

GitLab CI

Thibaut Salanon

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- ▶ Schéma d'exemple de fonctionnement
- ▶ Configuration : `.gitlab-ci.yml`

- ▶ Fonctionnalité intégrée à GitLab
- ▶ Déclenchement d'actions et création de build sur des événements du dépôt
- ▶ Multi-plateforme, Multi-langage
- ▶ Build en parallèle
- ▶ Compte rendu de build
- ▶ Génération d'artefacts
- ▶ Utilisation possible de Docker et des variables d'environnement
- ▶ Facile à configurer

Schéma d'exemple de fonctionnement

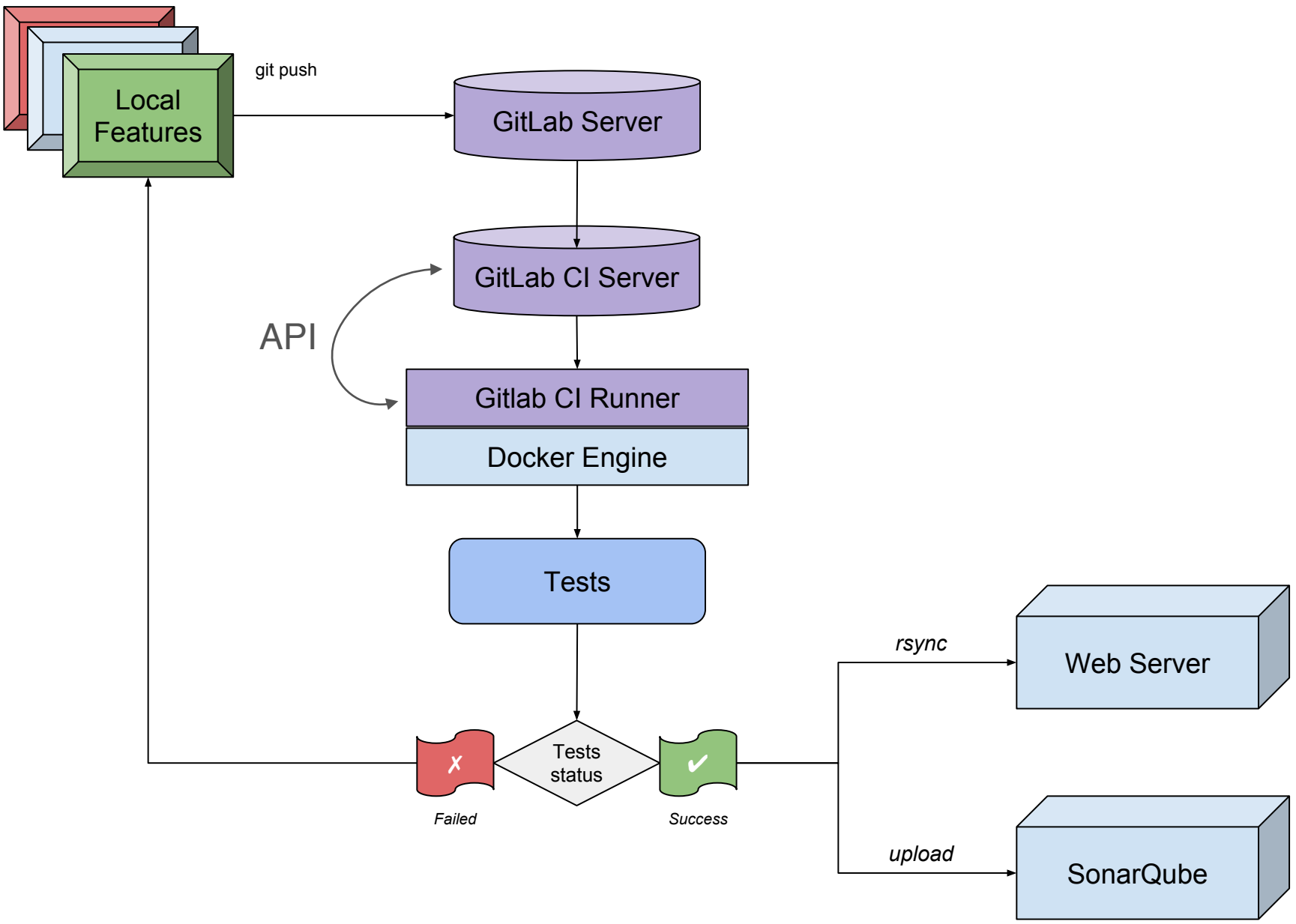


Schéma d'exemple de fonctionnement

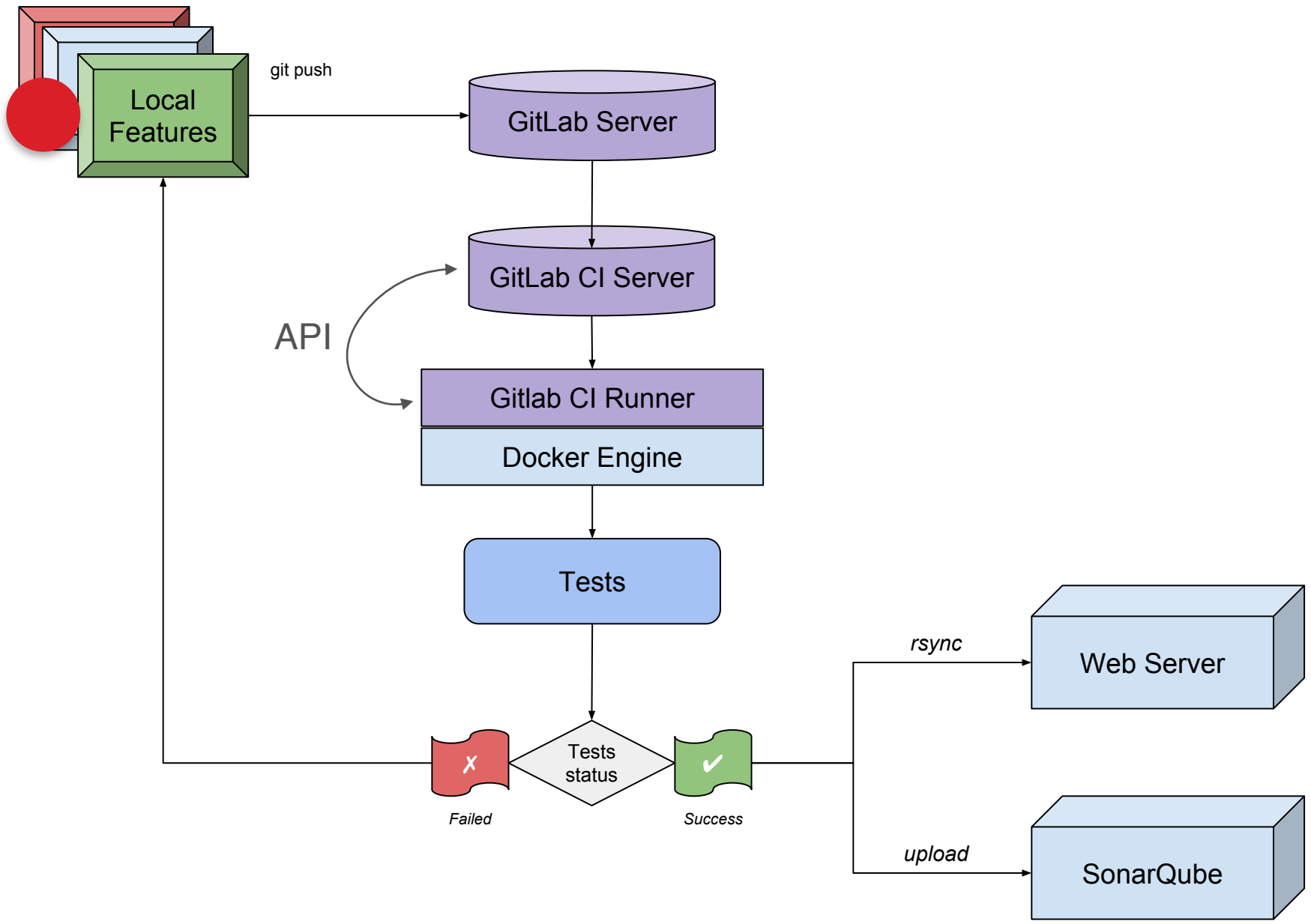


