

CLOUD DAY 2023



**CI/CD e developer experience: da un
git push al release in produzione con
Codefresh**

Pamela Gotti
CTO @ Banca CF+

KUDOS



EssilorLuxottica

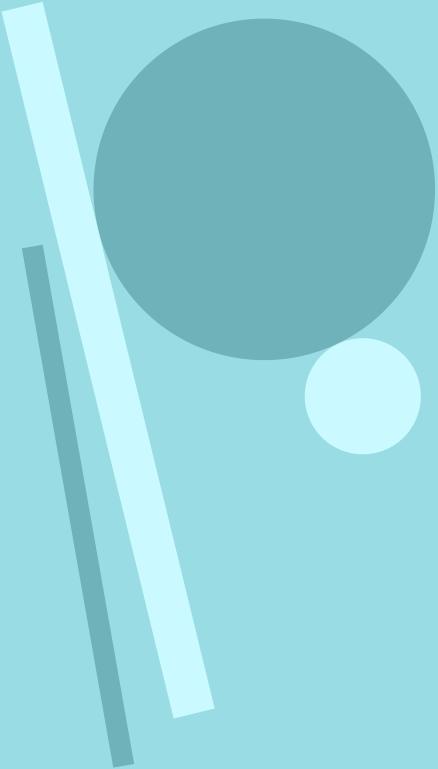
Our Vision. Your Future.



Spreaker★
From iHeart



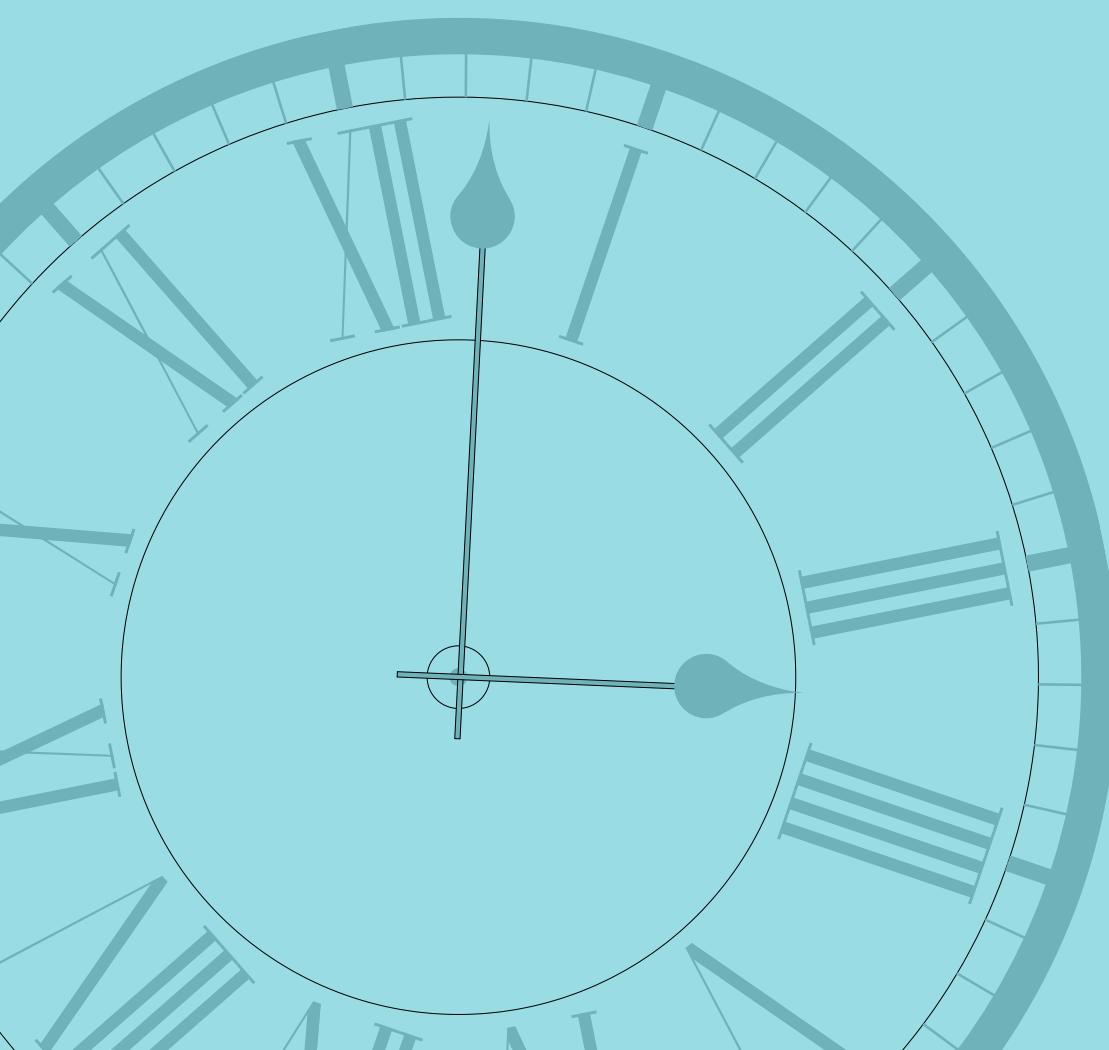
improve



What can you expect?

- GitOps process design
- Developer experience
- Codefresh
- From fintech startup to a bank - things get complicated

2016



2016



NoCodeOps

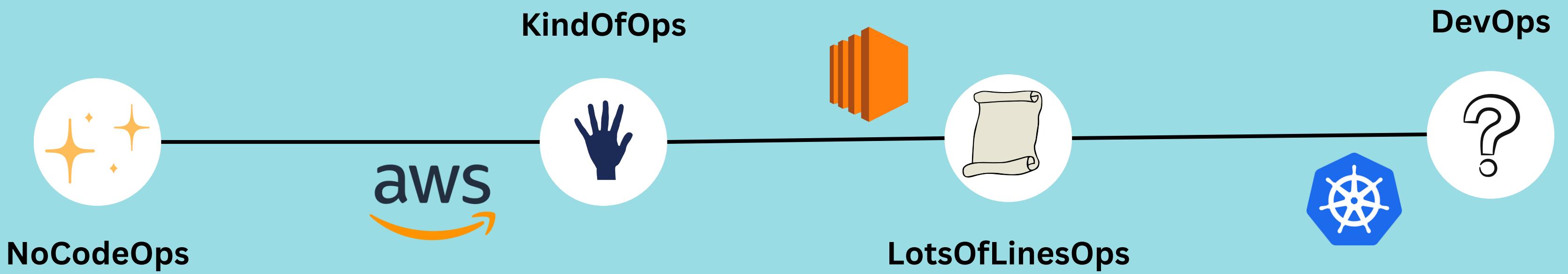
2016



2016



2016



What we dreamed of

**A flexible and
managed service**

**Metrics metrics
metrics**

**A partner to work
with, not just a
tool**

**Notifications out of
the box**

**Everyone able to
deploy**

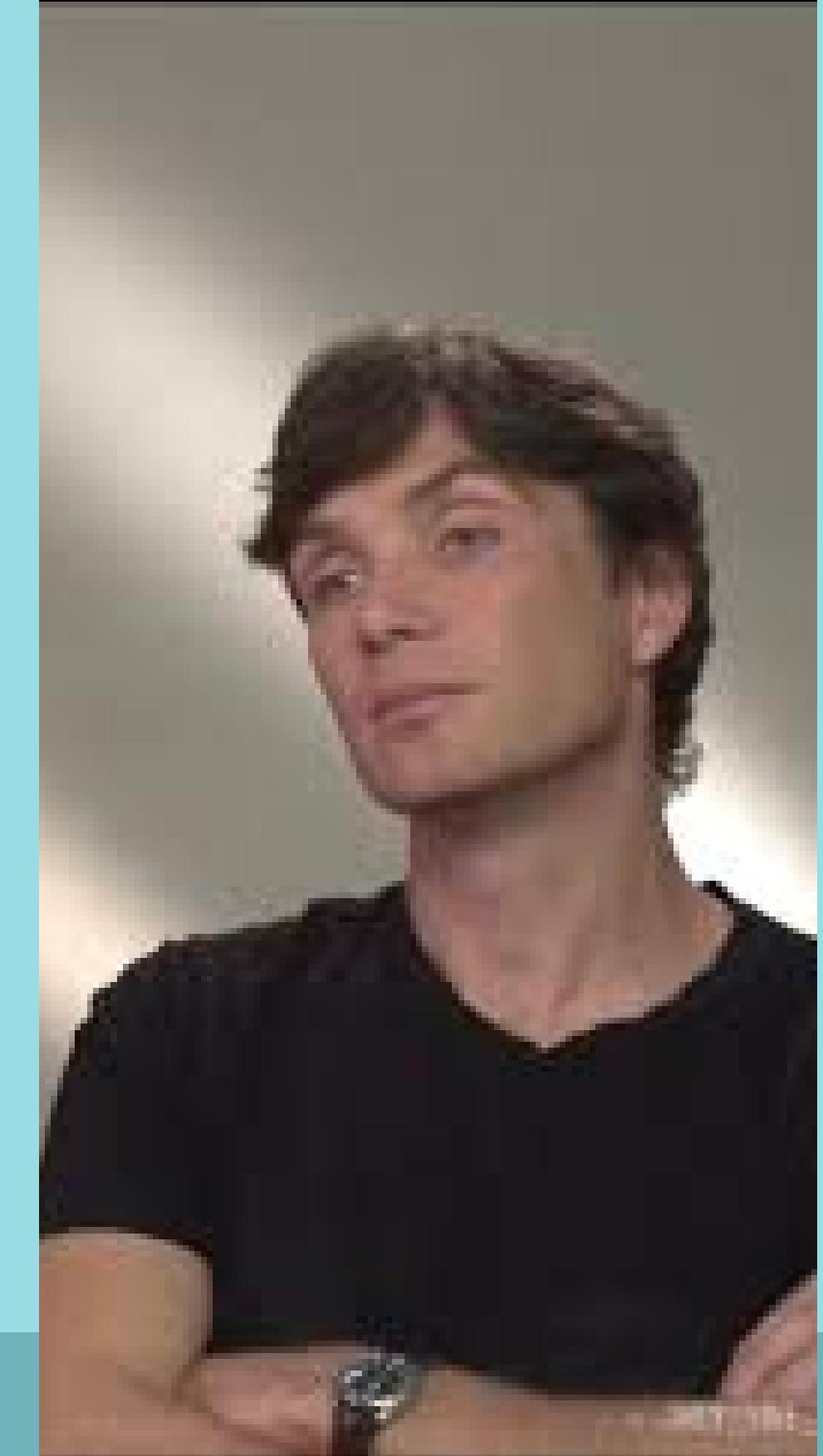
Options

? Custom stuff



Options

- ✗ Custom stuff
- ? Jenkins/Ansible



Options

- ✗ Custom stuff
- ✗ Jenkins/Ansible
- ? AWS (CodeDeploy, CodePipeline, CloudWatch...)



