Steg 5.1: Bygg din första Applikation med Pipeline/Tekton GUI (enkel)

Bygg din första Pipeline med GUI

Denna instruktion inriktar sig på att skapa förståelse hur man med OCPs inbyggda guide kan hjälpa till att skapa en bygg-pipeline utifrån Node.js source-kod från Git.

Förberedelse

Du behöver följande information och förberedelser

Access till OCP4 - https://console-openshift-console.apps.tocp4.arbetsformedlingen.se/

Secret för Git-Repo med egen personlig som fungerar (se DevOps Howto - Spara personlig SSH-nyckel i Bitbucket - CI/CD - Confluence)

Bitbucket Git-repo Secret

Skapa din secret med hjälp av din personliga privata nyckel i din user-XXXX projekt: **ssh-bitbucket-src**

https://console-openshift-console.apps.tocp4.arbetsformedlingen.se/k8s/ns/user-XXXXX/secrets

Alternativt GUI med oc-klient

```
$ > oc create secret generic ssh-bitbucket-src --from-file=ssh-privatekey=my_private_ssh_key_to_bitbucket --
type=kubernetes.io/ssh-auth
 secret/ssh-bitbucket-src created

$ > oc get secret ssh-bitbucket-src

NAME                TYPE                  DATA AGE
ssh-bitbucket-src kubernetes.io/ssh-auth 1    19s
```

Addera Git-Repository - (+Add)

Importera Git-Repository

Fyll i följande information för att skapa Pipeline och koppla rätt image för Nodejs och grundinformation för applikationen.

Git-Repo Bitbucket (branch **master**)

ssh://git@bitbucket.arbetsformedlingen.se:7999/~joske/nodejs-tekton-guide.git

Context dir: **nodejs**

Secret: **ssh-bitbucket-src**

Import from Git

Git

Git Repo URL *

ssh://git@bitbucket.arbetsformedlingen.se:7999/~joske/nodejs-tekton-guide.git ⚠

URL is valid but cannot be reached. If this is a private repository, enter a source Secret in advanced Git options

Git type *

Bitbucket ▾

ℹ **Defaulting Git type to other**
We failed to detect the Git type.

▾ Hide advanced Git options

Git reference

master

Optional branch, tag, or commit.

Context dir

nodejs

Optional subdirectory for the Application source code, used as a context directory for build.

Source Secret

ssh-bitbucket-src ▾
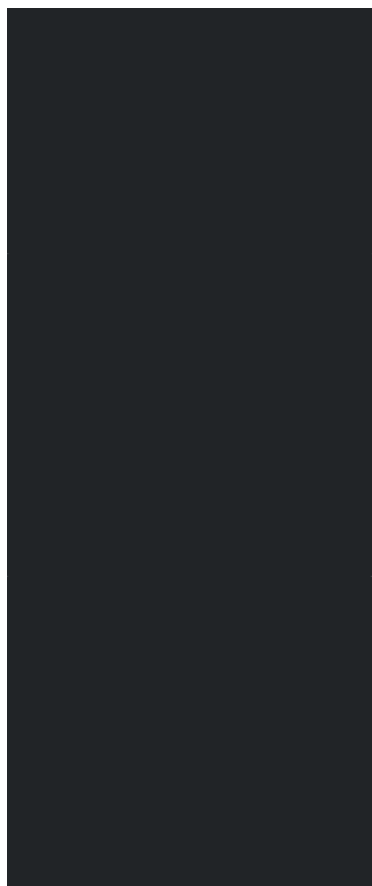
Secret with credentials for pulling your source code.

Left navigation:
+Add
Topology
Observe
Search
Builds
Pipelines
Environments
Helm
Project
ConfigMaps
Secrets

Build Image

Import strategy: **Builder Image**

Builder Image: **Node.js**

Import Strategy

Devfile	Dockerfile	**Builder Image**

Builder Image

Perl	PHP	Nginx	Httpd	.NET

| Jboss Eap Xp3 Openjdk11 Openshift | **Node.js** | | | |

Builder Image version *

`IST 14-ubi8` ▾

node **Node.js 14 (UBI 8)**

BUILDER NODEJS

Build and run Node.js 14 applications on UBI 8. For more information about using this builder image, including OpenShift considerations, see https://github.com/sclorg/s2i-nodejs-container/blob/master/14/README.md.

Sample repository: https://github.com/sclorg/nodejs-ex.git ↗

Application Resources Pipeline

Application: **No Application group**

Application name: **nodejs-tekton-gui**

(**Check**) Add pipeline

Application

No Application group ▼

Select an Application for your grouping or no Application group to not use an Application grouping.

