this repository's environments.

### Repository variables

ACTIONS\_RUNNER\_DEBUG  
true

Updated on Jun 17



ACTIONS\_STEP\_DEBUG  
true

Updated now







**CACHE**



```
33   - name: Cache Munki code
34     uses: actions/cache@v3
35     id: munki-code-cache
36     with:
37       path: munki
38       key: ${{ runner.os }}-munki-code-${{ env.MUNKI_COMMIT }}
39
40   - name: Checkout Munki code
41     if: steps.munki-code-cache.outputs.cache-hit != 'true'
42     uses: actions/checkout@v3
43     with:
44       repository: munki/munki
45       ref: ${{ env.MUNKI_COMMIT }}
46       path: munki
```



>  Cache Munki code

>  Checkout Munki code

>  Run repoclean

>  Create Pull Request

>  Post Cache Munki code



# Caches

Showing caches from all workflows. [Learn more about managing caches.](#)

3 caches

**Linux-munki-code-252fa782ae5f680c6d3d9c5b163ea495564b2a77**

4.7 MB cached 3 months ago

main

**Linux-python-cache-3.9.13**

76 MB cached 3 months ago

main



The background of the image consists of several layers of dark blue, wavy, horizontal bands that create a sense of depth and movement, resembling stylized waves or a layered landscape. The word "ARTIFACTS" is prominently displayed in the center-left area in a bold, white, sans-serif font.

**ARTIFACTS**



```
7     job_1:
8         name: Add 3 and 7
9         runs-on: ubuntu-latest
10        steps:
11            - shell: bash
12              run: |
13                  expr 3 + 7
14            - name: Upload result
15              uses: actions/upload-artifact@v3
16              with:
17                  name: job_1_result
18                  path: result.txt
19
20        job_2:
21            name: Multiply by 9
22            needs: job_1
23            runs-on: windows-latest
24            steps:
25                - name: Download math result for job 1
26                  uses: actions/download-artifact@v3
27                  with:
28                      name: job_1_result
29                - shell: powershell
30                  run: |
31                      v = $(cat math-homework.txt)
32                      e = $([ $v * 9 ])
33                - name: Print the final result
34                  uses: actions/echo@v1
35                  with:
36                      n: $e
37                  p: The result is $e
38
39        job_3:
40            name: Display results
41            needs: job_2
42            runs-on: macOS-latest
43            steps:
44                - name: Download math result for job 2
45                  uses: actions/download-artifact@v3
46                  with:
47                      name: job_2_result
48                - name: Print the final result
49                  shell: bash
50                  run: |
51                      value=`cat math-homework.txt`
52                      echo The result is $value
```



Manually triggered 4 minutes ago

Status

Total duration

Artifacts

✓ Download math result for job 2

```
1 ▶ Run actions/download-artifact@v3
4 Starting download for homework
5 Directory structure has been setup for the artifact
6 Total number of files that will be downloaded: 1
7 Artifact homework was downloaded to /Users/runner/work
8 Artifact download has finished successfully
```

✓ Display results

6s



✓ Print the final result

```
1 ▶ Run value=`cat math-homework.txt`
5 The result is 90
```

Name

Size



homework

3 Bytes





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## Actions permissions

☒ **Allow all actions and reusable workflows**

Any action or reusable workflow can be used, regardless of who authored it or where it is defined.

☐ **Disable actions**

The Actions tab is hidden and no workflows can run.

☐ **Allow joncrain actions and reusable workflows**

Any action or reusable workflow defined in a repository within joncrain can be used.

☐ **Allow joncrain, and select non-joncrain, actions and reusable workflows**

Any action or reusable workflow that matches the specified criteria, plus those defined in a repository within joncrain, can be used. [Learn more about allowing specific actions and reusable workflows to run.](#)

Save

## Artifact and log retention

Choose the repository settings for artifacts and logs.

### Artifact and log retention

90 days Save

Your organization has set a maximum limit of 90 days. [Learn more](#)

## Fork pull request workflows from outside collaborators

Choose which subset of outside collaborators will require approval to run workflows on their pull requests. [Learn more about approving workflow runs from public forks.](#)

☐ **Require approval for first-time contributors who are new to GitHub**

Only first-time contributors who recently created a GitHub account will require approval to run workflows.