Options

- X Custom stuff**
- X Jenkins/Ansible**
- X AWS (CodeDeploy, CodePipeline, CloudWatch...)**
- ? Github actions**



Options

- ~~X~~ Custom stuff
- ~~X~~ Jenkins/Ansible
- ~~X~~ AWS (CodeDeploy, CodePipeline, CloudWatch...)
- ~~X~~ Github actions
- ~~?~~ Codefresh



On paper...



A flexible and managed service



A partner to work with, not just a tool



Everyone able to deploy

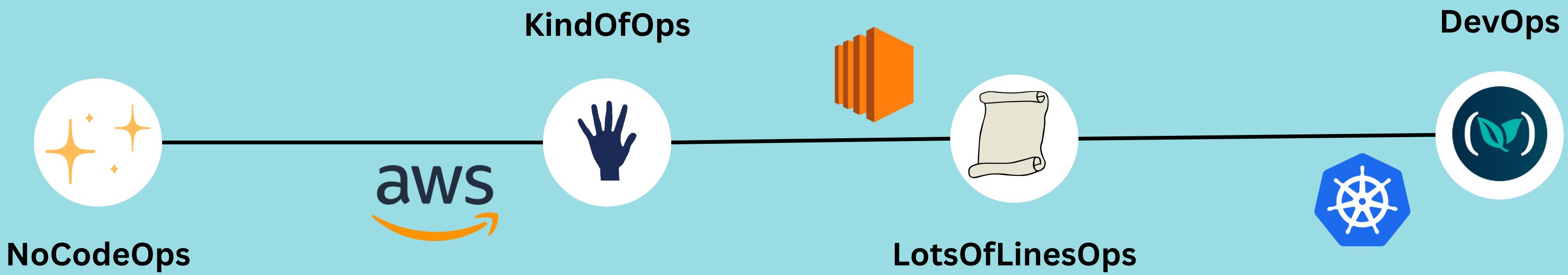


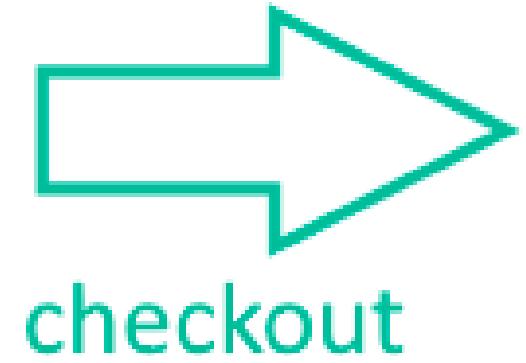
Metrics metrics metrics



Notifications out of the box

2016



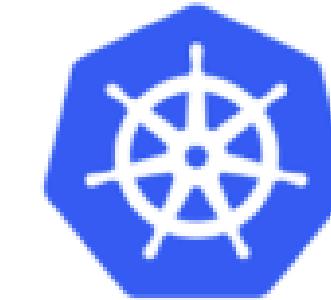


checkout

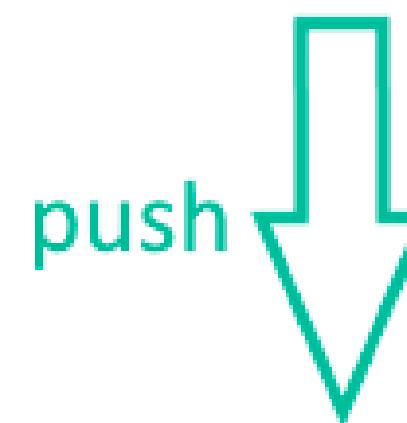


codefresh

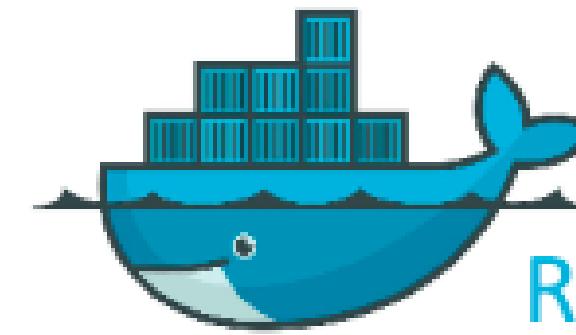
deploy



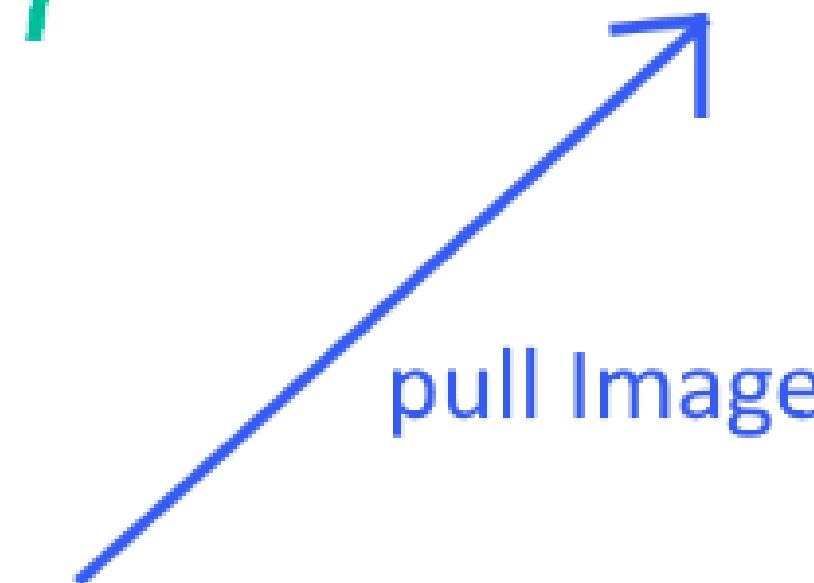
kubernetes



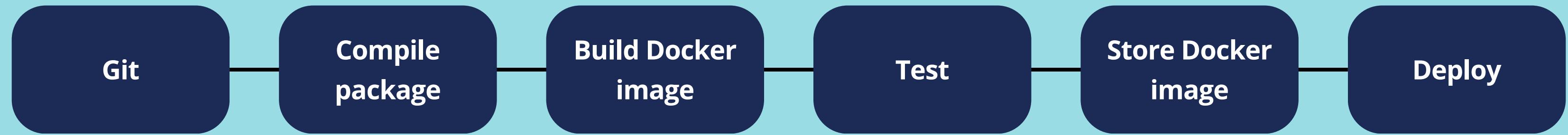
push



docker
Registry



pull Image





**Did you say
YAML?**

★ Getting Started

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+ ADD FILTER



Search By Name



+ NEW PIPELINE

SORT

Recent Activity

Desc

SHOW

10

1 - 10 of 371

< PREV

1

2

3

4

5

6

...

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NEXT >

atacos credimi/atacos		DURATION 5:09m	SUCCESS 73%	LAST EXECUTION 9/11/2023, 14:45	RUN		
atacos_legacy atacos		DURATION 0m	SUCCESS 0%	LAST EXECUTION 24/2/2021, 19:50	RUN		
marisa credimi/marisa		DURATION 24s	SUCCESS 0%	LAST EXECUTION 10/11/2023, 18:04	RUN		
graphql-api-gateway credimi/graphql-api-gateway		DURATION 7:26m	SUCCESS 33%	LAST EXECUTION 10/11/2023, 11:05	RUN		
anagrafe credimi/anagrafe		DURATION 7:57m	SUCCESS 73%	LAST EXECUTION 10/11/2023, 16:09	RUN		
bancacfplus-salesforce-auth-token credimi/bancacfplus-salesforce		DURATION 1:27m	SUCCESS 100%	LAST EXECUTION 10/11/2023, 17:18	RUN		
neo-vatcheckerex credimi/neo-vatcheckerex		DURATION 5:23m	SUCCESS 100%	LAST EXECUTION 10/11/2023, 10:52	RUN		
node-side credimi/node-side		DURATION 0m	SUCCESS 100%	LAST EXECUTION 10/11/2023, 10:52	RUN		

Create New Pipeline

Pipelines allow you to create build and deployment flows

PROJECT



Projects are used to group pipelines and other settings together

PIPELINE NAME

centrale_rischi_fetcher

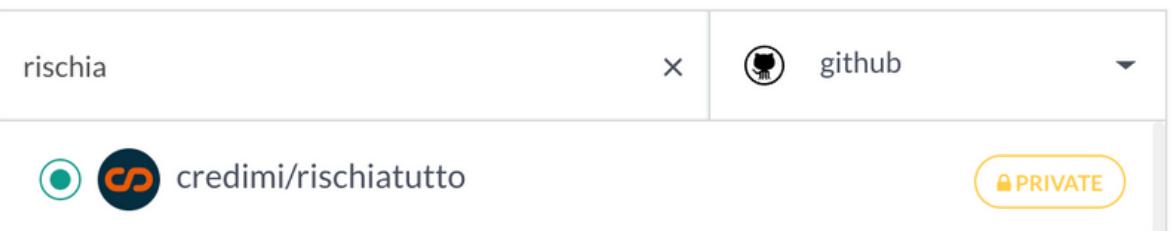
Select a name to describe this pipeline

ADD GIT REPOSITORY

This will add a Git clone step to your pipeline and create a commit trigger. You can add additional triggers to a pipeline, and enable/disable triggers after creation.



