

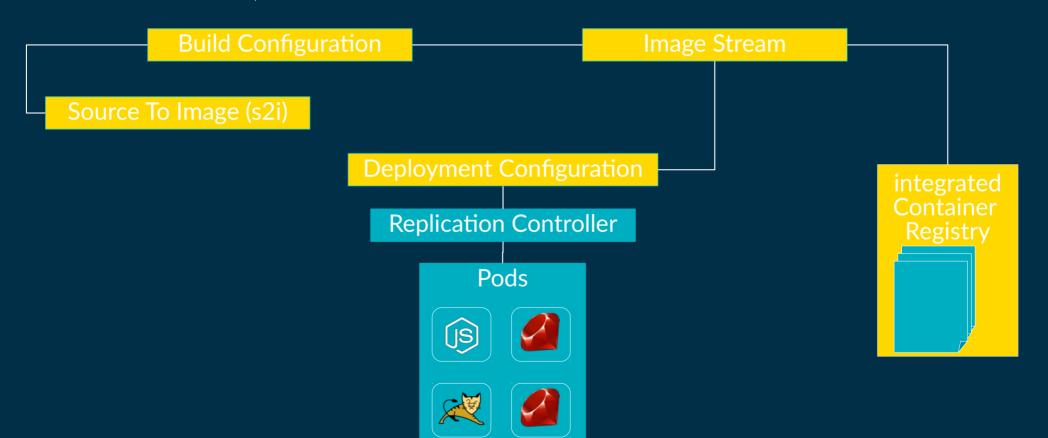
From source to a runninig application



Source code → Container running in OpenShift



build feature



Build Config

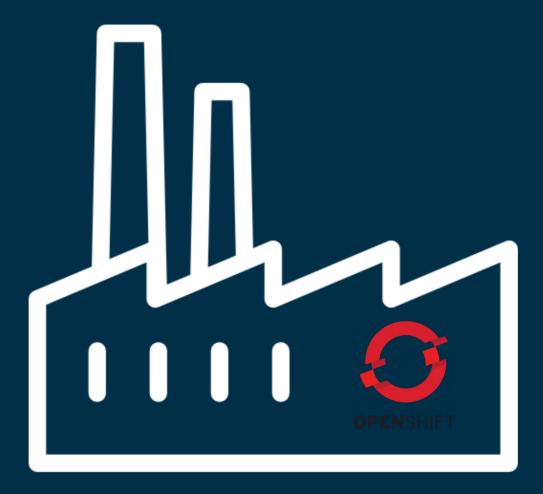
```
kind: BuildConfig
apiVersion: build.openshift.io/v1
metadata:
name: example-spring-boot-helloworld
spec:
triggers:
  - type: ImageChange
 strategy:
  type: Source
  sourceStrategy:
   from:
    kind: ImageStreamTag
    namespace: openshift
    name: 'java:11'
 source:
 type: Git
  git:
   uri: 'https://github.com/appuio/example-spring-boot-helloworld'
 output:
  to:
   kind: ImageStreamTag
   name: 'example-spring-boot-helloworld:latest'
```