☒ **Require approval for first-time contributors**



# MAC RELATED ACTIONS



# **CODE VERIFICATION/LINTING**



```
1  name: Precommit
2
3  on:
4    push:
5      branches-ignore:
6        - main
7
8  jobs:
9    run_precommit:
10     uses: reusable-workflows/.github/workflows/reusable_precommit.yaml@main
```



```
1  name: reusable pre-commit
2
3  on:
4    workflow_call
5
6  jobs:
7    pre-commit:
8      runs-on: ubuntu-latest
9      timeout-minutes: 2
10     steps:
11       - uses: actions/checkout@v3
12       - uses: actions/setup-python@v4
13         with:
14           python-version: '3.11'
15       - uses: pre-commit/action@v3.0.0
```



# **BUILDING PACKAGES**



```
17     steps:
18       - name: Checkout
19         uses: actions/checkout@v3
20
21       - name: Import Signing Cert
22         uses: apple-actions/import-codesign-certs@8f1f4d258d6deeb3f85395452e1
23         with:
24           p12-file-base64: ${ secrets.CERTIFICATES_P12 }
25           p12-password: ${ secrets.CERTIFICATES_P12_PASSWORD }
26
27       - name: Find and Replace
28         run: |
29           /usr/bin/sed -i '' 's/pkg_version/${ matrix.pkg_version }/g' "pkg
30           /usr/bin/sed -i '' 's/pkg_version/${ matrix.pkg_version }/g' "pkg
31
32       - name: Run munkipkg
33         id: munkipkg
34         uses: joncrain/munkipkg-action@v1.5
35         with:
36           pkg_subdir: pkg_example/foo
```



```
53 - name: Notarize and staple package
54   id: notarize_and_staple
55   run: |
56     "$XCODE_PATH/Contents/Developer/usr/bin/notarytool" store-credentials --apple-id "o
57     "$XCODE_PATH/Contents/Developer/usr/bin/notarytool" submit "./munki/$MUNKI_PKG_PATH
58     "$XCODE_PATH/Contents/Developer/usr/bin/stapler" staple "./munki/$MUNKI_PKG_PATH"
59
60 - name: Generate changelog
61   if: ${{ false }} # disable job or now
62   id: changelog
63   uses: metcalfc/changelog-generator@afdc9470aebdb2252c0c95a1c130723c9e21f3a # v4.1
64   with:
65     myToken: ${{ secrets.GITHUB_TOKEN }}
66     reverse: 'true'
```



A stylized background featuring a series of overlapping, rounded mountain peaks in shades of dark blue and navy blue against a black sky.

**RUNNING AUTOPKG**

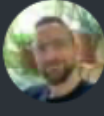










***GITHUB.COM/JONCRAIN/AUTOMUNKI***



 **automunki** Public

Pin Unwatch 1 Fork 2 Star 0

main 1 branch 0 tags Go to file Add file <> Code

	joncrain Update GoogleChrome.munki.recipe	b299d6b now 266 commits
	.github/workflows	Update autopkg.yml 1 minute ago
	autopkg_src	Update GoogleChrome.munki.recipe now
	icons	Initial code commit 2 months ago
	manifests	Initial code commit 2 months ago
	pkgsinfo	feat: Merged autopkg-TeamViewer_15.43.9 2 hours ago
	.gitignore	feat: Add automerge last month
	.pre-commit-config.yaml	Initial code commit 2 months ago
	LICENSE	Initial code commit 2 months ago
	README.md	adding slack summary 2 months ago
	pyproject.toml	Initial code commit 2 months ago

About

Munki repo with built in autopkg

- Readme
- MIT license
- Activity
- 0 stars
- 1 watching
- 2 forks

Releases

No releases published  
[Create a new release](#)