Schéma d'exemple de fonctionnement

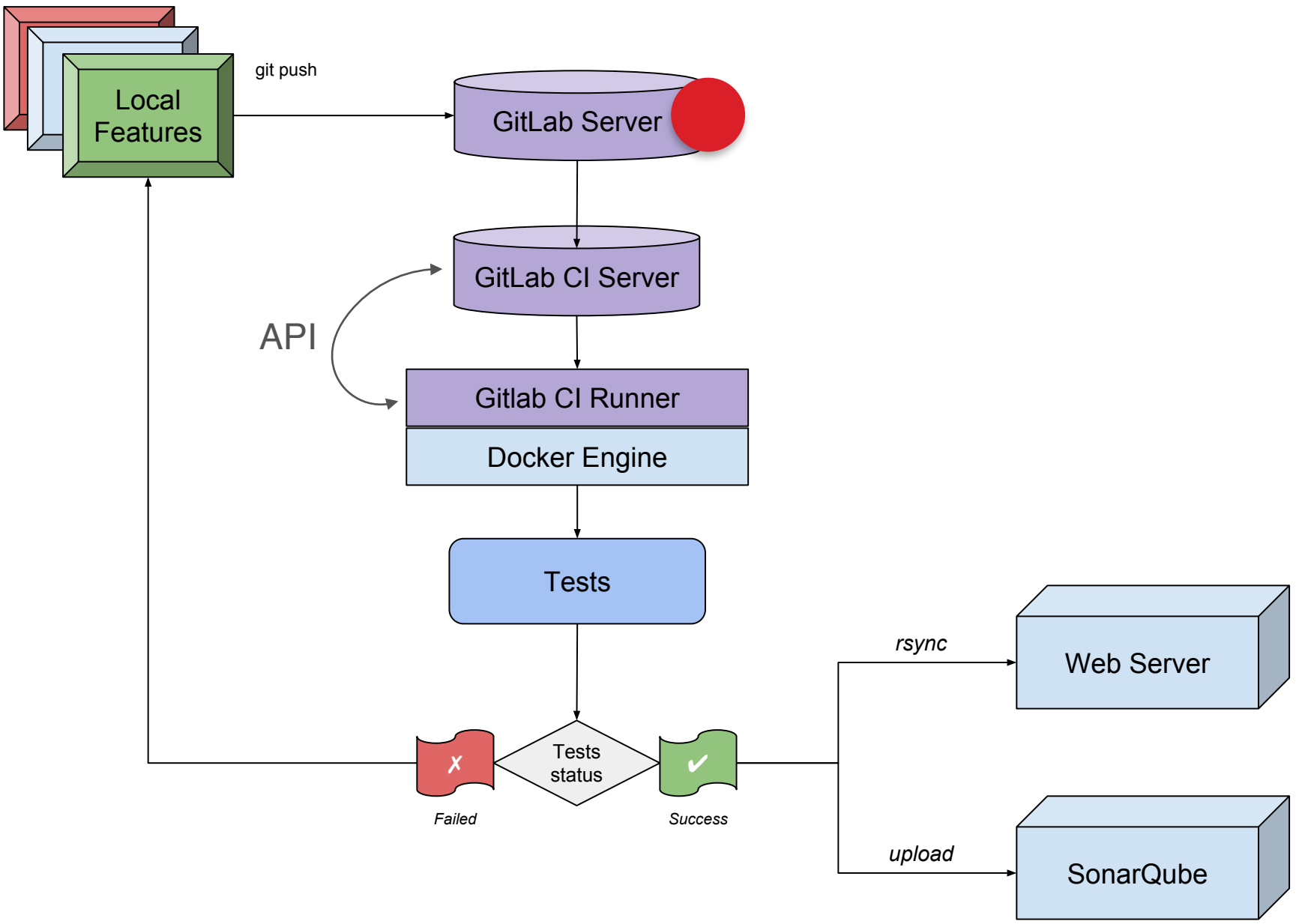


Schéma d'exemple de fonctionnement

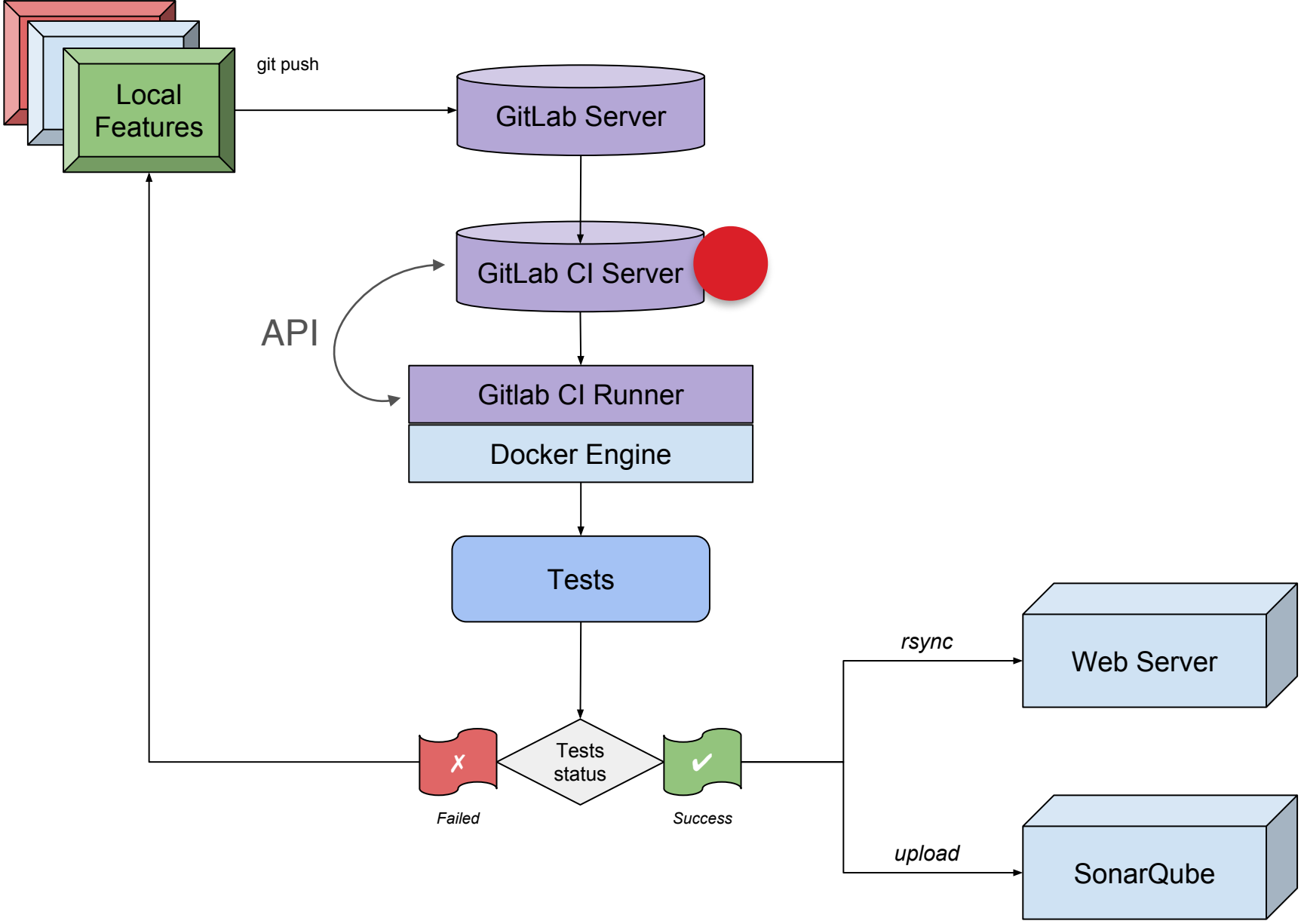


Schéma d'exemple de fonctionnement

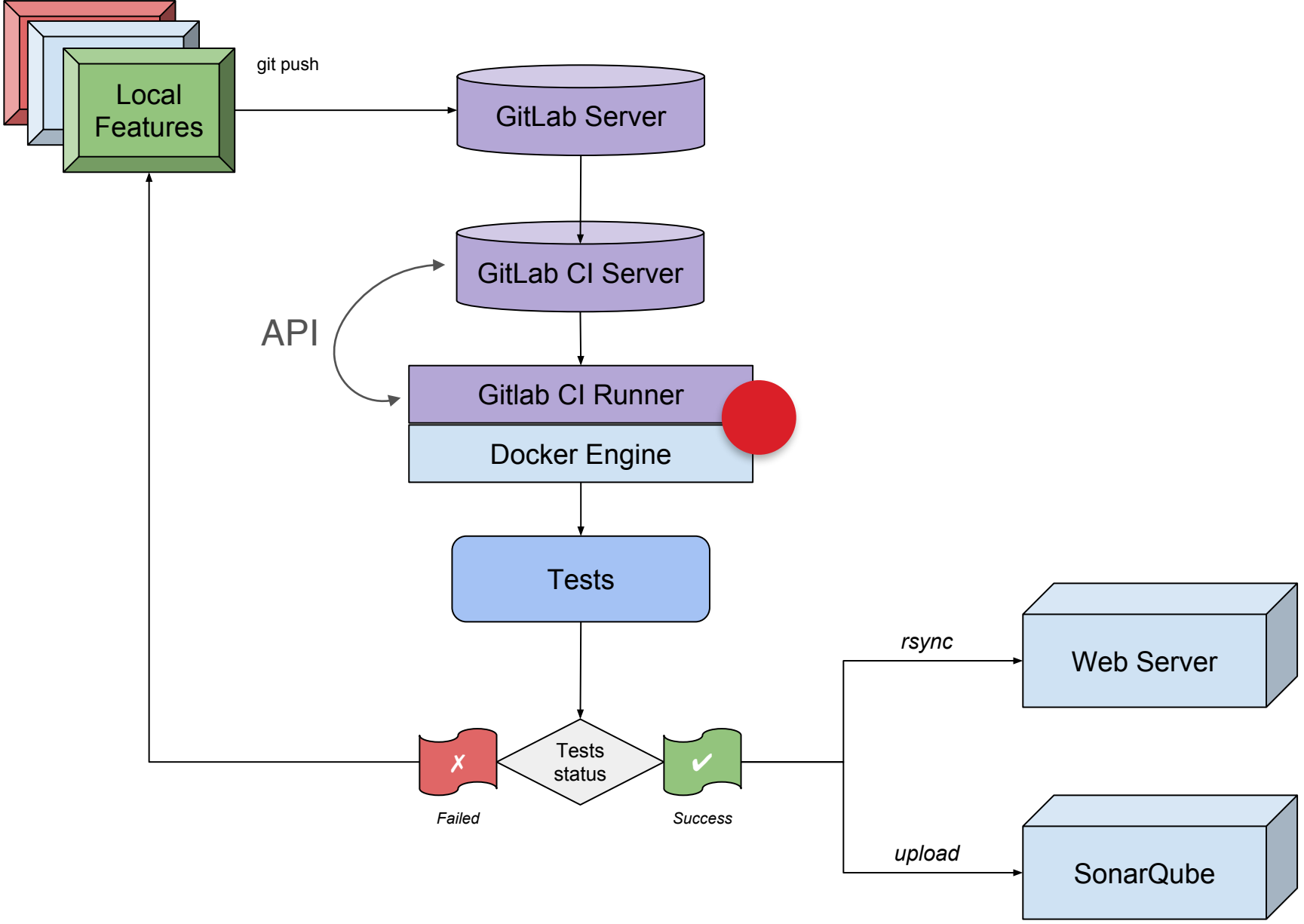


