

ToDo app

This is a very simple todo application and we it do the job.

Build the todo-app

```
./mvnw clean package
```

Deployment to OpenShift

Push app to registry on OpenShift

Port forward - make OpenShift registry accessible on port 5000

```
oc port-forward pod/$(oc get pods -n openshift-image-registry | awk '/^image-registry/{print $1}') -n openshift-image-registry 5000
```

Login to registry on OpenShift

```
podman login --tls-verify=false -u unused -p $(oc whoami -t) localhost:5000/openshift
```

Build images

```
podman build -f src/main/docker/Dockerfile.jvm -t localhost:5000/openshift/todo-app:v1  
.
```

Push images to registry on OpenShift

```
podman push --tls-verify=false localhost:5000/openshift/todo-app:v1
```

Deploy todo-app

Create a new namespace named todo

```
oc create namespace todo
```

*Apply configmap **todo-app-configmap** to namespace todo*

```
oc apply -f todo-app-configmap.yaml -n todo
```

Apply deployment `todo-app-deployment` to namespace `todo`

```
oc apply -f todo-app-deployment.yaml -n todo
```

Apply service `todo-app` to `todo` namespace

```
oc apply -f todo-app-service.yaml -n todo
```

Use Todo app

- [Start page](#)
- [health](#)
- [metrics](#)
- [swagger-ui](#)

Testing

Read list of `ToDo`s via *Curl*

```
curl -I \
  -H "accept: application/json" \
  "http://console-openshift-console.apps-crc.testing:32284/todos?from=0&limit=2"
```

[test-scripts/curl_list_todos.sh](#)

Create a `ToDo` via *Curl*

```
curl -H "accept: application/json" \
  -H "Content-Type: application/json" \
  -d '{"body": "Curl test - body", "subject": "'$(date +%Y-%m-%dT%H:%M:%S%z)'"
  - Curl test - subject"}' \
  -X POST "http://console-openshift-console.apps-crc.testing:32284/todos"
```

[test-scripts/curl_create_one_todo.sh](#)

Create 100 Todos via Curl

```
#!/bin/bash

for i in {1..100}
do
    curl -H "accept: application/json" \
        -H "Content-Type: application/json" \
        -d "{\"body\": \"Curl test - body\", \"subject\": \"\"$(date +%Y-%m-%dT%H:%M:%S%z)\" - Curl test - subject}\"" \
        -X POST "http://console-openshift-console.apps-crc.testing:32284/todos"
done
```

[test-scripts/curl_create_100_todo.sh](#)

Create Todos via Apache HTTP server benchmarking tool

```
#!/bin/bash

if [ -f "createToDo.json" ]; then
    rm -f createToDo.json
fi

cat <<-EOF > "createToDo.json"
{
    "body": "body - ab testing",
    "subject": "subject - ab testing"
}
EOF

ab -n 100 -c 10 -T "application/json" -p createToDo.json -m POST \
    http://console-openshift-console.apps-crc.testing:32284/todos
```

[test-scripts/ab_create_todos.sh](#)

Read list of Todos via Apache HTTP server benchmarking tool

```
#!/bin/bash

ab -n 1000 -c 10 -T "application/json" \
    http://console-openshift-console.apps-crc.testing:32284/todos
```

[test-scripts/ab_list_todos.sh](#)

Links

[Apache HTTP server benchmarking tool](#)