ADD GIT CLONE STEP TO PIPELINE



CANCEL

CREATE



credimi/rischiatutto

Search Pipelines

centrale-rischi-fetcher

WORKFLOW

SETTINGS

BUILDS

Use YAML from Repository

STEP MARKETPLACE

credimi/rischiatutto

AUTO SELECT BRANCH

YML ./codefresh.yml

CHANGE

PREVIEW YAML

main

```
1   version: "1.0"
2
3   steps:
4     main_clone:
5       type: git-clone
6       repo: "${{CF_REPO_OWNER}}/${{CF_REPO_NAME}}"
7       revision: "${{CF_REVISION}}"
8       git: github
9
10    set_common_vars:
11      image: alpine:latest
12      commands:
13        - cf_export DB_USER=
14        - cf_export DB_PORT=
15        - cf_export TZ="Europe/Berlin"
16        - cf_export TOPIC="an"
17        - cf_export CR_TOPIC=
18        - cf_export
19          CONFIG="enable.partition.enabled=true"
20          rliest"
```

0 Errors

3 Warnings

SAVE

RUN

STEPS

Search



MARKETPLACE

MY STEPS

Github Actions

Run existing github actions

Fetch secrets from Google Secret Manager

google-secret-manager

Read secrets from Google Secret Manager inside a Codefresh pipeline.

argo-cd-sync

argo-cd-sync

Syncs Argo CD apps managed by our GitOps Runtimes

Argo Workflow Runner

argo-workflow-runner

Submit argo workflow

argocd-app-status

argocd-app-status

Get Argo CD App status and return its sync and health status

argocd-rollout

argocd-rollout

STEPS

TRIGGERS

VARIABLES

HELP

Github - credimi/rischiatutto

Created successfully.

Learn more about Github webhook:

<https://developer.github.com/webhooks/>

Automation examples:

[curl example](#) [Codefresh CLI example](#)[VERIFY TRIGGER](#)

TRIGGER NAME *

credimi/rischiatutto

DESCRIPTION

Trigger description

REPOSITORY *

credimi/rischiatutto

TRIGGER BY *

- | | |
|--|--|
| <input checked="" type="checkbox"/> Push commits | <input checked="" type="checkbox"/> Push tags |
| <input type="checkbox"/> Any Pull request event | <input type="checkbox"/> Pull request opened |
| <input type="checkbox"/> Pull request closed | <input type="checkbox"/> Pull request merged |
| <input type="checkbox"/> Pull request closed (not merged) | <input type="checkbox"/> Pull request reopened |
| <input type="checkbox"/> Pull request edited | <input type="checkbox"/> Pull request assigned |
| <input type="checkbox"/> Pull request unassigned | <input type="checkbox"/> Pull request review requested |
| <input type="checkbox"/> Pull request review request removed | <input type="checkbox"/> Pull request labeled |
| <input type="checkbox"/> Pull request unlabeled | <input type="checkbox"/> Pull request synchronized |
| <input type="checkbox"/> Pull request comment added (restricted) ⓘ | <input type="checkbox"/> Pull request comment added ⓘ |
| <input type="checkbox"/> Release published | <input type="checkbox"/> Release unpublished |
| <input type="checkbox"/> Release created | <input type="checkbox"/> Release edited |
| <input type="checkbox"/> Release deleted | <input type="checkbox"/> Release prereleased |



Need Help?

Checkout our detailed documentation here...

[ADD TRIGGER](#)[RUN](#)

What happens when it runs?



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EVENT Push commits PIPELINE marisa REPO ...mi / marisa ⚡ thes... COMMIT MESSAGE last minute save COMMITTER albx79

FAILED Multiple steps failed ⏱ 21s 2 hours ago Medium 5.46kB LOG EDIT PIPELINE RESTART ⋮

Initializing Process 7s

main_clone Step type: git-clone 2s ✓

set-common-vars Step type: freestyle 3s ✓

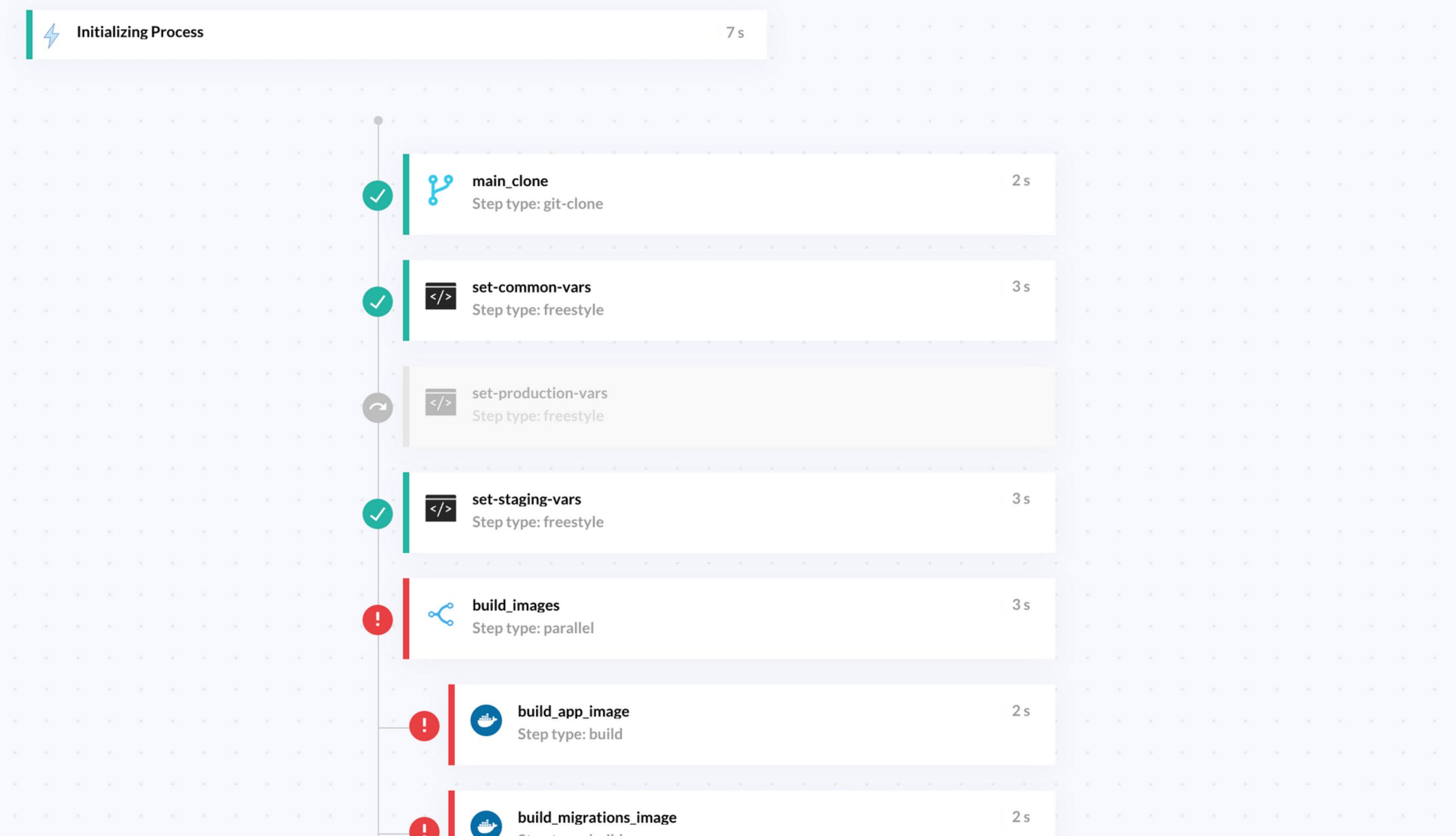
set-production-vars Step type: freestyle ⏪ ↻ 3s

set-staging-vars Step type: freestyle 3s ✓

build_images Step type: parallel 3s !

build_app_image Step type: build 2s !

build_migrations_image Step type: build 2s !



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EVENT

Push commits

PIPELINE

marisa

REPO

...mi / marisa

thes...

