

Assignment 1

```
C:\Servers\oc>oc login --token=sha256~NSabQT6l40XCwFJS_I8NZ2kbcpf281xTz265BcJFFMY --server=https://api.useast-2-lev-3.mcp.fisdev.local:6443
Logged into "https://api.useast-2-lev-3.mcp.fisdev.local:6443" as "e5736606" using the token provided.

You have one project on this server: "5736606-training"

Using project "5736606-training".

C:\Servers\oc>
```

https://bitbucket.fis.dev/users/e5736606/repos/assignment-node-repo/browse

BitbucketYour workProjectsRepositories

Search

Finish update

Amit Jain / assignment-node-repo

Source

masterassignment-node-repo

BrowseFilter

Source	Description	Size	Last Modified
controllers			
public			
routes			
test			
tomEE			
views			
Dockerfile	add	113 B	4 days ago
index.js	add	378 B	4 days ago
package.json	add	805 B	4 days ago
README.md	add	4.33 KB	4 days ago

Project: 5736606-training

BuildConfigs

Create BuildConfig

Filter

NameSearch by name...

Name	Last run	Last run status	Last run time	Last run duration
node-config	node-config-l	Complete	Mar 10, 2025, 4:21 PM	6 minutes 36 seconds

Project: 5736606-training ▾

Builds > Build details

node-config-1 Complete

Actions ▾

Details Metrics YAML Environment Logs Events

Log stream ended.

Search

☐ Show full log

☐ Wrap lines

Raw

Download

Expand

```
72 lines
62 Copying blob sha256:1d281e50d3e435595c266df06531a7e8c2ebb0c185622c8ab2eed8d760e6576b
63 Copying blob sha256:2023c7e889e5ca4483aa7d76a1e86901e978b09b0bb659c37b77425af5652446
64 Copying blob sha256:155ad54a8b2812a0ec559ff82c0c6f0f0dddb337a226b11879f09e15f67b69fc
65 Copying blob sha256:064af4b530a4d2cccfa45e67e2d9c67459c6f0f9a3ef7034be2e00a0c2b7eb8
66 Copying blob sha256:f967fba1c0760ef3a69ec322a79470fadf853f3023880e9c0c0293e887c77d34
67 Copying blob sha256:c5b32828bee2bc043b6e507224faadc82c7a3ca14ac499f00b4e27b766ec926d
68 Copying blob sha256:5deec02ffc0ac2501a53111f1853e362b019f3f3a34c65a93af6585f4399219d
69 Copying config sha256:84cf9fed8c9ceaf1d9c52516381f054415eeea31a5651e7991acb26c53a2ed3
70 Writing manifest to image destination
71 Successfully pushed training-docker-snapshot-local.docker.fis.dev/e5736606-node-one@sha256:7c651ac5f6852b4bdb607075f4f9f29e6d2fb1df5092d4b
72 Push successful
```

Project: 5736606-training ▾

Builds

Filter ▾ Name ▾ Search by name... /

Name ▾	Status ▾	Start time ▾	Duration ▾	
node-config-1	Complete	Mar 10, 2025, 4:21 PM	6 minutes 36 seconds	⋮

training

Clear

My Favorites 0

Tree View:

e5734585-java-api-app

> e5734585-java-api-app

> e5734585-java-api-app2

> e5734585-java-api-optimized-app

> e5734585-java-api-real-check

> e5734585-second-app

> e5734585-training-dockerfile-1

> e5736606-assignment-one

> e5736606-assignment-two

> e5736606-node-one

> 1.0.0-latest

> java-spring-rest-api

> naveen-cpu-node-rest-api

> naveen-nodejs-casestudy-api

> naveen-nodejs-rest-api

1.0.0-latest

General Info Effective Permissions Properties Followers

Info

Name: 1.0.0-latest

Repository Path: training-docker-snapshot-local/e5736606-node-one/1.0.0-latest/

File URL: https://artifactory.fis.dev/artifactory/training-docker-snapshot-local/e5736606-no...

