



# Concourse

## Managing your docker Image

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Etourneau Gwenn

@The\_shinji62

# About me



Etourneau Gwenn

Sr Solution Architect

Bef.: Platform Architect

Pivotal™



**the\_shinji62**



<https://github.com/shinji62>

# Pivotal

The Pivotal logo consists of the word "Pivotal" in a white, sans-serif font, centered within a solid teal rectangular background.

Pivotal **Labs**

- Cloud Foundry
- Pivotal Tracker
- Gemfire
- Spring Framework
- RabbitMQ
- Concourse

# Agenda

- Docker Image
- Pipeline
- Demo
- Q&A

# Docker image

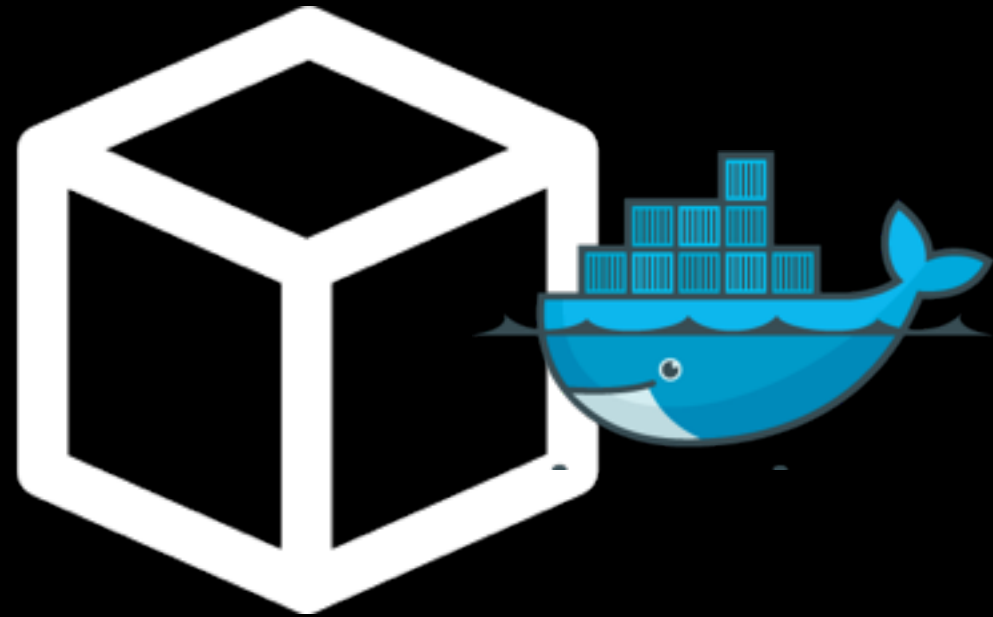
# Building docker Image



dockerFile

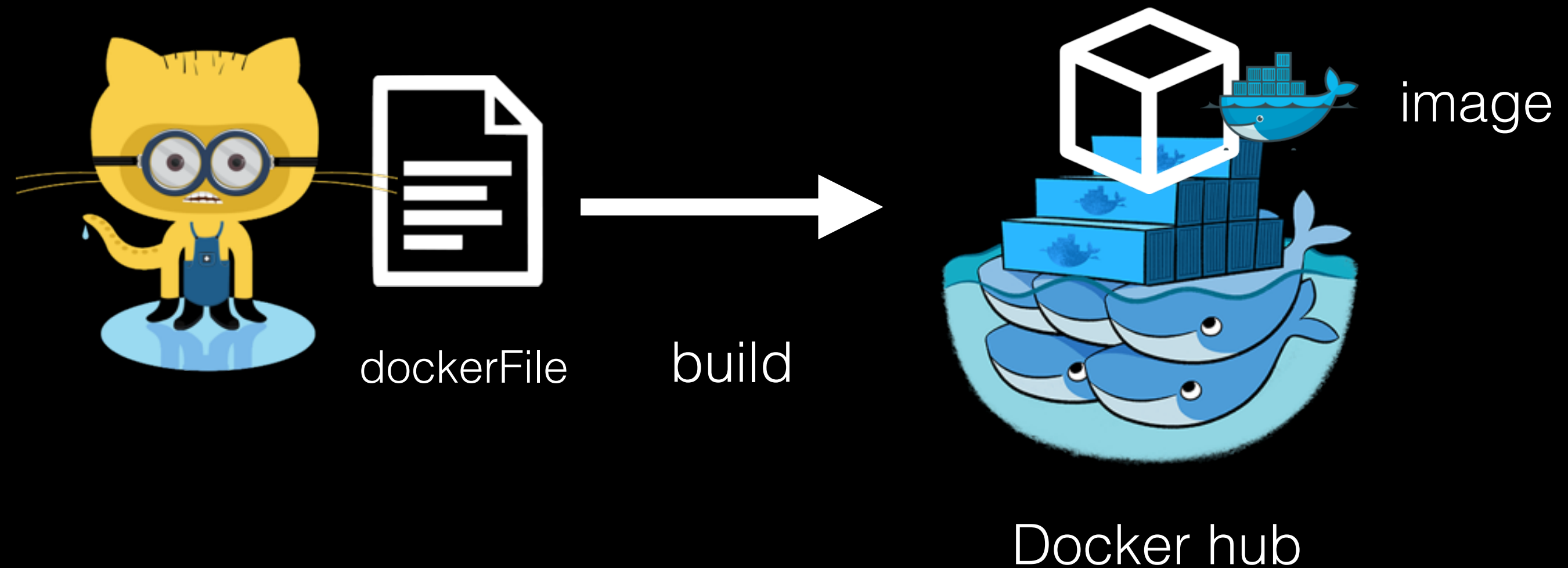


build



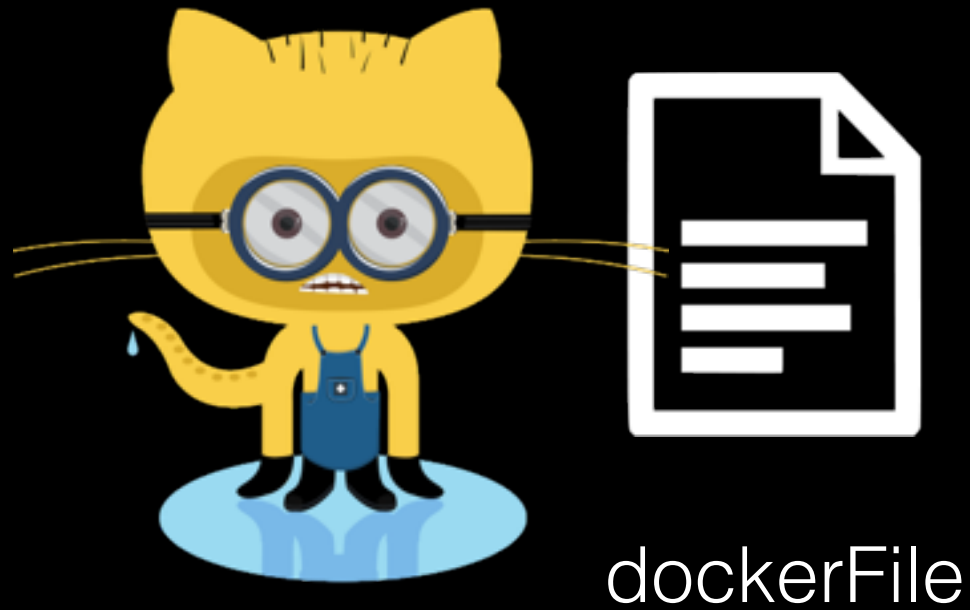
image

# Source management



# Trigger 1

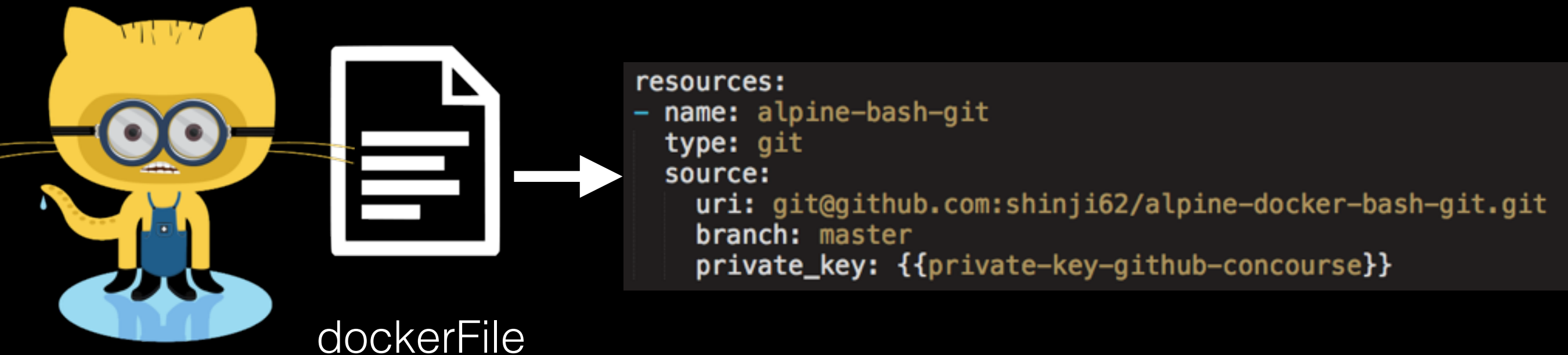
If my dockerFile change I need to build a new Image





# Trigger 1

If my dockerFile change I need to build a new Image