COMMIT MESSAGE

last minute save

COMMITTER

albx79

FAILED

Multiple steps failed

21 s

2 hours ago

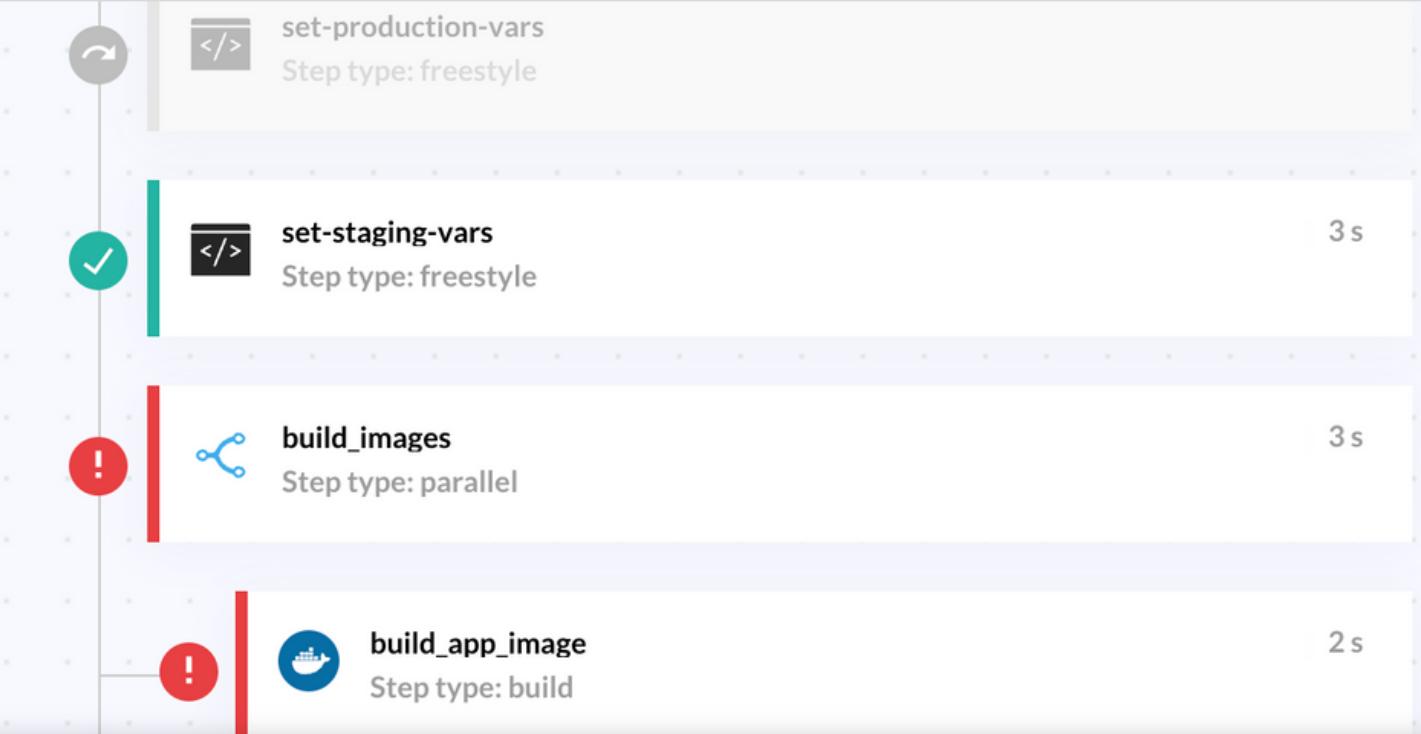
Medium

LOG 5.46 kB

EDIT PIPELINE

RESTART

⋮

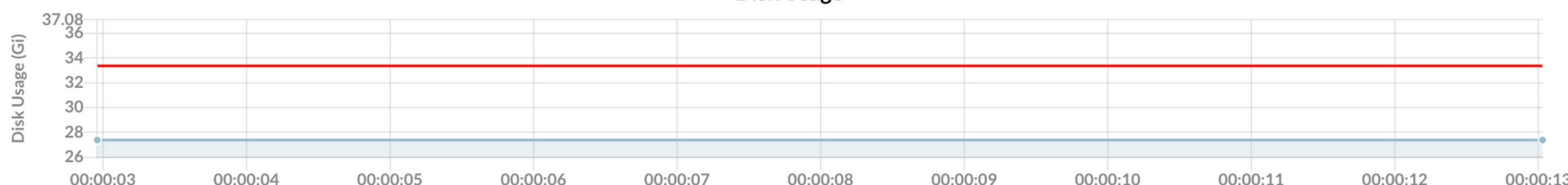


marisa

Memory Usage



Disk Usage



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set-production-vars Step type: freestyle

set-staging-vars Step type: freestyle

build_images Step type: parallel

build_app_image Step type: build

4 Errors

MESSAGE	STEP NAME	STEP TYPE
Failed to prepare dockerfile: 654e62b09e4a665e4025af2b	build_zeebe_deploy_image	error
Failed to prepare dockerfile: 654e62b09e4a665e4025af2b	build_tests_image	error
Failed to prepare dockerfile: 654e62b09e4a665e4025af2b	build_migrations_image	error
Failed to prepare dockerfile: 654e62b09e4a665e4025af2b	build_app_image	error

Output YAML State Metrics Errors 4

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EVENT

Push commits

PIPELINE

marisa

REPO

...mi / marisa

thes...

COMMIT MESSAGE

last minute save

COMMITTER

albx79

FAILED

Multiple steps failed

21s

2 hours ago

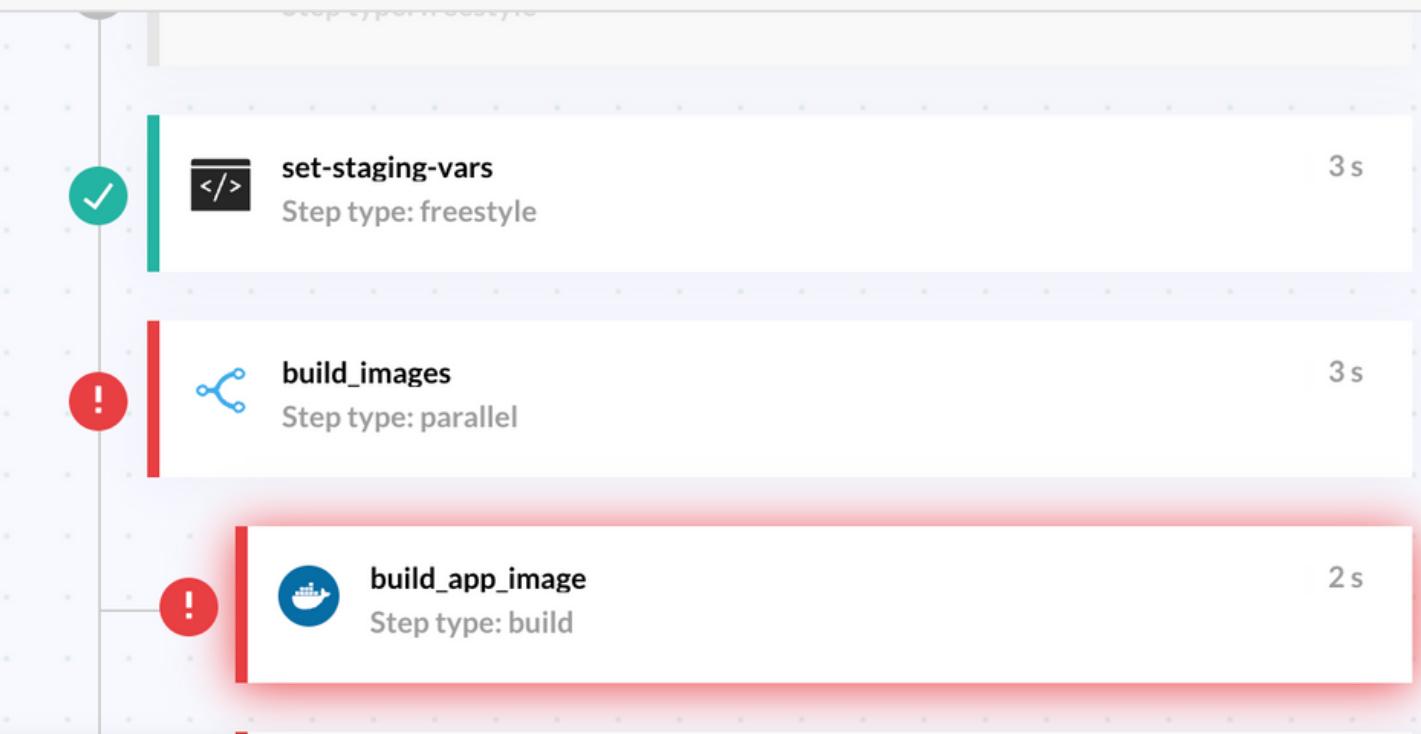
Medium

LOG 5.46kB

EDIT PIPELINE

RESTART

⋮

**build_app_image**

Step type: build

LOG N/A

2s

[COPY TO CLIPBOARD](#)[DOWNLOAD LOG AS HTML](#)[DOWNLOAD LOG AS TEXT](#)[FILTER LOG](#)

Preparing build

[SYSTEM]

Message Failed to prepare dockerfile: 654e62b09e4a665e4025af2b

Caused by Failed to fetch the Dockerfile from path: /codefresh/volume/marisa/Dockerfile

Documentation Link <https://codefresh.io/docs/docs/codefresh-yaml/steps>

Output

YAML

State

Errors 4

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Initializing Process 7s

main_clone Step type: git-clone 2s ✓

set-common-vars Step type: freestyle 3s ✓

set-production-vars Step type: freestyle ⏪ ↻ 3s

set-staging-vars Step type: freestyle 3s ✓

build_images Step type: parallel 3s !

build_app_image Step type: build 2s !

build_migrations_image Step type: build 2s !

From Beginning

From Failed Steps

DEBUG

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EVENT
Push commitsPIPELINE
marisa

REPO

...mi / marisa ↗ thes...

COMMIT MESSAGE

last minute save

COMMITTER

albx79

RUNNING

Executing Initializi...

in progress

a few seconds ago

Medium

MEMORY 93.00MiB

LOG N/A



EDIT PIPELINE

STOP



Pipeline in debug mode, please add breakpoints

CONTINUE



main_clone

Step type: git-clone



set-common-vars

Step type: freestyle



set-production-vars

Step type: freestyle



set-staging-vars

Step type: freestyle



build_images

Step type: parallel

Break after step initialization but
before step execution

build_app_image

Step type: build



build_migrations_image

Step type: build

Add Breakpoint

 Before Override After

Output

YAML

State

Metrics

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EVENT

Push commits

PIPELINE

marisa

REPO

...mi / marisa

thes...