Schéma d'exemple de fonctionnement

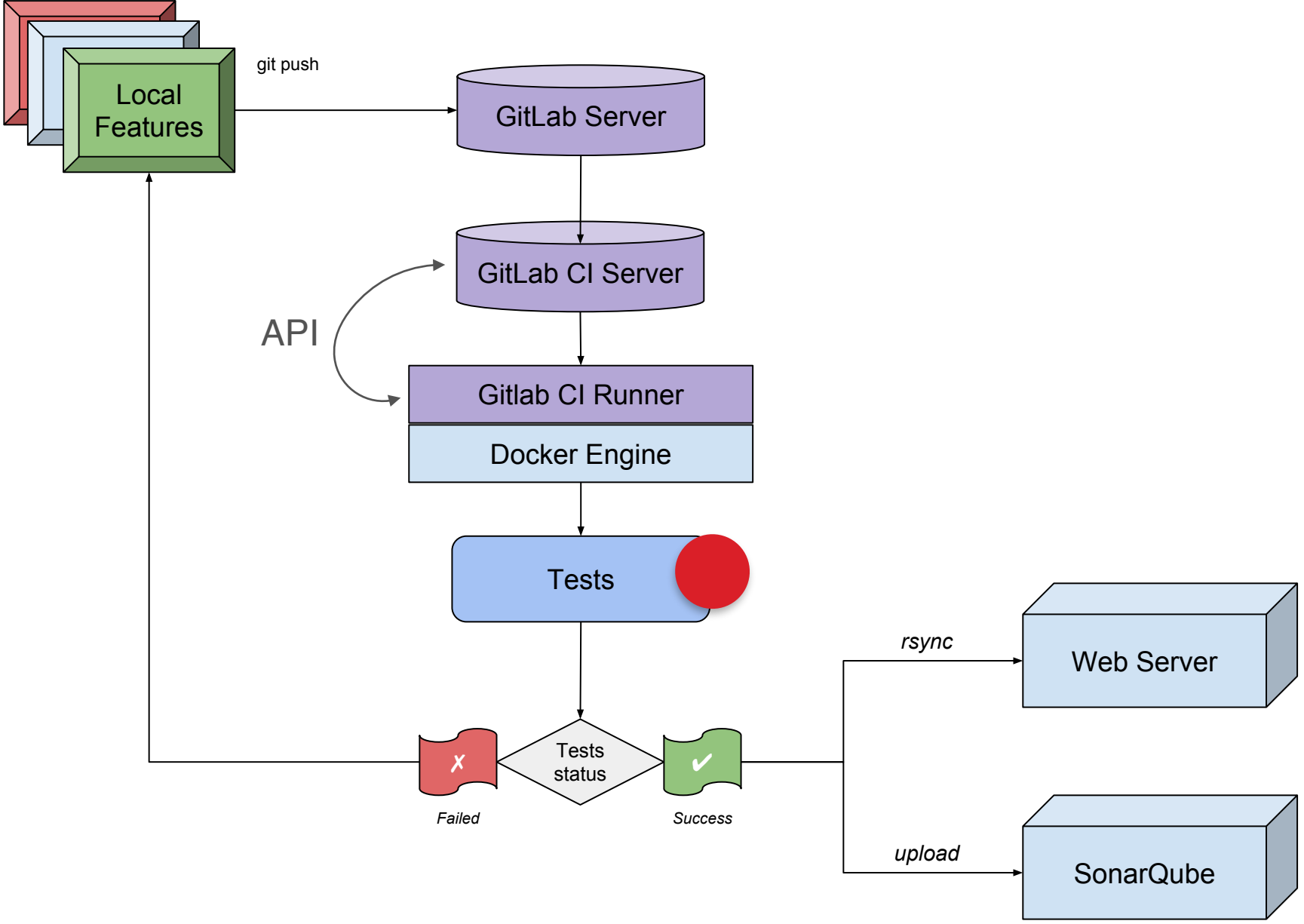


Schéma d'exemple de fonctionnement

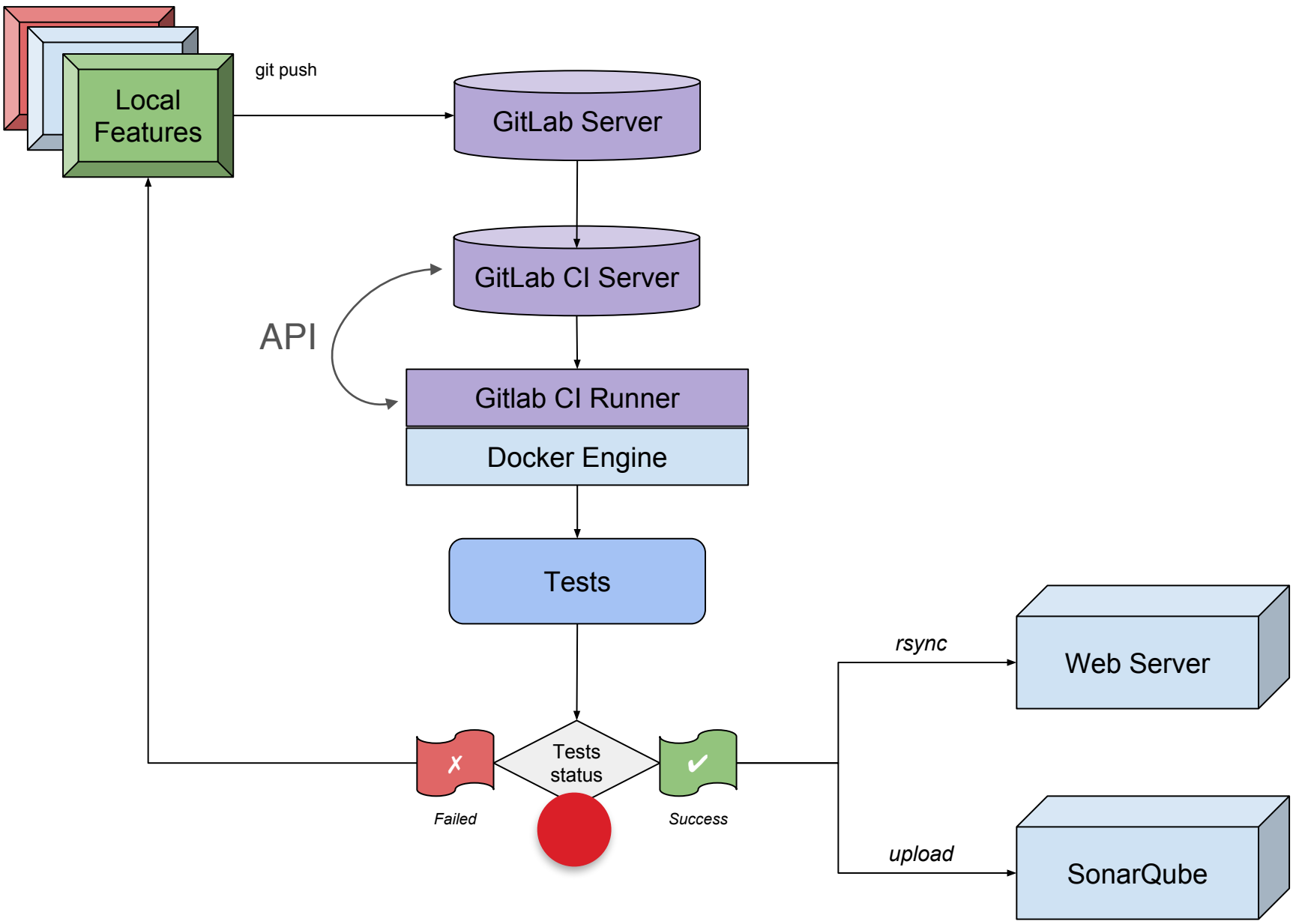


Schéma d'exemple de fonctionnement

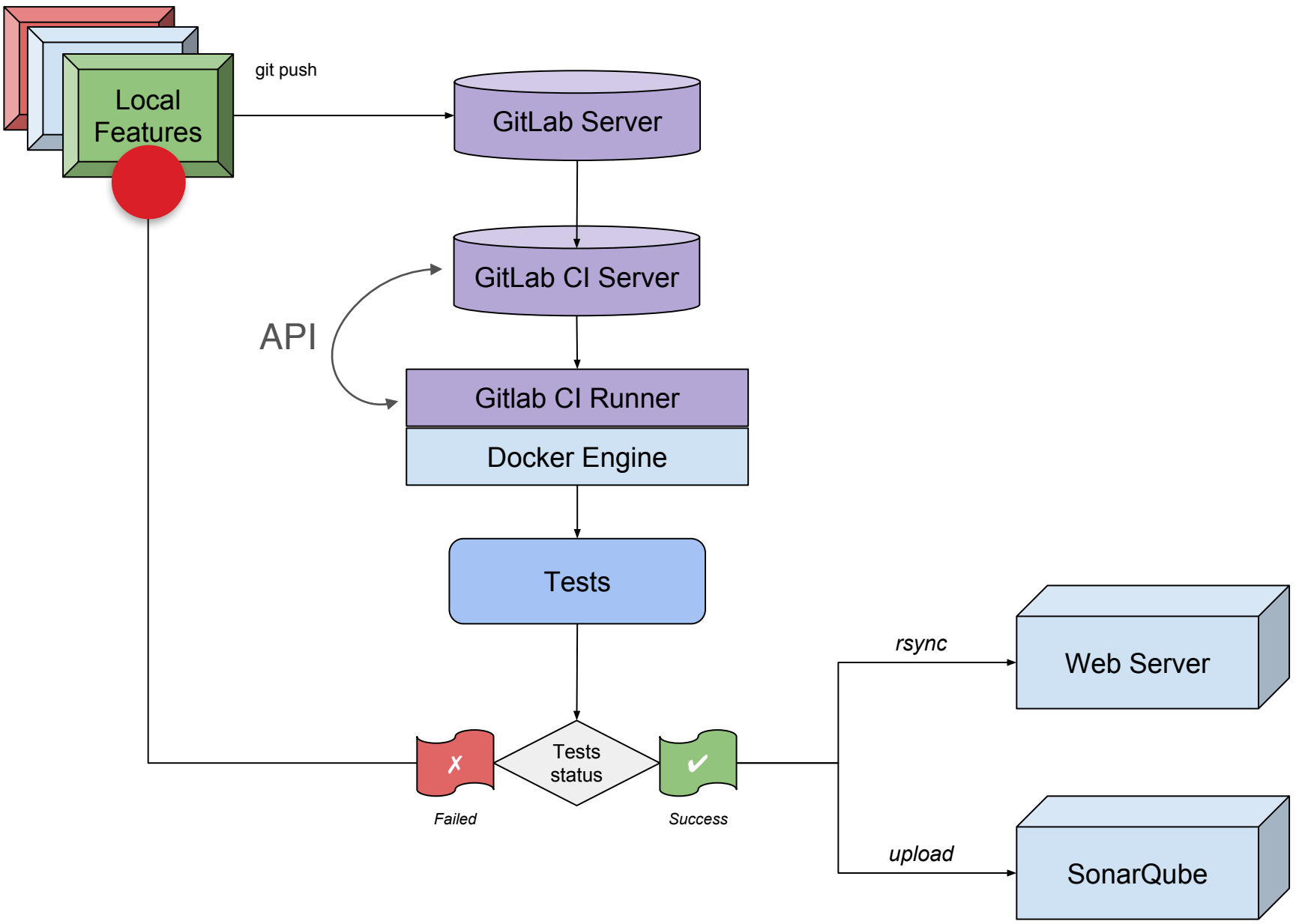