Packages

No packages published





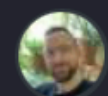
main

automunki / autopkg\_src /

Go to file

t

Add file



joncrain Update GoogleChrome.munki.recipe

b299d6b · 4 minutes ago



History

Name	Last commit message	Last commit date
..		
Recipes	feat: Adding preprocessor	last month
overrides	Update GoogleChrome.munki.recipe	4 minutes ago
autopkg_metadata.json	feat: Update autopkg_metadata.json 2023-06-22	last month
autopkg_tools.py	more reverting	3 weeks ago
cache_utils.py	feat: Add metadata cache	last month
git_utils.py	Split files	2 months ago
recipe_list.json	Code clean	2 months ago
repo_list.txt	Code clean	2 months ago
requirements.txt	update requirements	2 months ago
slack_utils.py	Split files	2 months ago



# Actions

New workflow

All workflows

AutoMerge

AutoPkg run

Management

Caches

## AutoPkg run

autopkg.yml

49 workflow runs

This workflow has a workflow\_dispatch event trigger.

 [AutoPkg run](#)

AutoPkg run #66: Manually run by joncrain

 [AutoPkg run](#)

AutoPkg run #65: Manually run by joncrain



Summary

Jobs

AutoPkg

Run details

Usage

Workflow file

AutoPkg

Started 7m 25s ago

Search logs

> ✓ Set up job3s

> ✓ Checkout this repo3s

> ✓ Install Munki11s

> ✓ Install AutoPkg9s

> ✓ Configure AutoPkg5s

> ✓ Configure AutoPkg Repos37s

> ✓ Run makecatalogs1s

> ✓ Run actions/setup-python@v40s

> ✓ Run actions/cache@v30s

> ✓ pip Install7s

● Run AutoPkg6m 7s

○ Gather Logs



12:56 Imported PlasticSCM-cloud 11.0.16.8108

Catalogs: test

Package Path: PlasticSCM-cloud-11.0.16.8108.dmg

Pkginfo Path: PlasticSCM-cloud-11.0.16.8108.plist



Imported PowerShell 7.2.13

Catalogs: test

Package Path: PowerShell-x64-7.2.13.pkg

Pkginfo Path: PowerShell-7.2.13.plist



**IT CPE Notifications** APP 1:04 AM

Imported TechSmithSnagit 2023.2.0

Catalogs: test

Package Path: TechSmithSnagit-2023.2.0.dmg

Pkginfo Path: TechSmithSnagit-2023.2.0.plist







IT CPE Notifications APP 1:09 AM

NEW

The following items have been updated

Application	Version
Blender	3.6.1
BlenderARM	3.6.1
Creative Cloud Installer	5.11.0.522.1
GoogleChrome	115.0.5790.98
Opera	100.0.4815.76
Postman	10.16.0
PostmanARM	10.16.0
Rider	2023.1.4
RiderARM	2023.1.4
TextExpander	7.6
TeamViewer	15.43.9



Autopkg Automated Run | Yesterday at 1:09 AM




# feat: Update trust for Tunnelblick #491

 Merged

joncrain merged 1 commit into `main` from `update_trust-Tunnelblick-2023-06-07` on Jun 7

 Conversation 0

 Commits 1

 Checks 0

 Files changed 1



commented on Jun 7



autopkg\_src/overrides/Tunnelblick.munki.recipe: FAILED  
Parent recipe com.github.homebysix.download.Tunnelblick contents differ from expected.  
Path: /Users/runner/work/it-cpe-munki-repo/it-cpe-munki-repo/autopkg\_src/repos/com.github.autopkg.homebysix-recipes/Tunnelblick/Tunnelblick.download.recipe  
commit 6dff1576d76f1038398d4a522e2aadd8766f660c  
Author: opus-nbo 44579933+opus-nbo@users.noreply.github.com  
Date: Mon Jun 5 09:18:03 2023 +0200

```
Update Tunnelblick.download.recipe
diff --git a/Tunnelblick/Tunnelblick.download.recipe b/Tunnelblick/Tunnelblick.download.recipe
index ed9d3c4..3f44110 100644
```





# Q&A

## STREAMLINING YOUR MACOS ADMINISTRATION WITH **GITHUB ACTIONS**

JON CRAIN | @JONCRAIN | JULY 2023



# **BIT.LY/PSUMAC2023-110**

STREAMLINING YOUR MACOS ADMINISTRATION WITH  
**GITHUB ACTIONS**

JON CRAIN | @JONCRAIN | JULY 2023