COMMIT MESSAGE

last minute save

COMMITTER

albx79

RUNNING

Executing build...

in progress

a few seconds ago

Medium



MEMORY

106.11MiB



LOG

2.14kB



EDIT PIPELINE

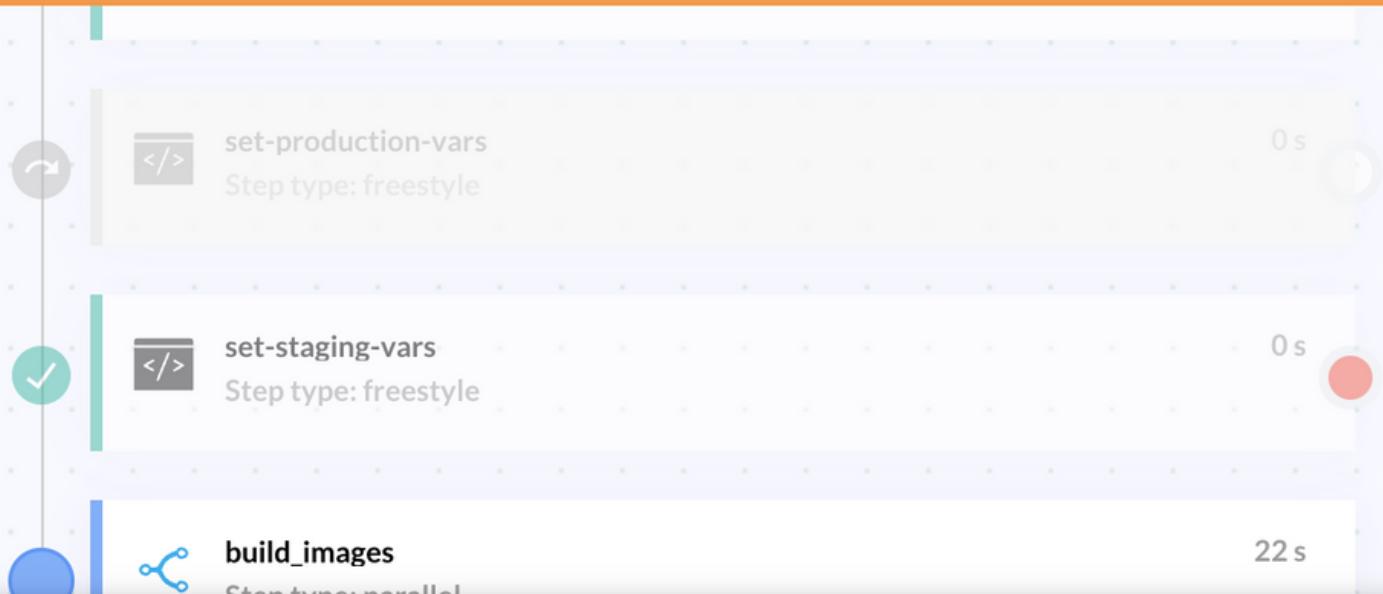
STOP

⋮



Step "build_zeebe_deploy_image" failed. Set breakpoint and debug failed step.

CONTINUE

[build_app_image](#)

Debug phases: Before



CPU



MEMORY



LOG

22 s

[DEBUG CONSOLE](#)

BEFORE

OVERRIDE

AFTER

CONTINUE

Debug Status: "before"

root@codefresh:/codefresh/volume#

Output

YAML

State

Debugger

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EVENT

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...mi / marisa

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COMMIT MESSAGE

last minute save

COMMITTER

albx79

RUNNING

Executing build...

in progress

a few seconds ago

Medium

MEMORY

106.11MiB

LOG

2.14kB



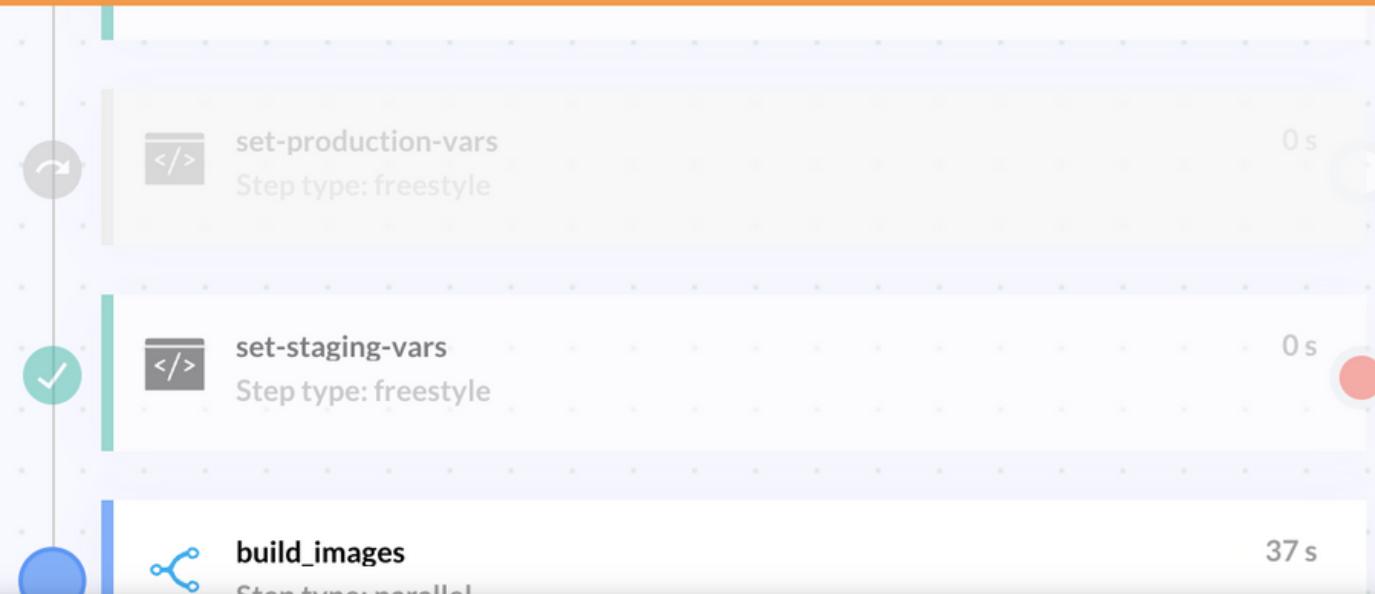
EDIT PIPELINE

STOP



Step "build_zeebe_deploy_image" failed. Set breakpoint and debug failed step.

CONTINUE



build_app_image

Debug phases: Before

CPU N/A

MEMORY N/A

LOG N/A

38 s



DEBUG CONSOLE

BEFORE

OVERRIDE

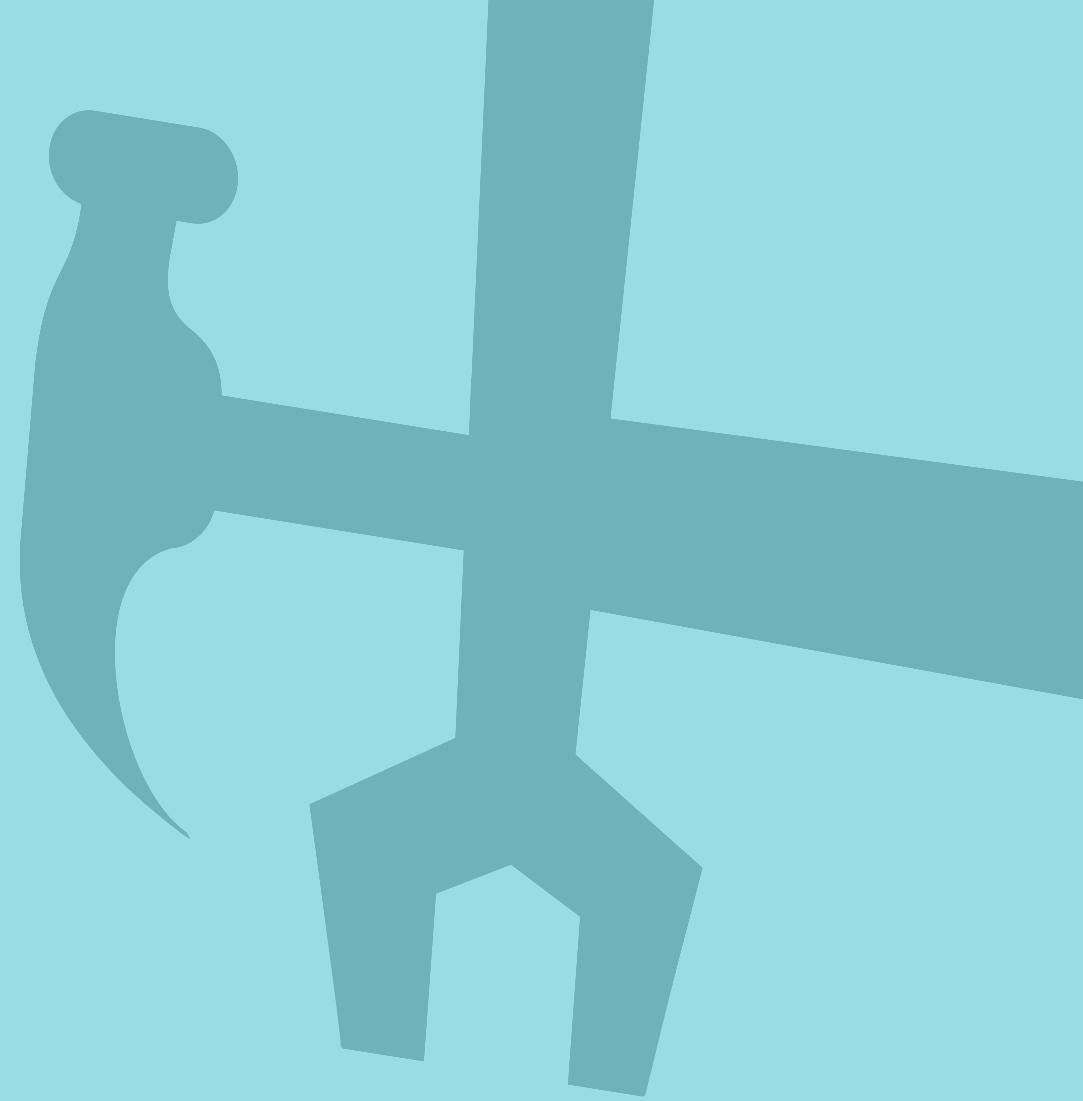
AFTER

CONTINUE

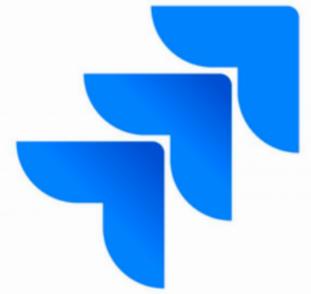
Debug Status: "before"

```
root@codefresh:/codefresh/volume# ls
cf_export          free_disk_space      setup_debugger.sh
env_vars_to_export marisa
event.json         sensitive
root@codefresh:/codefresh/volume#
```

What have we built?