Build infrastructure

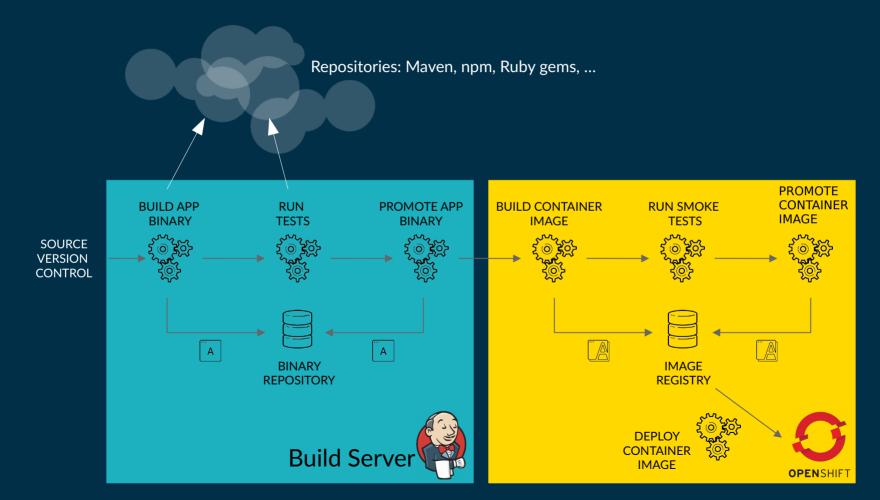




Integration of your new OpenShift platform



1. app binary build – no internet access



app binary build example

oc tool command to start a binary build

name of the BuildConfig in OpenShift

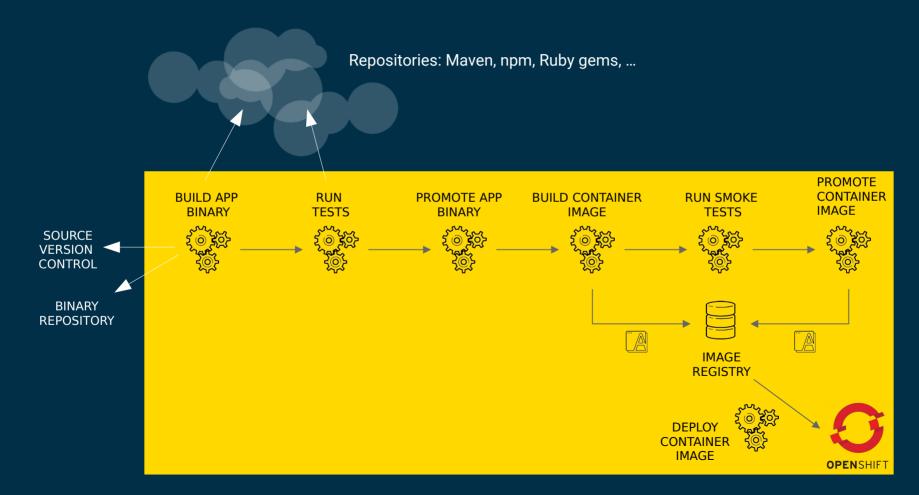
oc start-build hello-world \
--from-dir=local/build-context \
--follow

folder witch content will be copied to OpenShift

use local resources for build input

wait until the build is done and show logs

2. source build – needs build dependencies



Proxy settings

Where are proxy settings possibly needed?

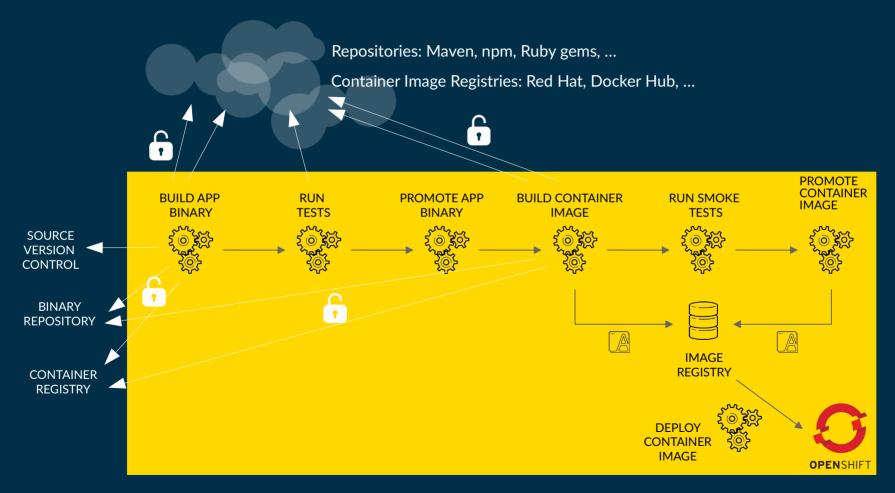


BuildConfig to access Git repository



s2i build container to access Maven repositories

3. source build – private registries/repositories



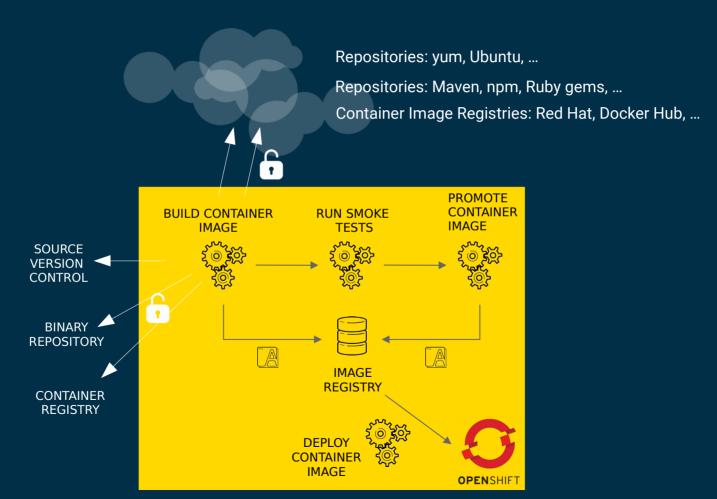
Repository / Registry authentication

Secrets are used to store authentication credentials.

Where are the places to enable access to protected services?

- 1. Builds: to pull container images as base
- 2. Builds: to push container images as result
- 3. Builds: to push and pull binary artifacts
- 4. Deployments: to pull container images

4. container build – needs software repository



additional proxy settings

Where are proxy settings possibly needed?

build container

- to access git repositories
- to access Maven repositories
- to access software repositories

Access comparison matrix

required access

Build type

	Build dependencies	Container image registries	Software repositories
app binary build			
source build	Х		
source build (private)	х	X	
container build	Х	Х	X
custom build	Х	Х	X

additional labs

Example labs for build types and access to private repositories.

Additional → OpenShift build types