# **Advanced Deployment with OpenShift – Homework**

This is a document to provide the necessary information about running the script which is used to deploy the OpenShift cluster and complete the CICD pipeline which is needed to successfully complete the homework assignment.

### Git repository with the homework scripts:

https://github.com/dulecux/ocp\_advanced\_deployment\_homework

Step	Description	Command
1.	Go to root	sudo -i
2.	Clone the git	git clone
	repository	https://github.com/dulecux/ocp_advanced_deployment_homework.git
3.	Run the ansible	ansible-playbook
	playbook	./ocp_advanced_deployment_homework/homework.yaml
4.	Uninstall the	sh ./ocp_advanced_deployment_homework/scripts/uninstall.sh
	cluster	
	(optional)	

The homework.yaml script automatically deploys the OpenShift cluster, creates PVs with different sizes (5G and 10G) and creates the different users requested in the assignment. The script also deploys the NodeJS-Mongo-Persistent app as a smoke test to see the ability to deploy a simple app. The CICD pipeline is created in the task-dev project and it is promoted to the task-prod project automatically through the pipeline. In the end the scripts provides two groups with the requested users and creates the limit ranges.

The following table represents the projects, their routes and login credentials:

Service	Route	Login	
name		credentials	
gogs	gogs-tasks-dev.apps.750d.example.opentlc.com	gogs/gogs	
jenkins	jenkins-tasks-dev.apps.750d.example.opentlc.com	andrew/r3dh4t1!	
nexus	nexus-tasks-dev.apps.750d.example.opentlc.com	admin/admin123	
sonarqube	sonarqube-tasks-dev.apps.750d.example.opentlc.com	admin/admin	
tasks	tasks-tasks-prod.apps.750d.example.opentlc.com		
node-js-app	nodejs-mongo-persistent-smoke-test.apps.750d.example.opentlc.com		

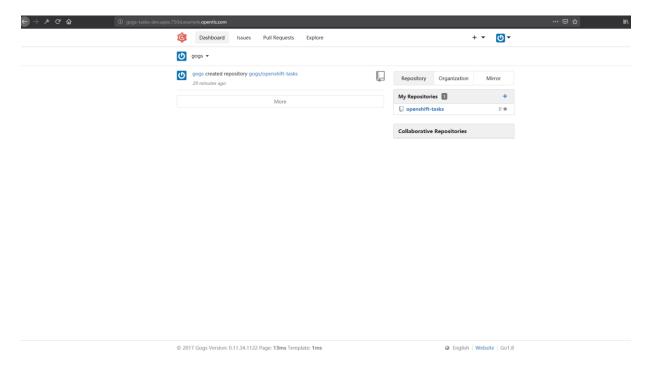
Release version -3.10.34

**Instructor** – Jindrich Kana

Venue – Garni Hotel Centar, Novi Sad Serbia

Participant – Dusan Culibrk (<u>dusan.culibrk@devoteam.com</u>)

## Gogs



## **Jenkins**

#### Pipeline tasks-dev/tasks-pipeline

Full project name: tasks-dev/tasks-dev-tasks-pipeline





#### Stage View

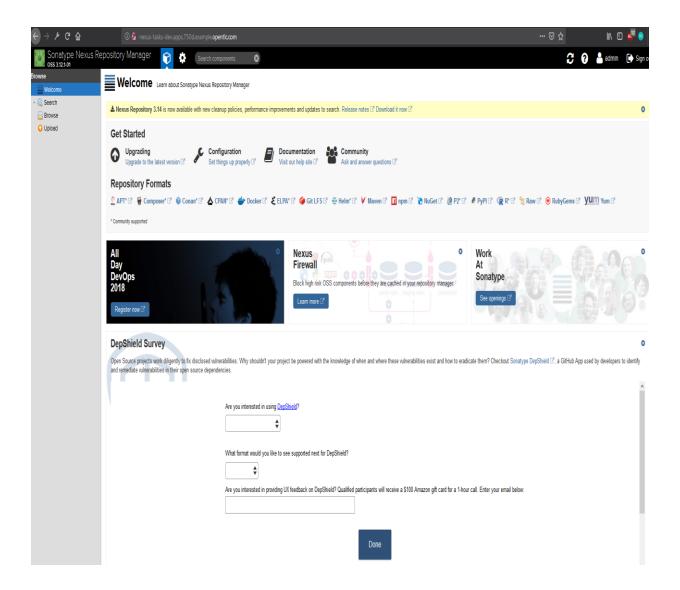
	Build App	Test	Code Analysis	Archive App	Create Image Builder	Build Image	Create DEV	Deploy DEV	Promote to STAGE?	Deploy STAGE
Average stage times:	1min 45s	9s	19s	6s	5s	57s	50s	458ms	572ms	3s
Oct 17 No Changes	1min 45s	9s	19s	6s	5s	57s	50s	458ms	572ms (paused for 1min 13s)	3s