THES-1234



THES-1234

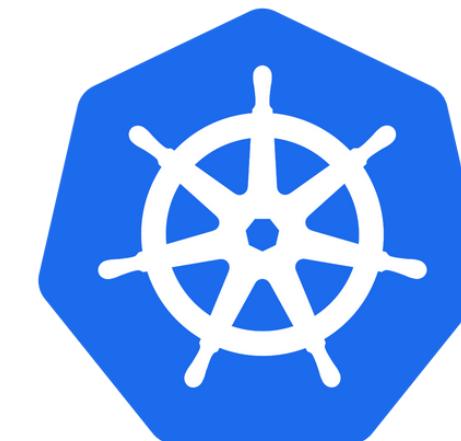


```
[~/code/rischiatutto (main) » git co -b thes-1234
Switched to a new branch 'thes-1234'
```

THES-1234



```
[~/code/rischiatutto (main) » git co -b thes-1234
Switched to a new branch 'thes-1234'
```



```
(*|qa-eks.credimi.com:main)
-----
~/code/rischiatutto (thes-1234) » kubens thes-1234
Context "qa-eks.credimi.com" modified.
Active namespace is "thes-1234".
(*|qa-eks.credimi.com:thes-1234)
-----
~/code/rischiatutto (thes-1234) » █
```



Show me the
data



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bancacfplus-salesforce-auth-token credimi/bancacfplus-salesforce		DURATION 1:27m	SUCCESS 100%	LAST EXECUTION 10/11/2023, 17:18	RUN		
neo-vatcheckerex credimi/neo-vatcheckerex		DURATION 5:23m	SUCCESS 100%	LAST EXECUTION 10/11/2023, 10:52	RUN		
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Pipelines Dashboard