Schéma d'exemple de fonctionnement

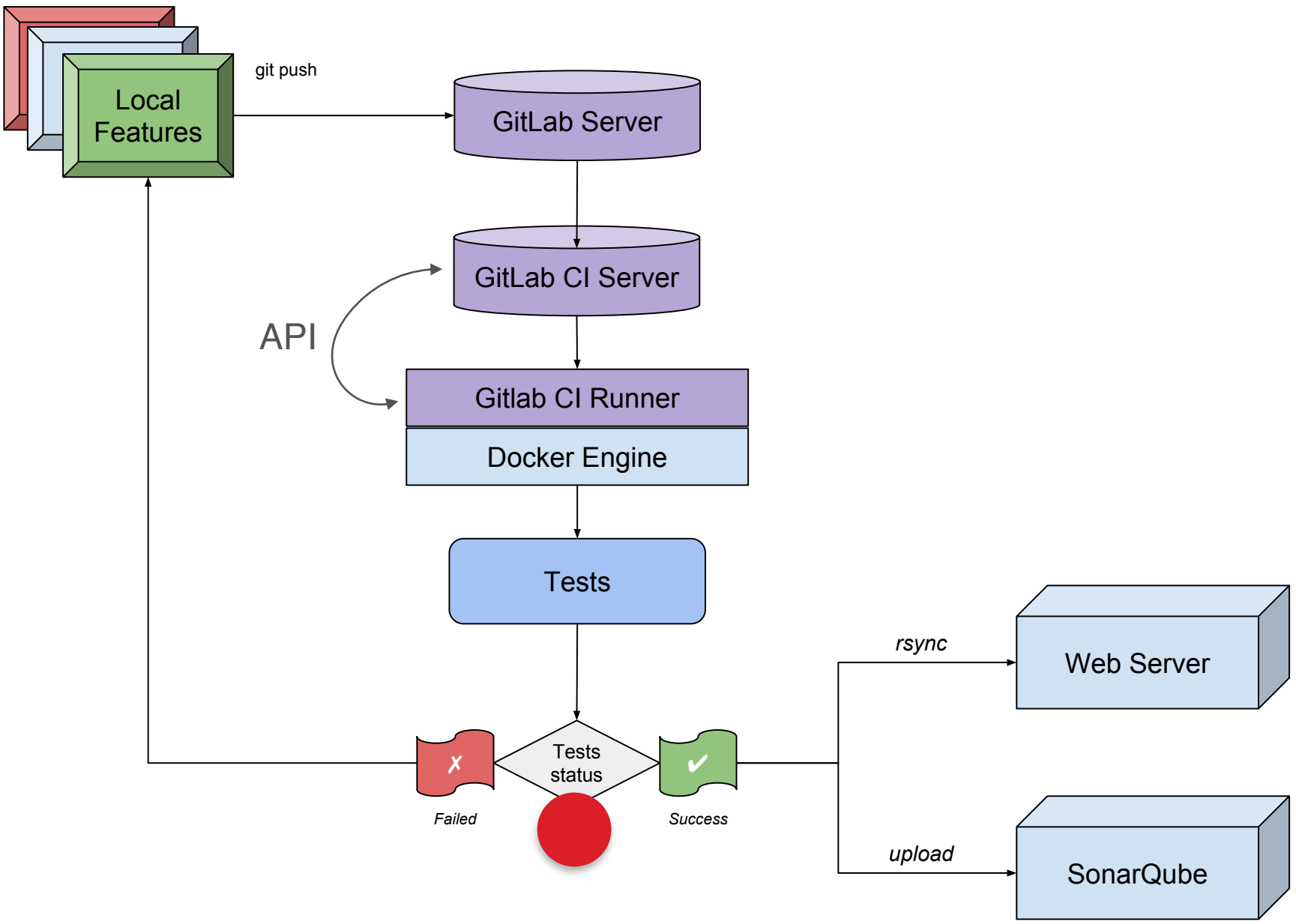


Schéma d'exemple de fonctionnement

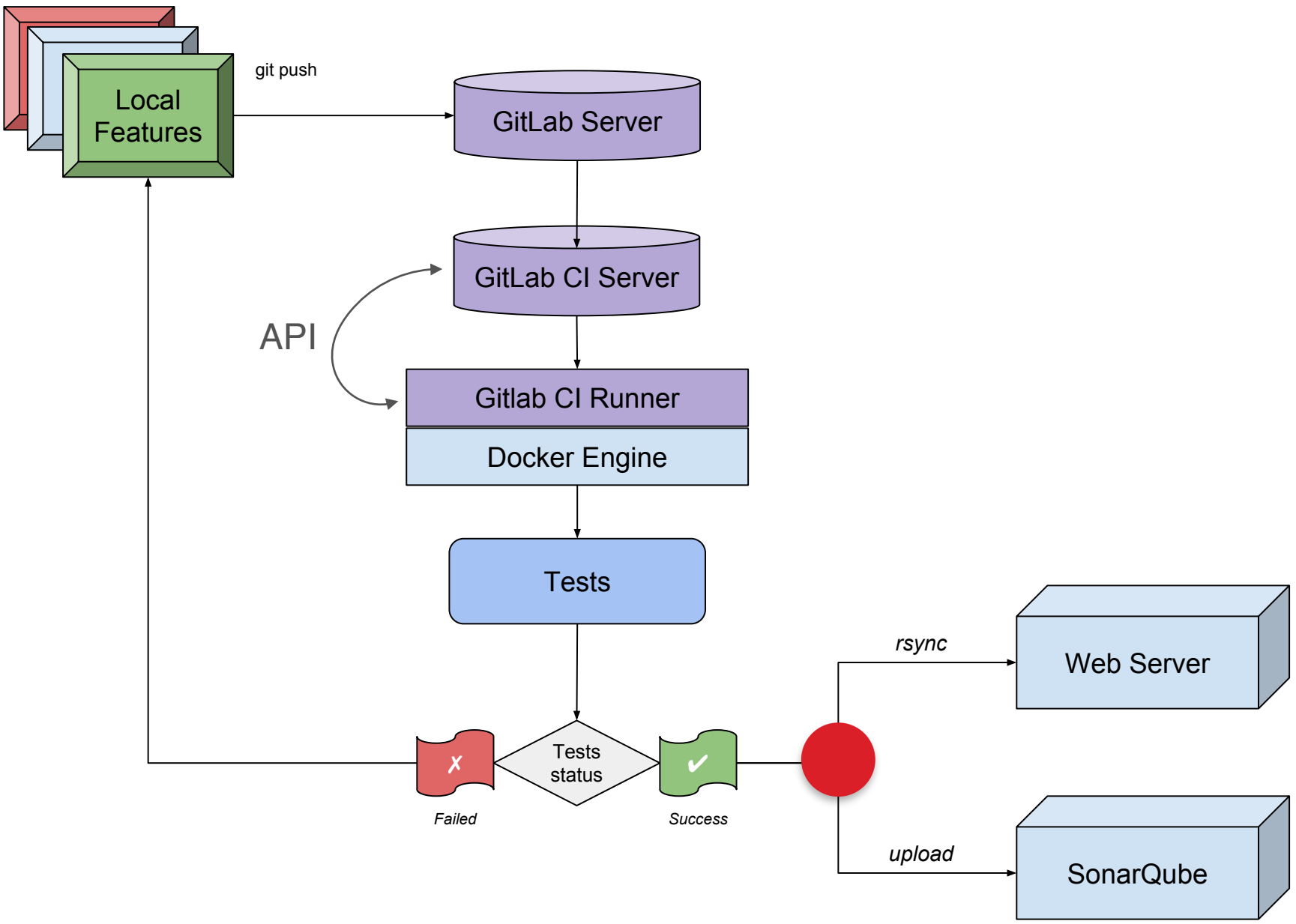
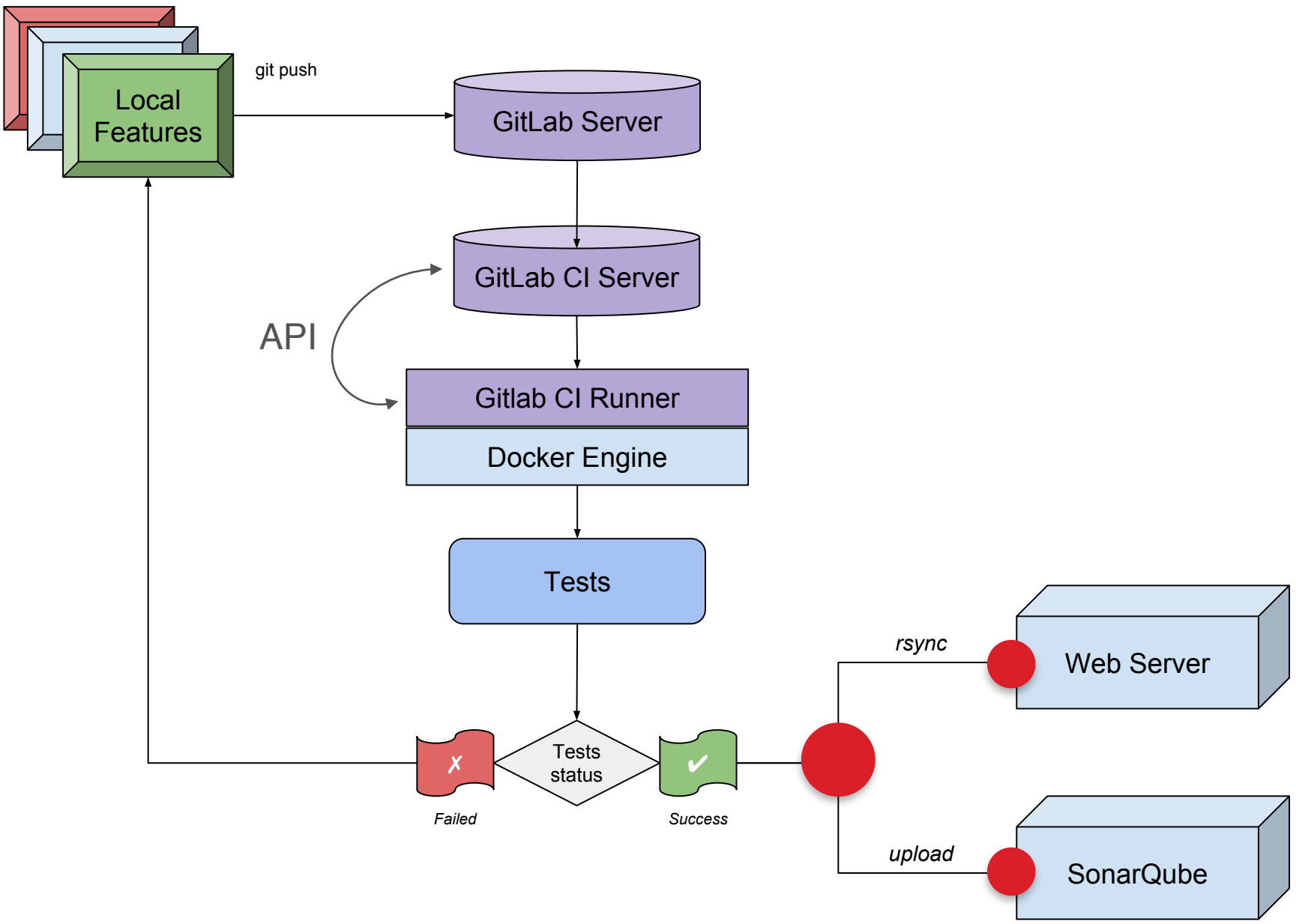