Name *

nodejs-tekton-gui

A unique name given to the component that will be used to name associated resources.

Resources

Select the resource type to generate

⦿ Deployment

apps/Deployment

A Deployment enables declarative updates for Pods and ReplicaSets.

○ DeploymentConfig

apps.openshift.io/DeploymentConfig

A DeploymentConfig defines the template for a Pod and manages deploying new Images or configuration changes.
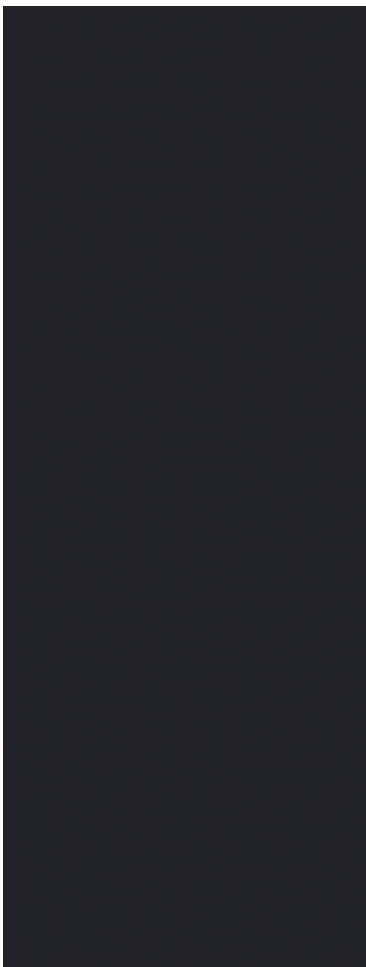
○ Serverless Deployment

serving.knative.dev/Service

A type of deployment that enables Serverless scaling to 0 when idle.

Pipelines

☑ Add pipeline

❯ Show pipeline visualization

Route - Advanced Routing option

(**check**) Create a route to the app

Route path: **/nodejs**
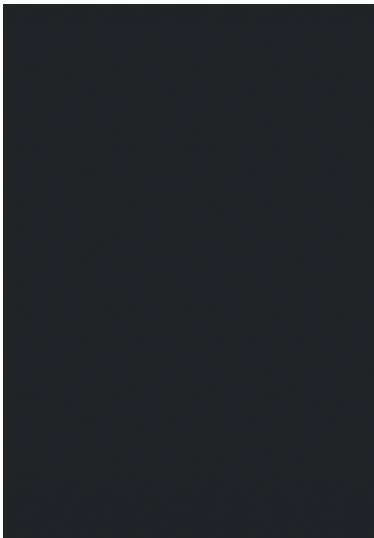
Advanced options

☑ Create a route to the Application
Exposes your Application at a public URL

ˇ Hide advanced Routing options

Hostname

Public hostname for the route. If not specified, a hostname is generated.

Path

/nodejs

Path that the router watches to route traffic to the service.

Verifikation

Pipelines

Name	Last run	Task status	Last run status	Last run time	
PL nodejs-tekton-gui	PLR nodejs-tekton-gui-ak8rz9		↻ Running	🌐 Just now	⋮

Name	Last run	Task status	Last run status	Last run time	
PL nodejs-tekton-gui	PLR nodejs-tekton-gui-ak8rz9		↻ Running	🌐 Just now	⋮

PipelineRuns > PipelineRun details

PLR nodejs-tekton-gui-ak8rz9 ↻ Running

Actions ▾

Details | YAML | TaskRuns | **Logs** | Events

⬇ Download | ⬇ Download all task logs | ⤢ Expand

✅ fetch-repository

↻ build

```
build · · ·

STEP-GENERATE

  Application dockerfile generated in /gen-source/Dockerfile.gen

STEP-BUILD

  STEP 1: FROM image-registry.openshift-image-registry.svc:5000/openshift/nodejs:14-ubi8
  Trying to pull image-registry.openshift-image-registry.svc:5000/openshift/nodejs:14-ub
  Getting image source signatures
  Copying blob sha256:0d875a68bf996a2e45cd381e8eb3c8b1efa6191d8e3f6ec98be685c7e9823815
  Copying blob sha256:124237e7c2cd81d96bc8c86582d8a0214b09ac48600c516a619e0508c9ab9f6b
  Copying blob sha256:950c796b5dbc22ecb4f4bd661013c9286715d238a0dbdd9b7ed1406c395086a1
  Copying blob sha256:8dfe9326f733b815c486432e93e0a97f03e90e7cc35def9511cd1efa7f917f56
```