Deployed By: e5736606

Artifact Count / Size: Show

Created: 2025-03-10T10:58:23+0000 (4d 0h 37m 50s ago)

D assignment-one-deployment

Actions

Details Metrics YAML ReplicaSets Pods Environment Events

Name Search by name...

Name	Status	Labels	Owner	Created
RS assignment-one-deployment-69f8644fc5	3 of 3 pods	app=assignment-one-deployment pod-template-hash=69f8644fc5	D assignment-one-deployment	Mar 14, 2025, 4:26 PM

Project: 5736606-training

D assignment-one-deployment

Actions

Details Metrics YAML ReplicaSets Pods Environment Events

Filter Name Search by name...

Name	Status	Ready	Restarts	Owner	Memory	CPU	Created
P assignment-one-deployment-69f8644fc5-mgvh2	Running	1/1	0	RS assignment-one-deployment-69f8644fc5	17.3 MiB	0.000 cores	Mar 14, 2025, 4:50 PM
P assignment-one-deployment-69f8644fc5-nsqs9	Running	1/1	0	RS assignment-one-deployment-69f8644fc5	17.3 MiB	0.000 cores	Mar 14, 2025, 4:50 PM
P assignment-one-deployment-69f8644fc5-td459	Running	1/1	0	RS assignment-one-deployment-69f8644fc5	22.7 MiB	0.000 cores	Mar 14, 2025, 4:50 PM

```
$ curl assignment-one-service.5736606-training.svc.cluster.local:80
</html>
<!DOCTYPE html>
<html lang="en">




<head>
  <meta charset="utf-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <title></title>
  <meta name="HandheldFriendly" content="True" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0, viewport-fit=cover" />
  <link rel="stylesheet" href="/styles.min.css">
</head>
```

Project: 5736606-training ▼

Services

[Create Service](#)

Name ▼ Search by name... /











Name ↑	Labels ↑	Pod selector ↑	Location ↑	
 assignment-one-service	app=assignment-one-service	 app=assignment-one-deployment	10.45.66.223:80	



Project: 5736606-training ▼

Routes

[Create Route](#)

Filter ▼ Name ▼ Search by name... /

Name ↑	Status	Location ↑	Service ↑	
 assignment-one-route1	✔ Accepted	https://assignment-one-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 assignment-one-service	
 assignment-one-route2	✔ Accepted	https://assignment-one-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 assignment-one-service	

→   https://assignment-one-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local

[Home](#)

[dependencies](#)

[minimum-secure](#)

[latest-releases](#)

API with Express Router & Handlebar Templates

dependencies



minimum-secure



latest-releases



← →   https://assignment-one-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local



[Home](#)

[dependencies](#)

[minimum-secure](#)

[latest-releases](#)

API with Express Router & Handlebar Templates

dependencies



minimum-secure



latest-releases



Assignment 2

Amit Jain / assignment-two-java

Source

master

...

assignment-two-java /

Source	Description
.mvn/wrapper	
gradle/wrapper	
src	
build.gradle	java add
Dockerfile	java add
gradlew	java add
gradlew.bat	java add
manifest.yml	java add
mvnw	java add
mvnw.cmd	java add
pom.xml	java add
settings.gradle	java add

Project: 5736606-training

Secrets

Create

Filter

NameSearch by name...