Schéma d'exemple de fonctionnement




```
image: ccin2p3/php-xdebug-sonar:latest

cache:
  paths:
    - vendor/

before_script:

  # run ssh-agent
  - eval $(ssh-agent -s)

  # add ssh key stored in SSH_PRIVATE_KEY variable to the agent store
  - ssh-add <(echo "$SSH_PRIVATE_KEY")

  [...]

  - php composer.phar install

stages:
  - test
  - deploy
```



```
image: ccin2p3/php-xdebug-sonar:latest
```

Nom de l'image docker



```
cache:
```

```
  paths:
  - vendor/
```

```
before_script:
```

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- eval $(ssh-agent -s)

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[...]
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```
- php composer.phar install
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```
stages:
```

```
- test
- deploy
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```
image: ccin2p3/php-xdebug-sonar:latest
```

```
cache: ←  
  paths:  
    - vendor/
```

Mise en cache de fichiers

```
before_script:
```

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- eval $(ssh-agent -s)  
  
# add ssh key stored in SSH_PRIVATE_KEY variable to the agent store  
- ssh-add <(echo "$SSH_PRIVATE_KEY")  
  
[...]  
  
- php composer.phar install
```

```
stages:
```

```
- test  
- deploy
```

```
image: ccin2p3/php-xdebug-sonar:latest
```

```
cache:
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  paths:
```

```
    - vendor/
```

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before_script:
```

```
  # run ssh-agent
```

```
  - eval $(ssh-agent -s)
```

```
  # add ssh key stored in SSH_PRIVATE_KEY variable to the agent store
```

```
  - ssh-add <(echo "$SSH_PRIVATE_KEY")
```

```
  [...]
```

```
  - php composer.phar install
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```
stages:
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```
  - test
```

