

Side Car On Openshift

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1 The Project

1.1 Status On Apache

status.conf

```
<Location /server-status>  
SetHandler server-status  
Order deny,allow  
Allow from all  
</Location> ExtendedStatus On
```

and *Dockerfile*

```
RUN a2enmod status  
COPY status.conf /etc/apache2/mods-enabled/
```

1.2 Secret Access

We firstly define our *secret file*

```
apiVersion: v1
kind: Secret
metadata:
  name: github-secret
  namespace: sidecar
type: kubernetes.io/basic-auth
data:
  username: c3Bpa2U=
  password: dmFsZW50aW5l
```

username and *password* are defined with the command

```
$ echo -n 'spike' | base64
c3Bpa2U=
$ echo -n 'valentine' | base64
dmFsZW50aW5l
```

and we run

```
$ oc create -f gitlab-secret.yaml
```

1.3 New Project

Firstly, we create a new project

```
$ oc new-project sidecar \
--display-name='Side Car Project' \
--description='Side Car Project'
```

1.4 New Build

To obtain our image, we firstly

```
$ oc new-build http://192.168.0.8:8880/spike/faye.git \
--name faye
```

But to resolve the issue based on the credential, we'll attribute the *login/password* defined before and restart the build process.

```
$ oc set build-secret --source bc/faye github-secret
$ oc start-build faye
```

or directly

```
$ oc new-build http://192.168.0.8:8880/spike/faye.git \
--source-secret github-secret
--name faye
```

1.5 New Application

It's time to create our application

```
$ oc new-app faye \
--name fayeapp
$ oc status
$ oc expose service faye
$ oc get pod
$ oc get all name --selector app=cdnselect
```

2 The Side Car

2.1 Export

We firstly export our *project*.

```
$ oc get --export is,bc,dc,svc -o yaml > export.yaml
```

2.2 ImageStream

We delete *resourceVersion*, *selfLink* and *uid*. In status, we keep *dockerImageRepository* (set to "")

2.3 BuildConfig

We delete *resourceVersion*, *selfLink* and *uid*. We delete in *spec.triggers.imageChange* *lastTriggeredImageID*

2.4 DeploymentConfig

We replace `spec.template.spec.containers.image` by *faye* in the first container

We add in `spec.template.spec.container`

```
- name: apache-exporter
image: previousnext/apache-exporter
command: [ "apache_exporter", \
"-scrape_uri", \
"http://127.0.0.1:8080/server-status/?auto" ]
ports:
- containerPort: 9117
```

2.5 Service

We delete *resourceVersion*, *selfLink* and *uid*.

We add in `spec.ports`

```
- name: 9117-tcp
port: 9117
protocol: TCP
targetPort: 9117
```