Name	Type	Size	Created	
artifactory-secret	kubernetes.io/dockerconfigjson	1	Mar 8, 2025, 1:26 PM	
bitbucket-key	kubernetes.io/ssh-auth	1	Mar 8, 2025, 1:19 PM	

Project: 5736606-training ▾

BuildConfigs

Create BuildConfig


Filter ▾ Name ▾ Search by name... /

Name ▴ ▾	Last run ▴ ▾	Last run status ▴ ▾	Last run time ↓	Last run duration ▴ ▾	
 assignment-javaapp-config	 assignment-javaapp-config-1	Complete	Mar 9, 2025, 2:36 AM	7 minutes 45 seconds	⋮

Project: 5736606-training ▾


Builds

Filter ▾ Name ▾ Search by name... /

Name ▴ ▾	Status ▴ ▾	Start time ↓	Duration ▴ ▾	
 assignment-javaapp-config-1	Complete	Mar 9, 2025, 2:36 AM	7 minutes 45 seconds	⋮

× Clear

My Favorites 0

Tree View: 

1.0.0-latest

General


Info


Effective Permissions


Properties

Followers

Info


Name: 1.0.0-latest 

Repository Path: training-docker-snapshot-local/e5736606-assignment-two/1.0.0-latest/ 

File URL: https://artifactory.fis.dev/artifactory/training-docker-snapshot-local/e5736606-ass... 

Deployed By: e5736606

Artifact Count / Size: Show

Created: 2025-03-08T21:13:45+0000 (0d 0h 6m 26s ago) 

training

e5695693-second-app

e5695693-third-app

e5734585-dot-net

e5734585-first-app

e5734585-java-api-app

e5734585-java-api-app2

e5734585-java-api-optimized-app

e5734585-second-app

e5734585-training-dockerfile-1

e5736606-assignment-one

e5736606-assignment-two

1.0.0-latest

manifest.json

sha256_51631fe5dc907fa7751b1

sha256_92d70a2a11935d8067c9

P assignment-two-deployment-79fcb4b55d-8rczb Running

Details Metrics YAML Environment Logs Events Terminal

Log streaming... assignment-two-deployment Current log Search

☐ Show full log ☐ Wrap lines

18 lines

```
9
10 2025-03-09T05:00:41.843Z INFO 1 --- [ main] c.e.restservice.RestServiceApplication : Starting RestServiceApplication v0.0.1-SNAPS
11 2025-03-09T05:00:41.937Z INFO 1 --- [ main] c.e.restservice.RestServiceApplication : No active profile set, falling back to 1 def
12 2025-03-09T05:00:56.435Z INFO 1 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port 8080 (http)
13 2025-03-09T05:00:56.543Z INFO 1 --- [ main] o.apache.catalina.core.StandardService : Starting service [Tomcat]
14 2025-03-09T05:00:56.634Z INFO 1 --- [ main] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/10.1.
15 2025-03-09T05:00:58.035Z INFO 1 --- [ main] o.a.c.c.C.[Tomcat].[localhost].[/] : Initializing Spring embedded WebApplicationConte
16 2025-03-09T05:00:58.037Z INFO 1 --- [ main] w.s.c.ServletWebServerApplicationContext : Root WebApplicationContext: initialization
17 2025-03-09T05:01:05.935Z INFO 1 --- [ main] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port 8080 (http) with con
18 2025-03-09T05:01:06.137Z INFO 1 --- [ main] c.e.restservice.RestServiceApplication : Started RestServiceApplication in 30.002 sec
```

Deployments Create Deployment

Name Search by name...

Name	Status	Labels	Pod selector
D assignment-two-deployment	2 of 2 pods	No labels	Q app=assignment-two-deployment

D assignment-two-deployment Active

Details Metrics YAML ReplicaSets Pods Environment Events

Name Search by name...

Name	Status	Labels	Owner	Created
RS assignment-two-deployment-79fcb4b55d	2 of 2 pods	app=assignment-two-deployment pod-template-hash=79fcb4b55d	D assignment-two-deployment	Mar 9, 2025, 10:30 AM

RS assignment-two-deployment-79fcb4b55d

Details YAML Pods Environment Events

Filter

Name

Search by name...