```
  - deploy
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Script shell exécuté par le runner

```
image: ccin2p3/php-xdebug-sonar:latest

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stages:
  - test
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Ordonnancement de l'exécution et
regroupement des jobs

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  # run ssh-agent
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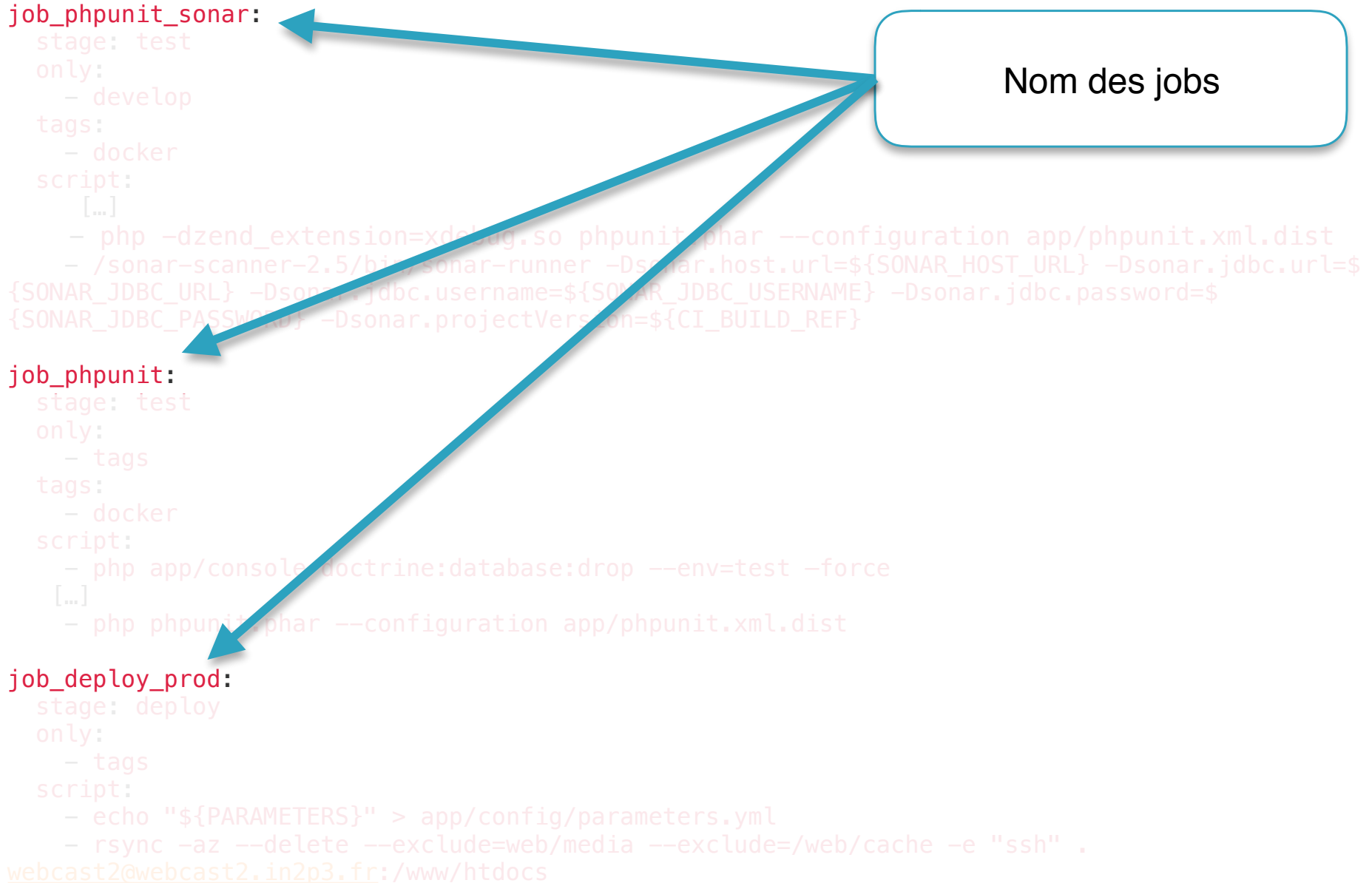
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stages:
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```
job_phpunit_sonar:  
  stage: test  
  only:  
    - develop  
  tags:  
    - docker  
  script:  
    [...]  
    - php -dzend_extension=xdebug.so phpunit.phar --configuration app/phpunit.xml.dist  
    - /sonar-scanner-2.5/bin/sonar-runner -Dsonar.host.url=${SONAR_HOST_URL} -Dsonar.jdbc.url=${SONAR_JDBC_URL} -Dsonar.jdbc.username=${SONAR_JDBC_USERNAME} -Dsonar.jdbc.password=${SONAR_JDBC_PASSWORD} -Dsonar.projectVersion=${CI_BUILD_REF}
```

```
job_phpunit:  
  stage: test  
  only:  
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    - docker  
  script:  
    - php app/console doctrine:database:drop --env=test --force  
    [...]  
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```
job_deploy_prod:  
  stage: deploy  
  only:  
    - tags  
  script:  
    - echo "${PARAMETERS}" > app/config/parameters.yml  
    - rsync -az --delete --exclude=web/media --exclude=/web/cache -e "ssh" .  
webcast2@webcast2.in2p3.fr: /www/htdocs
```



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job_phpunit_sonar:  
  stage: test  
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Étape dans laquelle va être exécuté le job

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stages:  
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    - php phpunit.phar --configuration app/phpunit.xml.dist
```



Restriction d'exécution à
une ou plusieurs branches

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    [...]  
    - php phpunit.phar --configuration app/phpunit.xml.dist
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Choix du runner utilisé

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```

Script shell exécuté par le runner

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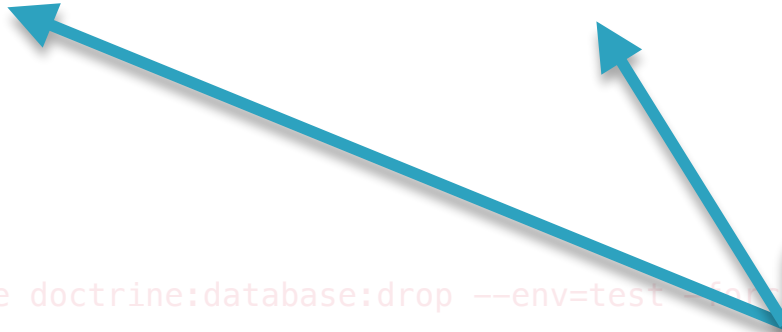


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webcast2@webcast2.in2p3.fr:/www/htdocs
```

Variables d'environnement



```
job_phpunit_sc
  stage: test
  only:
    - develop
  tags:
    - docker
  script:
    [...]
    - php -dz
    - /sonar-s
{SONAR_JDBC_UR
{SONAR_JDBC_PA

job_phpunit:
  stage: test
  only:
    - tags
  tags:
    - docker
  script:
    - php app
    [...]
    - php php

job_deploy_pro
  stage: depl
  only:
    - tags
  script:
    - echo "$-
    - rsync -a
webcast2@webca
```

The screenshot shows the GitLab interface for the 'Secret Variables' section of a project. The breadcrumb is 'CC-IN2P3 Dev / webcast - Settings'. The left sidebar contains navigation options: 'Go to project', 'Project Settings', 'Deploy Keys', 'Web Hooks', 'Services', 'Protected Branches', 'Runners', 'Variables', and 'Triggers'. The main content area is titled 'Secret Variables' and includes a warning: 'These variables will be set to environment by the runner. So you can use them for passwords, secret keys or whatever you want. The value of the variable can be visible in build log if explicitly asked to do so.' Below this, three variables are listed:

Key	Value	Action
PARAMETERS	# This file is auto-generated during the composer install parameters:	Remove this variable
SONAR_HOST_URL	http://ccsonar.in2p3.fr:9000	Remove this variable
SONAR_JDBC_URL	jdbc:postgresql://ccpgsql.in2p3.fr/ccsonar	Remove this variable

```
it.xml.dist
ar.jdbc.url=$
d=$
```

onnement

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Merci !

Des questions ?