Pipeline Trigger med GUI

Pipelines

Create Pipeline

| Filter ▾ | Name ▾ | Search by name... | / |

Name ↕	Last run ↕	Task status ↕	Last run status ↕	Last run time ↕	
PL nodejs-tekton-gui	**PLR** nodejs-tekton-gui-ak8rz9		⟳ Running	🌐 för 1 minut sedan	⋮

Start

Start last run

Add Trigger

Edit labels

Edit annotations

Edit Pipeline

Delete Pipeline

Add Trigger

Webhook

Git provider type

`CTB` bitbucket-push ▼

Select your Git provider type to be associated with the Trigger.

› Show variables

Parameters

APP_NAME

nodejs-tekton-gui

GIT_REPO

ssh://git@bitbucket.arbetsformedlingen.se:7999/~joske/nodejs-tekton-guide.git

GIT_REVISION

master

IMAGE_NAME

image-registry.openshift-image-registry.svc:5000/user-joske/nodejs-tekton-gui

PATH_CONTEXT

nodejs

VERSION

14-ubi8

Workspaces

workspace *

PersistentVolumeClaim ▼

`PVC` pvc-bc13e45db2 ▼

Cancel   Add

PL nodejs-tekton-gui

Details   Metrics   YAML   PipelineRuns   Parameters   Resources

Pipeline details

fetch-repository — build — deploy

Name
nodejs-tekton-gui

Namespace
NS user-joske

Labels   Edit ✏

app.kubernetes.io/instance=nodejs-tekton-gui

app.kubernetes.io/name=nodejs-tekton-gui

pipeline.openshift.io/runtime=nodejs

pipeline.openshift.io/runtime-version=14-ubi8

pipeline.openshift.io/type=kubernetes

Annotations
0 annotations ✏

Created at
🌐 för 7 minuter sedan

Owner
No owner

TriggerTemplates
TT trigger-template-nodejs-tekton-gui-av5a45
http://el-event-listener-0gct0i-user-joske.apps.tocp4.arbetsformedlingen.se ⧉

Tasks
CT git-clone (fetch-repository)
CT s2i-nodejs (build)
CT openshift-client (deploy)

Workspaces
workspace

Skapa Webhook Bitbucket

ACTIONS

- Clone
- Create branch
- Create pull request
- Compare

NAVIGATION

- Source
- Commits
- Branches
- Graphs
- Pull requests
- Forks
- Builds

SHORTCUTS

- Add shortcut

Repository settings

Repository details

SECURITY

Repository permissions

Branch permissions

Access keys

Push log

Audit log

WORKFLOW

Branching model

Hooks

Webhooks

PULL REQUESTS

Merge checks

Merge strategies

Code Insights

Default reviewers

Webhooks

Webhooks enable you to make request to a server (or another external service) when certain events occur in Bitbucket. For example, you can configure webhooks to update an issue tracker, trigger CI builds, or even deploy to your production server. Learn more.

Extend Bitbucket Server with webhooks

Automate your workflow and keep your applications informed.

Create webhook

Create webhook

Webhooks enable you to make request to a server (or another external service) when certain events occur in Bitbucket. For example, you can configure webhooks to update an issue tracker, trigger CI builds, or even deploy to your production server. Learn more.

Name* `nodejs-tekton-gui`

URL `http://el-event-listener-nodejs-tekton`

Secret

The string is used to verify data integrity between Bitbucket and your endpoint. Learn more

Configuration   Test connection   202   View details

Events*   **Repository**   View payloads   **Pull request**   View payloads

☑ Push
Pushes, branch created or deleted, tag created or deleted

☐ Opened
A pull request is opened or reopened.

☐ Modified
This repository is renamed or moved.

☐ Source branch updated
A pull request's source branch has been updated.

☐ Forked
When this repository is forked.

☐ Modified
A pull request's description, title, or target branch is changed.

☐ Comment added
Commit comments are added in this repository.

☐ Reviewers updated
A pull request's reviewers have been added or removed.

☐ Comment edited
Commit comments are edited in this repository.

☐ Approved
A pull request is marked as approved by a reviewer.

☐ Comment deleted
Commit comments are deleted in this repository.

☐ Unapproved
A pull request is unapproved by a reviewer.

☐ Mirror synchronized
A mirror finished synchronizing this repository.

☐ Needs work
A pull request is marked as needs work by a reviewer.

☐ Merged
A pull request is merged.

☐ Declined
A pull request is declined.

☐ Deleted
A pull request is deleted.