Last update: 20:31

Project

Pipeline

Status

Tags

Date Range

Select

Select

Select

Select



2023-10-01

→ 2023-11-10



Hourly Daily

Success Rate

61% 17%▲



Pipeline Duration

13m 48s 51%▲

Avg P-50 P-90



Pipeline Duration

— Running 3%▲ — Initializing 2%▲ — Pending concurrency policy 865%▲

41m 40s

33m 20s

25m 0s

16m 40s

8m 20s

0s

Oct 1

Oct 3

Oct 5

Oct 7

Oct 9

Oct 11

Oct 13

Oct 15

Oct 17

Oct 19

Oct 21

Oct 23

Oct 25

Oct 27

Oct 29

Oct 31

Nov 2

Nov 4

Nov 6

Nov 8

Nov 10

Wed, Nov 8, 2023

Running

Initializing

Pending concurrency policy

Total Duration

4m 28s

5s

18m 20s

22m 54s

2h 46m

8h 20m

5h 33m

3h 15m

2h 46m

1h 58m

55s

1m 20s

1m 40s

1m 55s

2m 10s

2m 30s

3m 10s

3m 30s

4m 10s

4m 30s

5m 10s

5m 30s

6m 10s

6m 30s

7m 10s

7m 30s

8m 10s

8m 30s

9m 10s

9m 30s

10m 10s

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11m 10s

11m 30s

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36m 30s

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37m 30s

38m 10s

38m 30s

39m 10s

39m 30s

40m 10s

40m 30s

41m 10s

41m 30s

42m 10s

42m 30s

43m 10s

43m 30s

44m 10s

44m 30s

45m 10s

45m 30s

46m 10s

46m 30s

47m 10s

47m 30s

48m 10s

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55m 10s

55m 30s

56m 10s

56m 30s

57m 10s

57m 30s

58m 10s

58m 30s

59m 10s

59m 30s

Getting Started

Home Dashboard

PIPELINES

Projects

Pipelines

Builds

Steps

OPS

GitOps Classic

GitOps Apps

Helm Boards

Kubernetes Services

Helm Releases

Environments

ARTIFACTS & INSIGHTS

DORA Metrics

Images

Helm Charts

Compositions

Success Rate

61% 17%▲



Pipeline Duration

13m 48s 51%▲



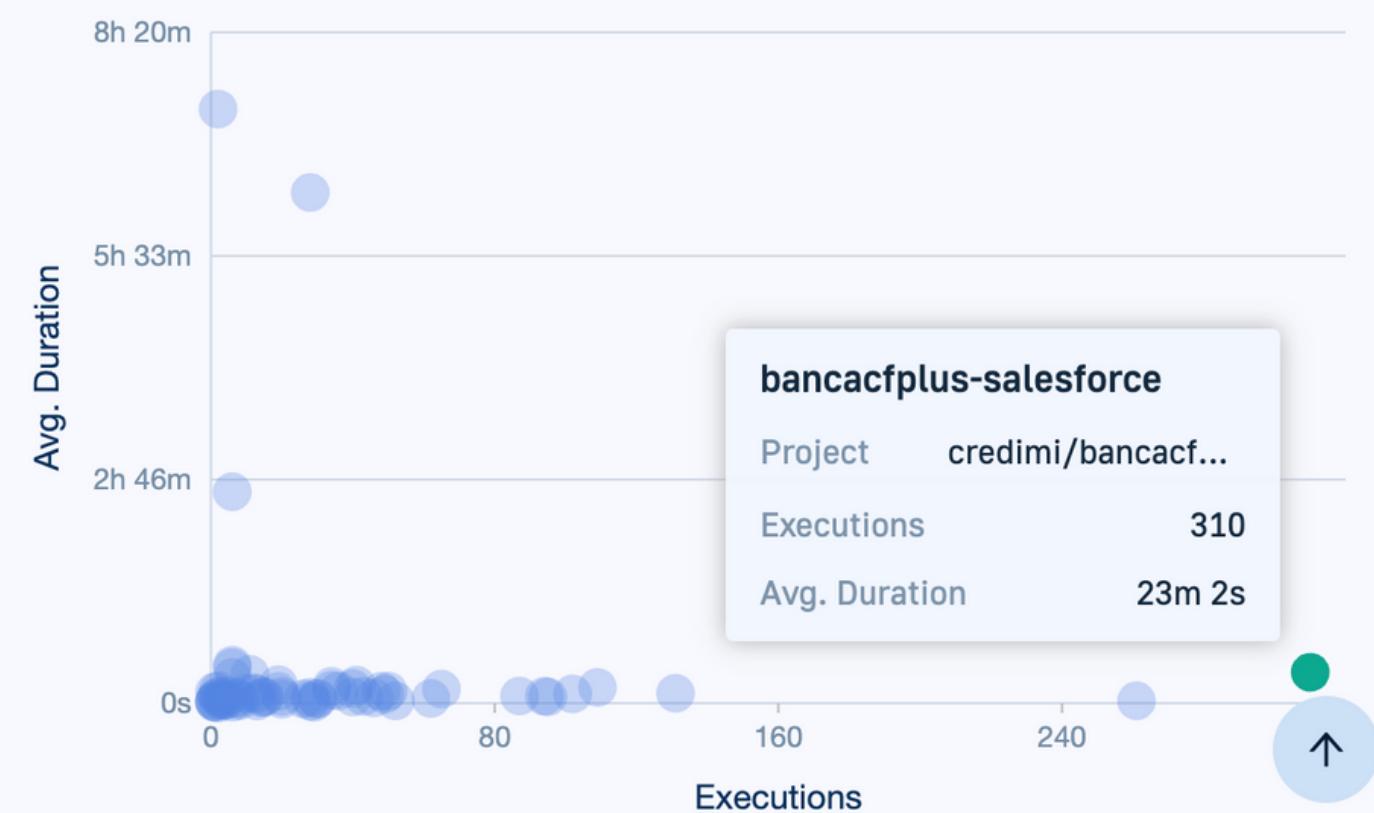
Avg P-50 P-90

Pipeline Duration



Pipeline Performance

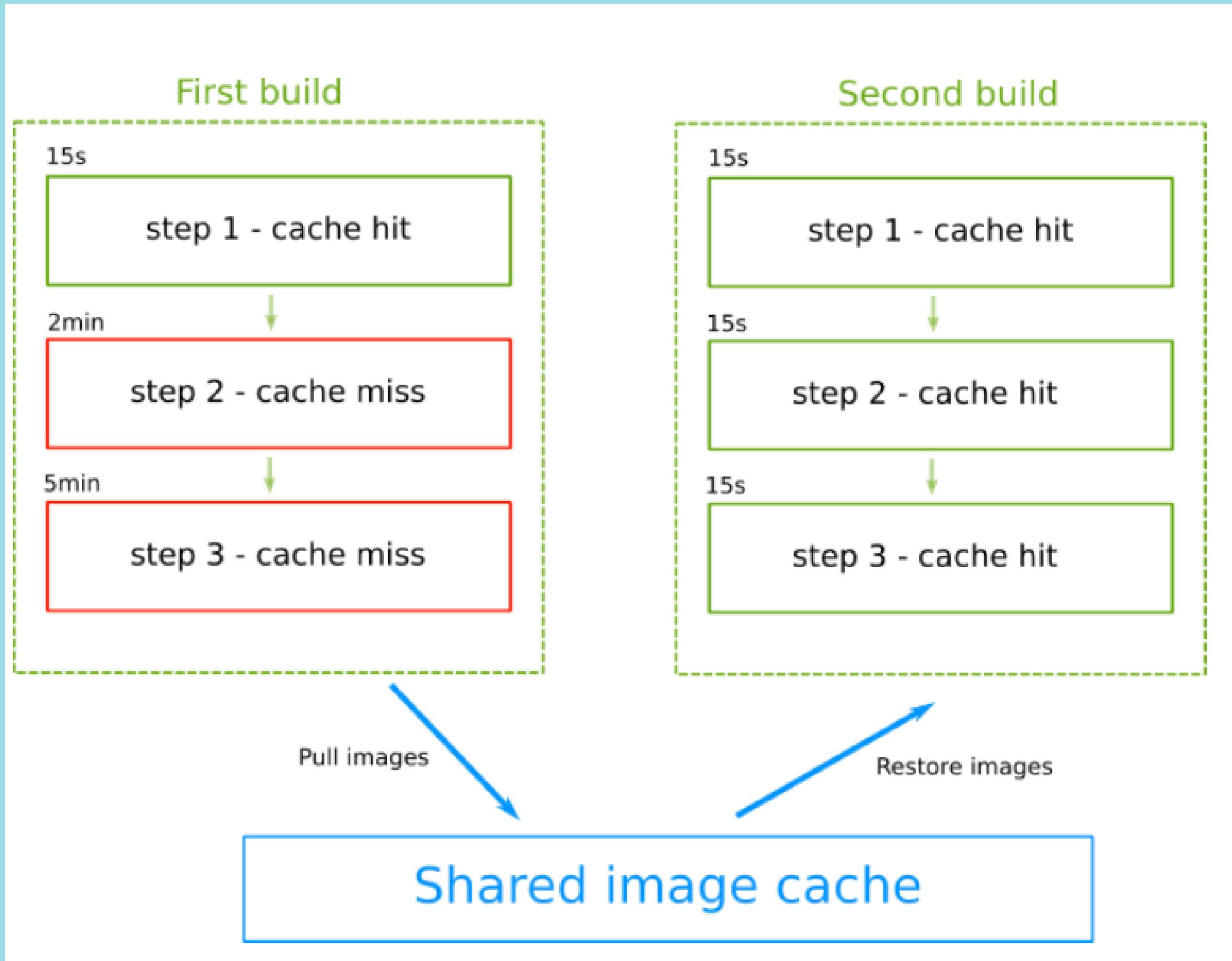
Pipeline Name	Project Name	Executions	Duration (Avg)
bancacfplus-...	credimi/banc...	310 12%▼	23m 2s 5%▼
bancacfplus-...	credimi/banc...	261 10%▼	1m 48s 12%▲
graphql-api-g...	credimi/grap...	131 89%▲	7m 26s 46%▲
tiger-man	credimi/tiger...	109 7%▼	11m 46s 48%▲
anagrafica-xf	credimi/anag...	102 50%▲	6m 55s 35%▼