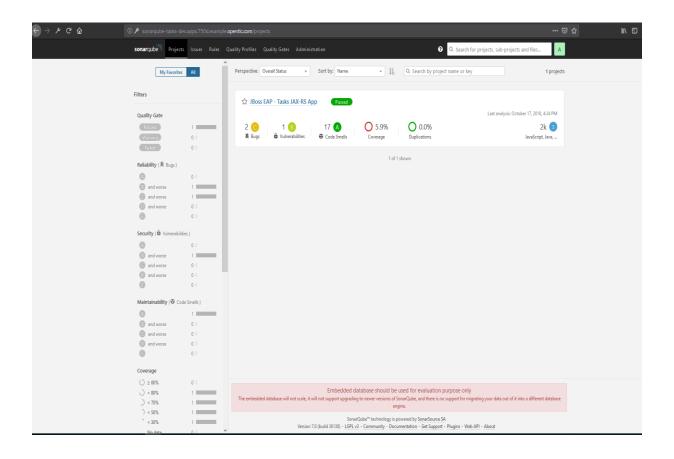
#### Permalinks

- Last build (#1), 23 min ago
  Last stable build (#1), 23 min ago
  Last successful build (#1), 23 min ago
  Last completed build (#1), 23 min ago

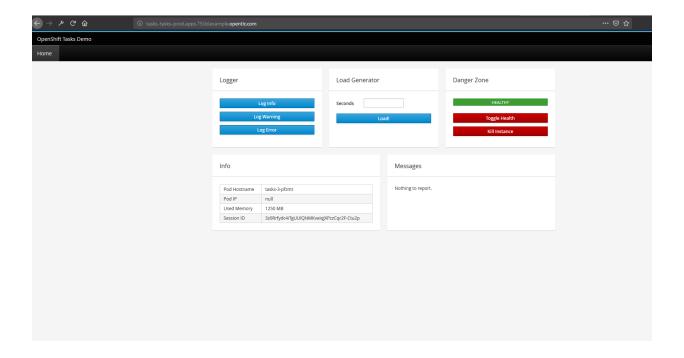
#### **Nexus**



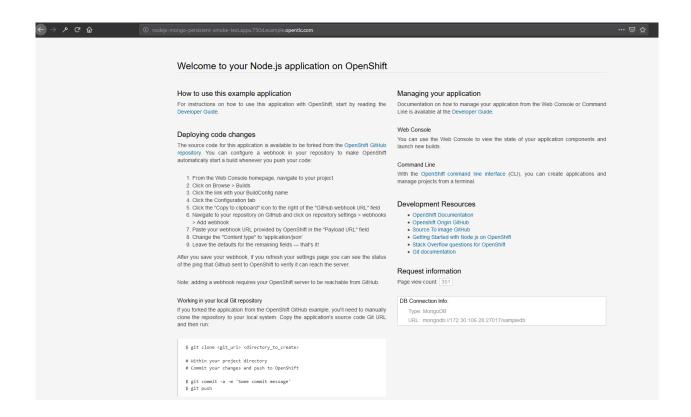
## Sonarqube



# Task-prod



## Nodejs-mongo-persistent



#### **Putty**