**Git-Resource** checking for new commit



dockerFile

**FROM** alpine:latest

---

**MAINTAINER** blabla <xx@yy>

**RUN** apk upgrade

**RUN** apk add --update \  
bash \  
git \  
tar \  
openssh-client \  
openssh \  
zip

# Trigger 2

If there is a new version of **alpine:latest**  
I want to generate a new docker image



**alpine:latest**



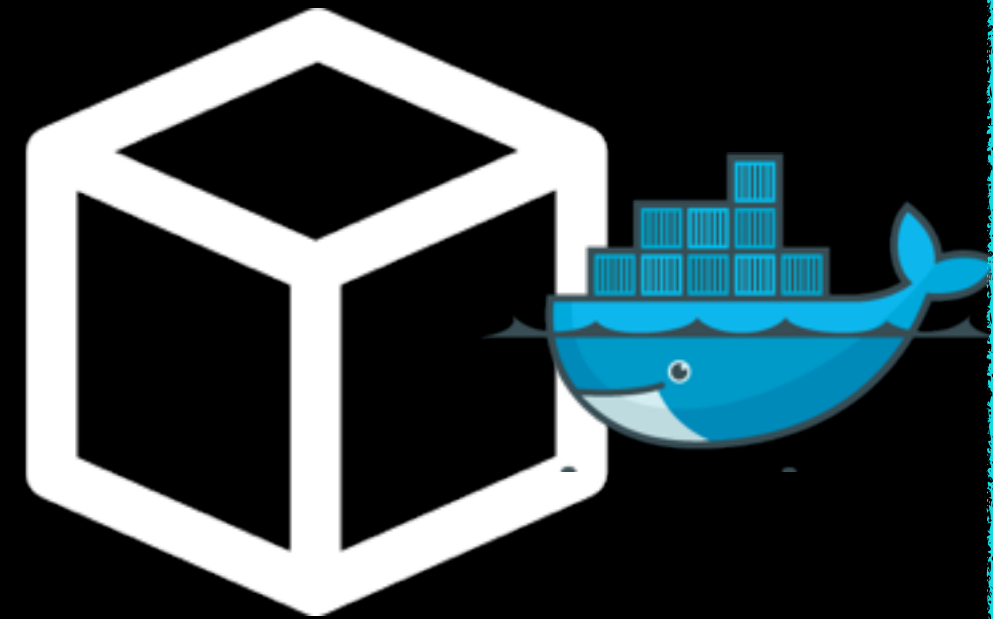
```
- name: alpine-docker-image  
  type: docker-image  
  source:  
    repository: alpine
```