Name	Status	Ready	Restarts	Node	Memory	CF
<div>P</div> assignment-two-deployment-79fcb4b55d-8rczb	<div>Running</div>	1/1	0	<div>N</div> useast-2-lev-3-worker-3-62kpw	88.2 MiB	0.0
<div>P</div> assignment-two-deployment-79fcb4b55d-j4hln	<div>Running</div>	1/1	0	<div>N</div> useast-2-lev-3-worker-2-8w959	86.1 MiB	0.0



RS assignment-two-deployment-79fcb4b55d

Details YAML Pods Environment Events

ReplicaSet details

Name

assignment-two-deployment-79fcb4b55d

Current count

2

Namespace

NS

 5736606-training

Desired count

2

Labels

app=assignment-two-deployment

pod-template-hash=79fcb4b55d

Edit

PodDisruptionBudget

No PodDisruptionBudget

Pod selector

Q

 app=assignment-two-deployment, pod-template-hash=79fcb4b55d



...

Services

Create Service

Name ▾

Search by name... /

Name ▾ ↓	Labels ↑	Pod selector ↑	Location ↑	
 assignment-two-service	app=assignment-two-service	 app=assignment-two-deployment	10.45.22.133:80	⋮









Routes

Create Route

Filter ▾

Name ▾

Search by name... /

Name ▾ ↓	Status	Location ↑	Service ↑	
 assignment-two-route2	✔ Accepted	https://assignment-two-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 assignment-two-service	⋮
 assignment-two-route1	✔ Accepted	https://assignment-two-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 assignment-two-service	⋮

← → ↻  https://assignment-two-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local/greeting


pretty-print ☐

```
{"id":9,"content":"Hello, World!"}
```

← → ↻  https://assignment-two-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local/greeting

pretty-print ☐

```
"id":19,"content":"Hello, World!"}
```

← → ↻  https://assignment-two-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local/greeting



retty-print ☐

```
"id":5,"content":"Hello, World!"}
```

Assignment 3

Project: 5736606-training ▼

[Pods](#) > Pod details

 **assignment-one-deployment-796c77d885-p6625**  Running

Details

Metrics


YAML

Environment

Logs

Events

Terminal

Connecting to  assignment-one-deployment

```
$ curl http://assignment-two-service.5736606-training.svc.cluster.local:80/greeting
{"id":5,"content":"Hello, World!"}$
```

```
$ curl http://assignment-two-service.5736606-training.svc.cluster.local:80/greeting
{"id":5,"content":"Hello, World!"}$
```

Assignment 4

```
C:\app\yaml\4\helm1>..\helm\helm lint node-web-app
==> Linting node-web-app
[INFO] Chart.yaml: icon is recommended

1 chart(s) linted, 0 chart(s) failed
```




```
C:\app\yaml\4\helm1>..\helm\helm install --dry-run node-web-app-release-1 node-web-app
NAME: node-web-app-release-1
LAST DEPLOYED: Sat Mar 15 12:39:00 2025
NAMESPACE: 5736606-training
STATUS: pending-install
REVISION: 1
TEST SUITE: None
HOOKS:
MANIFEST:
---
# Source: node-web-app/templates/service.yaml
kind: Service
apiVersion: v1
metadata:
  name: node-api-helm-app-service
  labels:
    app: node-api-helm-app-service
spec:
  ports:
    - protocol: TCP
      port: 80
      targetPort: 3000
  type: ClusterIP
  selector:
    app: node-api-helm-app-deployment
---
# Source: node-web-app/templates/deployment.yaml
kind: Deployment
apiVersion: apps/v1
metadata:
```

```
C:\app\yaml\4\helm1>..\helm\helm install node-web-app-release-1 node-web-app
NAME: node-web-app-release-1
LAST DEPLOYED: Sat Mar 15 12:40:26 2025
NAMESPACE: 5736606-training
STATUS: deployed
REVISION: 1
TEST SUITE: None
```

Deployments

[Create Deployment](#)














Name ▼ Search by name... /

Name ↑	Status ↑	Labels ↓	Pod selector ↑	
 node-api-helm-app-deployment	2 of 2 pods	<div>app=node-api-helm-app-deployment</div> <div>app.kubernetes.io/managed-by=Helm</div>	 app=node-api-helm-app-deployment	