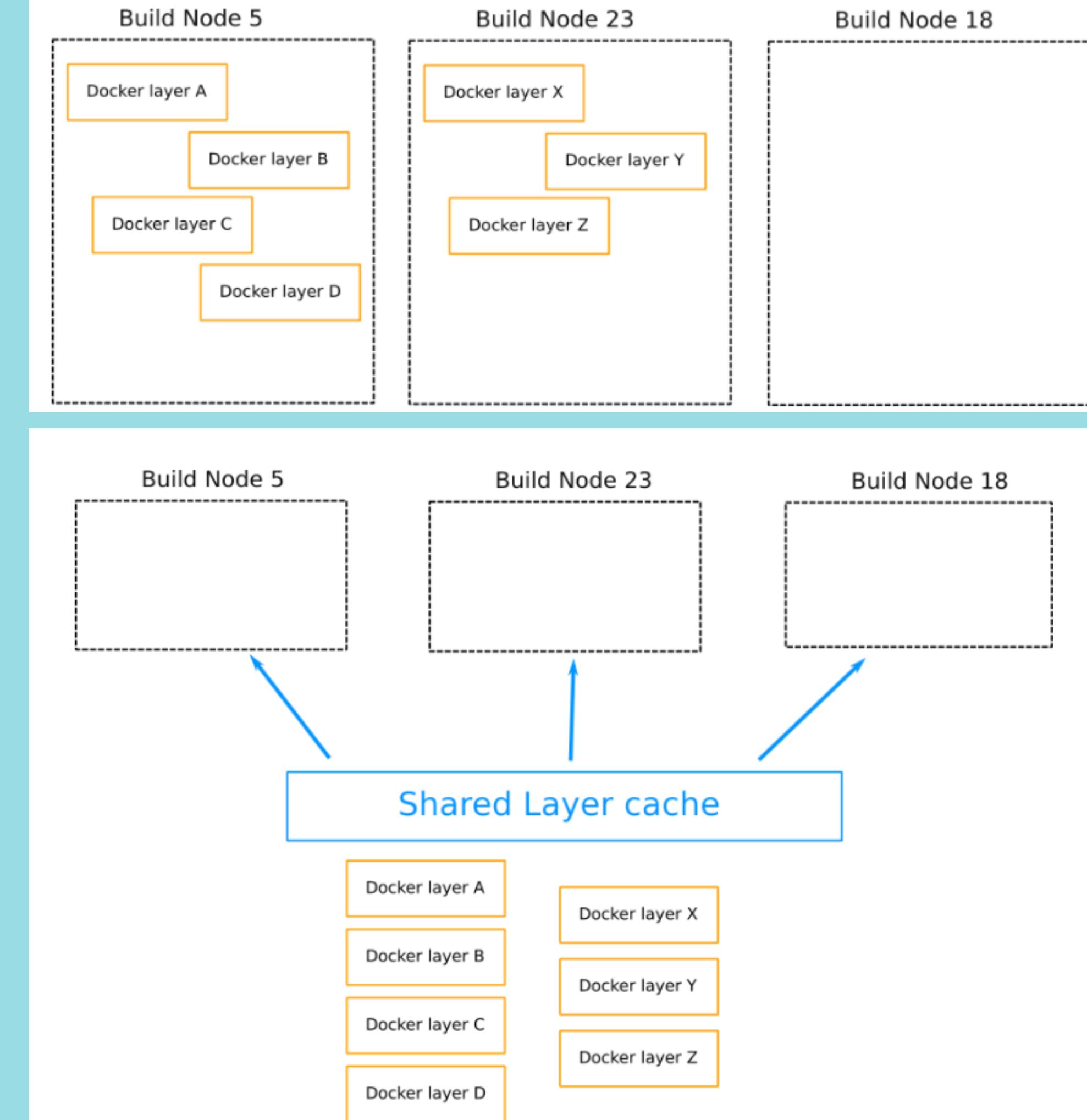
Caching



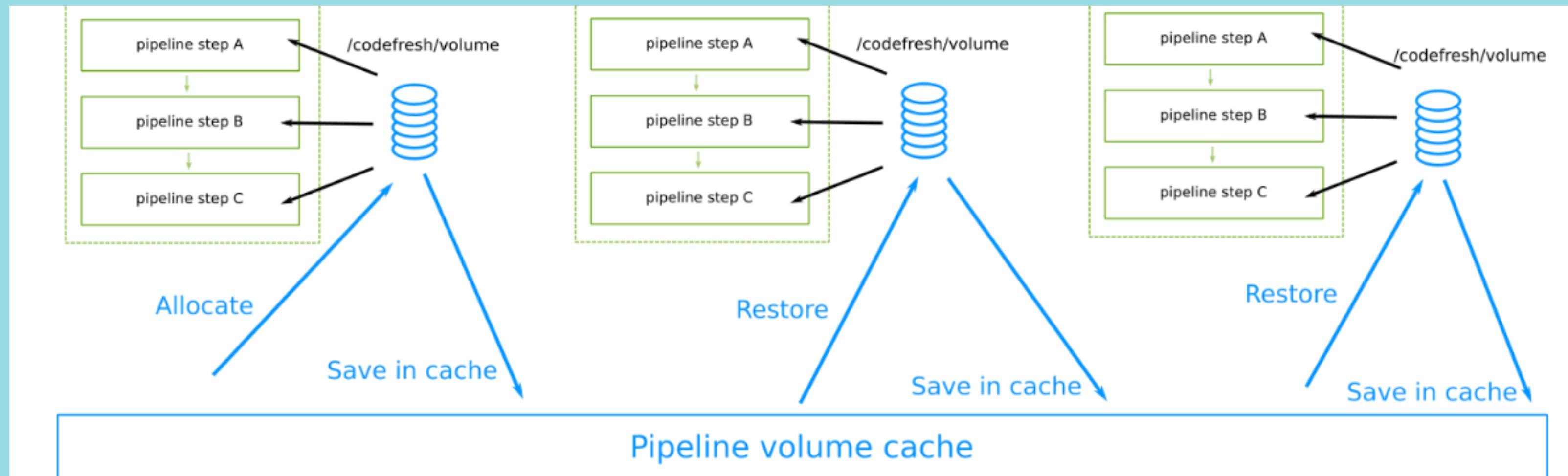
Distributed Docker image caching



Distributed Docker layer caching



Traditional build caching



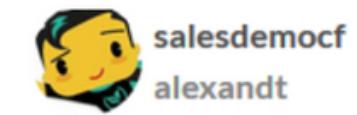
Stages organization

Builds

Help

* UPGRADE *

ADD REPOSITORY



COMPLETED

STEPS
19/19
START TIME
20 hours ago
DURATION
5 min 4 s

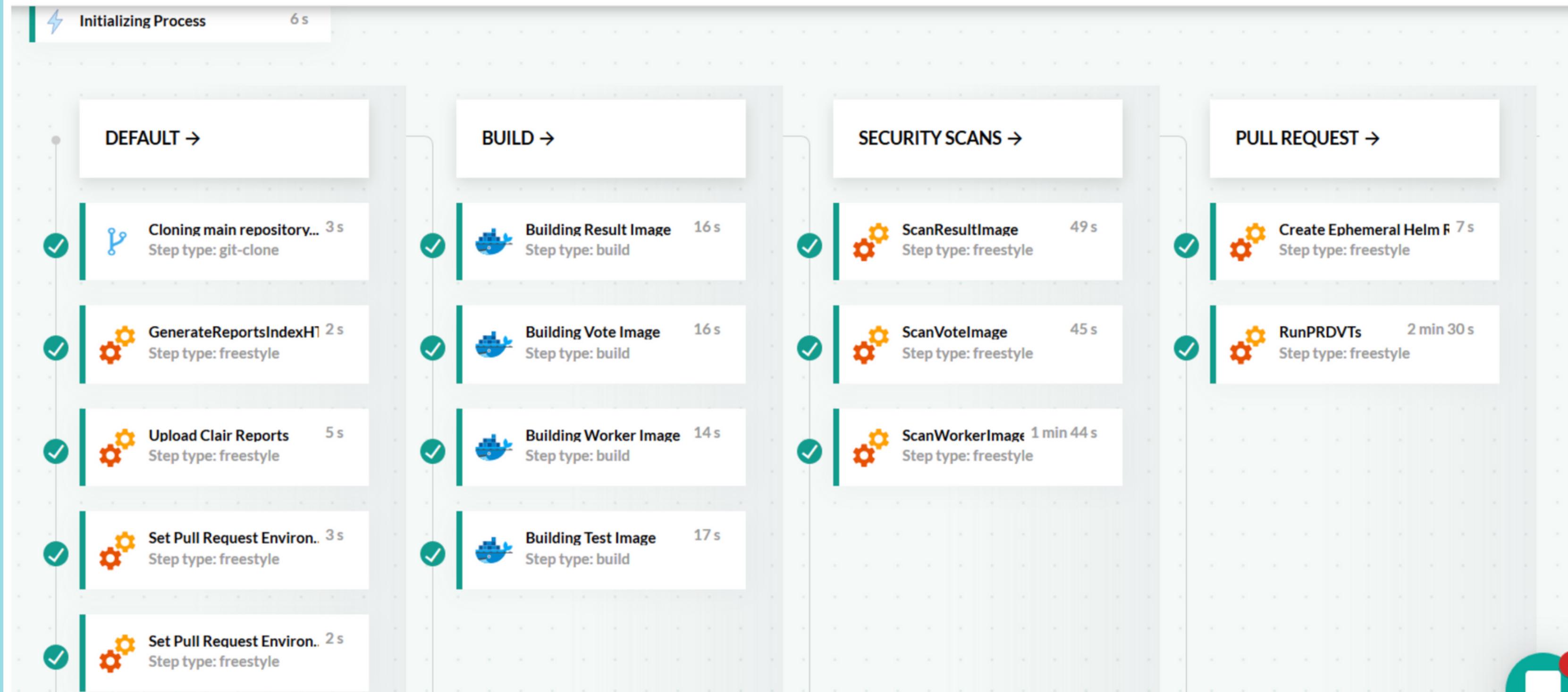
REPOSITORY
salesdemocf/example-voting...

COMMIT
new-vote-for-vcs/856fcfd

Pipeline
example-voting-app

LOG
1.11 MB

RESTART



Keeping the pipelines DRY

Shared Configuration

+ ADD CONFIGURATION CONTEXT ▾

▼ config (my-global-config) 2 items

COPY VARIABLES

foo	=	bar
-----	---	-----

NEW VARIABLE

my-variable	=	my-value
-------------	---	----------

+ ADD VARIABLE

SAVE

▶ secret (my-global-secret-config) 1 items

▶ secret-yaml (my-secret-yaml)

▶ yaml (my-yaml)

Keeping the pipelines DRY

```
$codefresh get context my-global-config --output=yaml  
  
apiVersion: v1  
kind: context  
metadata:  
  default: false  
  system: false  
  name: my-global-config  
type: config  
spec:  
  type: config  
  data:  
    foo: bar
```

Keeping the pipelines DRY

```
favorite:  
| drink: coffee  
| food: pizza
```

```
version: '1.0'  
steps:  
MyFavoriteFoodStep:  
| title: Favorite food  
| image: codefresh/cli  
commands:  
| - echo I love eating $(codefresh get context my-food-values --output=json | jq -r '.spec.data.favorite.food')|
```

```
I love eating pizza
```

Keeping the pipelines DRY

```
version: "1.0"
kind: pipeline
metadata:
  name: default/test-shared-config-from-pipe-spec
spec:
  contexts:
    - test-hello
  steps:
    test:
      image: alpine
      commands:
        - echo ${test} # should output "hello"
```

Quick Search

⌘ + K

Builds: Custom view*



pamela-gotti
instapartners

▼

Hide Filters (2)

Clear Filters

Save as View

Today

This week

This month

Last 3 Months

Last 6 Months

Start date

End date



pipeline



is



credimi/documents/documents



branch



is



release-20231102b



ALL

RUNNING 0

PENDING 0

DELAYED 0



EVENT

Push tags

PIPELINE

documents

REPO

credimi / documents

release-20231102b

COMMIT

6ae46...



Build Completed Successfully

3 min 56 s

10 days ago

Large

RESTART



What if the deploy goes wrong?

What's next?

(aka what I would love to do and what I actually can do)



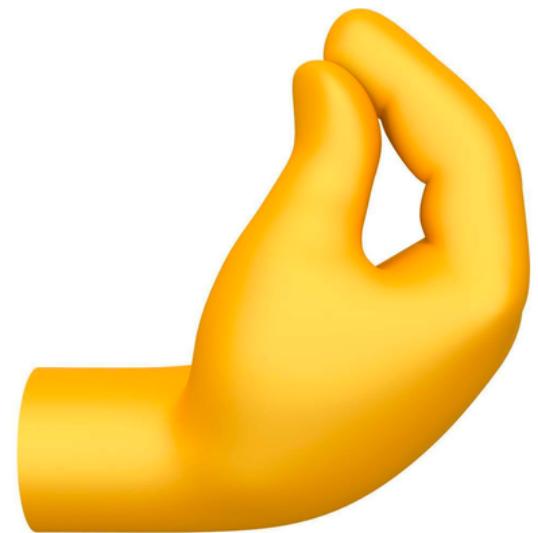
Towards Gitops (for real)

- ✓ The system is described in a declarative manner
- ✓ The definition of the system is versioned and audited
- ✗ A software agent automatically pulls the Git state and matches the platform state
- ✗ The state is continuously reconciled. Any changes happening in Git should also be reflected in the system

Towards Gitops -> Argo CD

- ✓ The system is described in a declarative manner
- ✓ The definition of the system is versioned and audited
- ✓ A software agent automatically pulls the Git state and matches the platform state
- ✓ The state is continuously reconciled. Any changes happening in Git should also be reflected in the system

Hold on: did you say CD in production?



PENDING APPROVAL

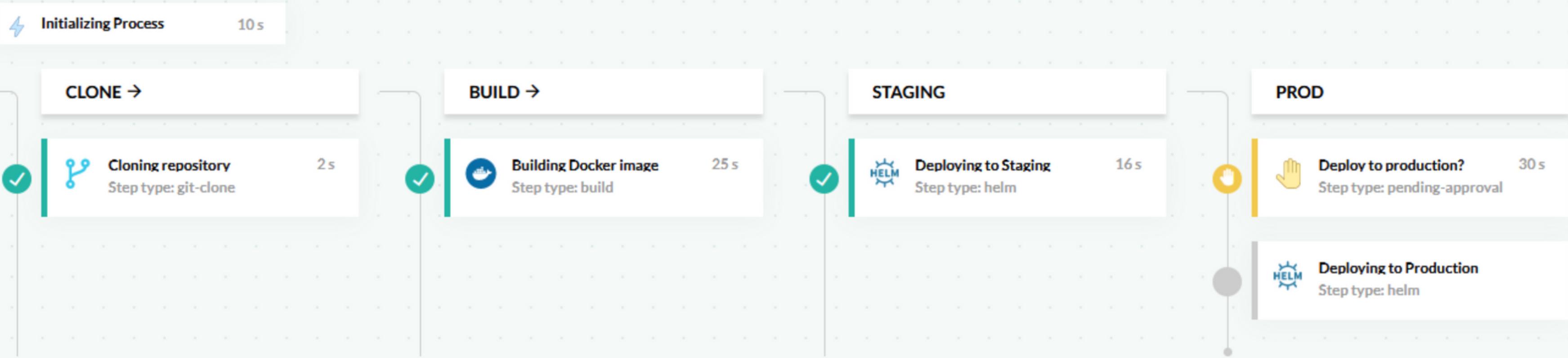
⌚ pending approval

🕒 a minute ago

 8.29kB

EDIT PIPELINE

STOP

**Step: Deploy to production? is waiting approval****APPROVE** **DENY**

Show me the
data (part II)



Runtime Cluster Name Cluster URL Applications Time

Select Select Select Select ★ Start date End date

Totals

Deployments
270

Rollbacks
0

Failure Rate
7.8%

Commits / Pull Requests
8

Daily Weekly Monthly

DORA

Velocity



Stability



Conclusions



A flexible and managed service



A partner to work with, not just a tool



Everyone able to deploy



Metrics metrics metrics



Notifications out of the box



CLOUD DAY 2023



GRAZIE!