**Docker-Image** Resource checking  
for new version of this image

# Building docker Image

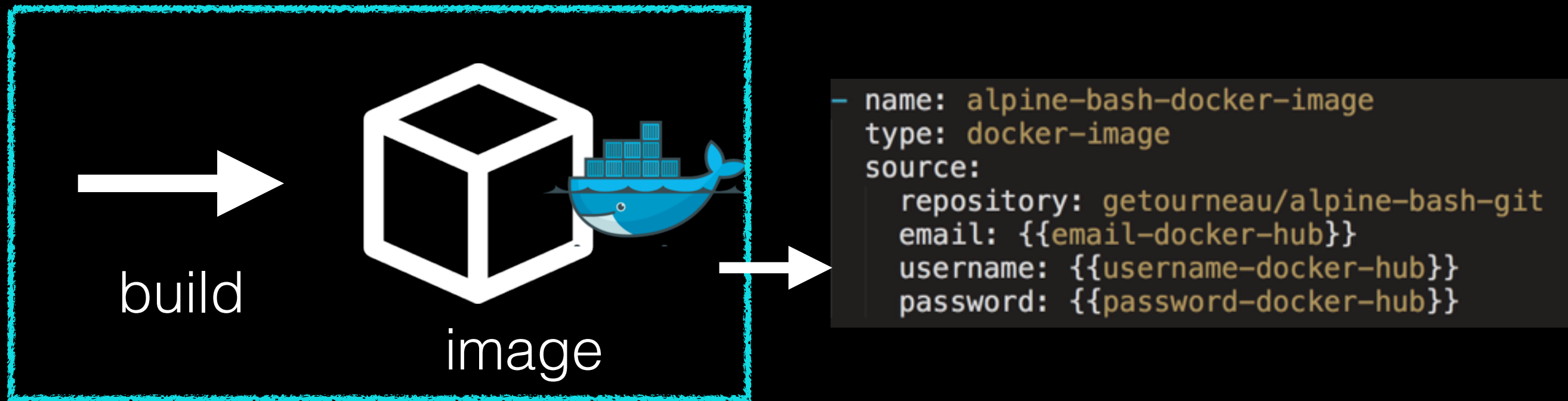


build



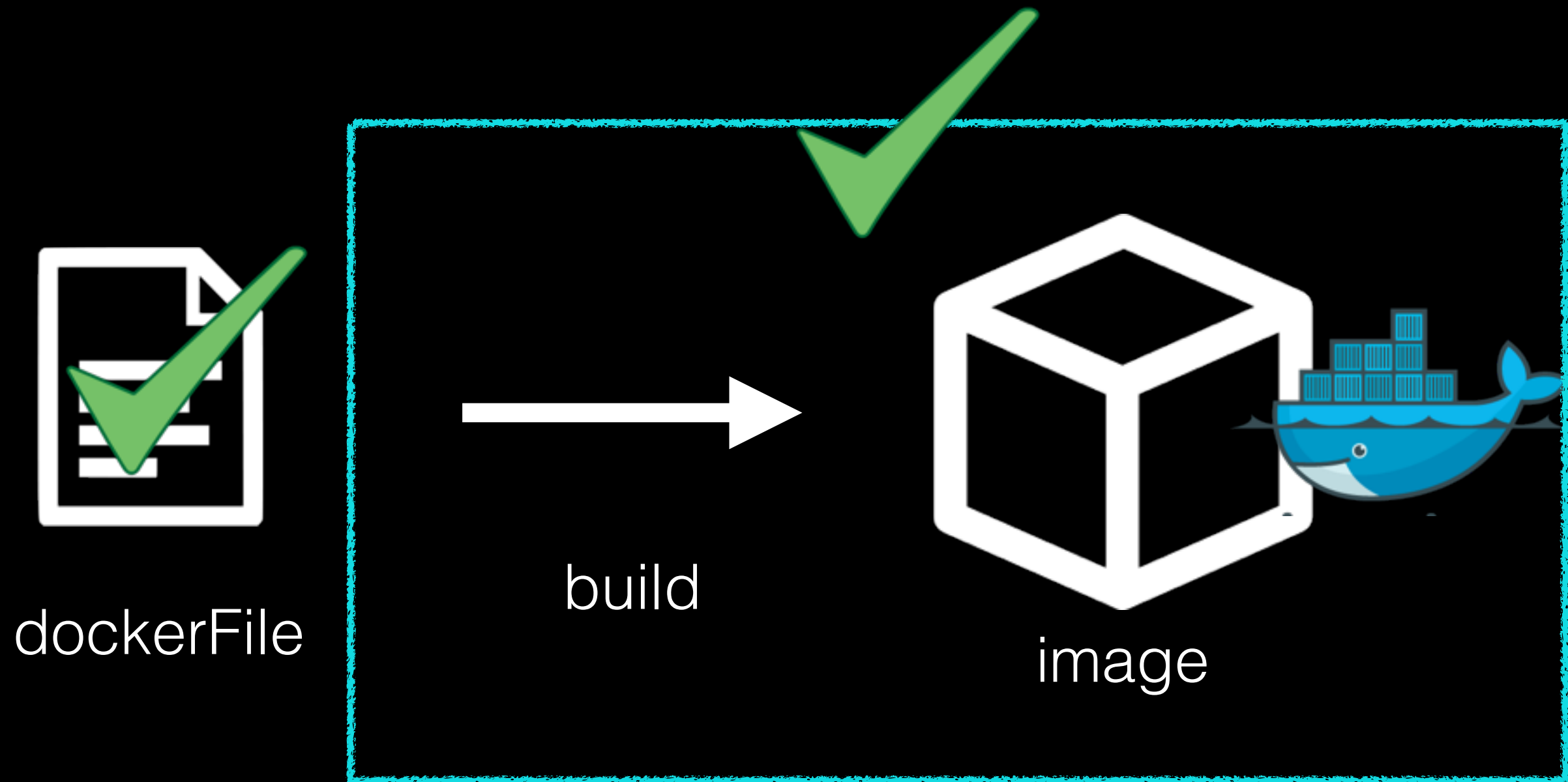
image

# Store and build Image



**Docker-Image** Resource can build and push the docker image

# Building docker Image



# Concourse pipeline

Checking  
for you new docker image and  
new commit in parallel

If one of them have new version  
this job will be trigger

```
jobs:
- name: build-ship-it
  serial: true
  public: true
  plan:
    - aggregate:
      - get: golang-alpine-docker-image
        trigger: true
        params: {save: true}
      - get: alpine-docker-golang-bash
        trigger: true
    - put: version
      params:
        bump: minor
        annotate: version/number
    - put: alpine-bash-docker-image
      params:
        build: alpine-docker-golang-bash/
        tag: version/number
        tag_as_latest: true
        load_base: golang-alpine-docker-imag
    - put: alpine-docker-golang-bash
      params:
        only_tag: true
        repository: alpine-docker-golang-bas
        tag: version/number
```



# Concourse pipeline

Bump the version

```
jobs:
- name: build-ship-it
  serial: true
  public: true
  plan:
    - aggregate:
      - get: golang-alpine-docker-image
        trigger: true
        params: {save: true}
      - get: alpine-docker-golang-bash
        trigger: true
    - put: version
      params:
        bump: minor
        annotate: version/number
    - put: alpine-bash-docker-image
      params:
        build: alpine-docker-golang-bash/
        tag: version/number
        tag_as_latest: true
        load_base: golang-alpine-docker-image