Services

[Create Service](#)

Name ▼ Search by name... /

Name ↑	Labels ↓	Pod selector ↑	Location ↑	
 node-api-helm-app-service	<div>app=node-api-helm-app-service</div> <div>app.kubernetes.io/managed-by=Helm</div>	 app=node-api-helm-app-deployment	10.45.38.116:80	
 node-api-helm-app-route1	✔ Accepted	https://node-api-helm-app-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 node-api-helm-app-service	
 node-api-helm-app-route2	✔ Accepted	https://node-api-helm-app-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local  	 node-api-helm-app-service	

<https://node-api-helm-app-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local>[Home](#)[dependencies](#)[minimum-secure](#)[latest-releases](#)

API with Express Router & Handlebar Templates

dependencies



minimum-secure



latest-releases



API with Express Router & Handlebar Templates

dependencies



minimum-secure



latest-releases



```
C:\app\yaml\4\helm1>..\helm\helm package node-web-app
Successfully packaged chart and saved it to: C:\app\yaml\4\helm1\node-web-app-1.0.0.tgz
```

```
C:\app\yaml\4\helm2>..\helm\helm lint java-web-app
==> Linting java-web-app
[INFO] Chart.yaml: icon is recommended
1 chart(s) linted, 0 chart(s) failed
```

```
C:\app\yaml\4\helm2>..\helm\helm install --dry-run java-web-app-release-1 java-web-app
NAME: java-web-app-release-1
LAST DEPLOYED: Sat Mar 15 12:52:25 2025
NAMESPACE: 5736606-training
STATUS: pending-install
REVISION: 1
TEST SUITE: None
HOOKS:
MANIFEST:
---
# Source: java-web-app/templates/service.yaml
kind: Service
apiVersion: v1
metadata:
  name: java-api-helm-app-service
  labels:
    app: java-api-helm-app-service
spec:
  ports:
    - protocol: TCP
      port: 80
      targetPort: 8080
  type: ClusterIP
  selector:
    app: java-api-helm-app-deployment
---
# Source: java-web-app/templates/deployment.yaml
kind: Deployment
```





```
C:\app\yaml\4\helm2>..\helm\helm install java-web-app-release-1 java-web-app
NAME: java-web-app-release-1
LAST DEPLOYED: Sat Mar 15 12:53:16 2025
NAMESPACE: 5736606-training
STATUS: deployed
REVISION: 1
TEST SUITE: None
```

Project: 5736606-training ▼

Deployments

Create Deployment

Name ▼ Search by name... /

Name ↑	Status ↑	Labels ↑	Pod selector ↑
 node-api-helm-app-deployment	2 of 2 pods	<div>app=node-api-helm-app-deployment</div> <div>app.kubernetes.io/managed-by=Helm</div>	 app=node-api-helm-app-deployment ⋮
 java-api-helm-app-service	<div>app=java-api-helm-app-service</div> <div>app.kubernetes.io/managed-by=Helm</div>	 app=java-api-helm-app-deployment	10.45.87.128:80 ⋮

RT java-api-helm-app-route1	Accepted	https://java-api-helm-app-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local	S java-api-helm-app-service	⋮
RT java-api-helm-app-route2	Accepted	https://java-api-helm-app-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local	S java-api-helm-app-service	⋮

← → ↻ 🌐 <https://java-api-helm-app-route1-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local/greeting>

pretty-print ☐

```
"id":1,"content":"Hello, World!"}
```

← → ↻ 🌐 <https://java-api-helm-app-route2-5736606-training.apps.useast-2-lev-3.mcp.fisdev.local/greeting>

Pretty-print ☐

```
{"id":2,"content":"Hello, World!"}
```

```
C:\app\yaml\4\helm2>.\helm\helm package java-web-app
Successfully packaged chart and saved it to: C:\app\yaml\4\helm2\java-web-app-1.0.0.tgz
```