    - put: alpine-docker-golang-bash
      params:
        only_tag: true
        repository: alpine-docker-golang-bash
        tag: version/number
```



# Concourse pipeline

Build new docker image  
tag as latest  
tag with the version  
bump earlier

```
jobs:
- name: build-ship-it
  serial: true
  public: true
  plan:
  - aggregate:
    - get: golang-alpine-docker-image
      trigger: true
      params: {save: true}
    - get: alpine-docker-golang-bash
      trigger: true
  - put: version
    params:
      bump: minor
      annotate: version/number
  - put: alpine-bash-docker-image
    params:
      build: alpine-docker-golang-bash/
      tag: version/number
      tag_as_latest: true
      load_base: golang-alpine-docker-imag
  - put: alpine-docker-golang-bash
    params:
      only_tag: true
      repository: alpine-docker-golang-bas
      tag: version/number
```

# Concourse pipeline

Tag the git repository  
using the version

```
jobs:
- name: build-ship-it
  serial: true
  public: true
  plan:
    - aggregate:
      - get: golang-alpine-docker-image
        trigger: true
        params: {save: true}
      - get: alpine-docker-golang-bash
        trigger: true
    - put: version
      params:
        bump: minor
        annotate: version/number
    - put: alpine-bash-docker-image
      params:
        build: alpine-docker-golang-bash/
        tag: version/number
        tag_as_latest: true
        load_base: golang-alpine-docker-imag
    - put: alpine-docker-golang-bash
      params:
        only_tag: true
        repository: alpine-docker-golang-bas
        tag: version/number
```

# Demo

Q & A

# Thank You !!

