



zenika
<animés par la passion>

Kubernetes Configuration & Best Practices

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Table of Contents

1. Installation	2
2. Use helm to setup a CI/CD stack	2
2.1. Initialization	2
2.2. SonarQube	3
2.3. Jenkins	4
2.3.1. Gerrit	4
2.4. Gitlab	5
2.4.1. Prerequisite	5
2.5. Installation	5
2.6. Nexus3	5

Table 1. History

Date	Author	Detail
2018-11-13	bcouetil	- Updated sample project with Reveal.js generation - Duplicated Reveal.js execution to have multiple styles - Compromised layout between 4/3 and 16/9 - Minor changes in Reveal.js css - Added some web comics
2018-09-19	bcouetil	- Sample asciidoctor maven project published on Github - Github & LinkedIn links - Sample project tree - new images + resizing and positioning
2018-08-29	bcouetil	Asciidoc HTML look & feel changes
2018-08-24	bcouetil	Icones added for download + favicon added for webpage


```
apiVersion: v1
kind: ServiceAccount
metadata:
  name: tiller
  namespace: kube-system
---
apiVersion: rbac.authorization.k8s.io/v1beta1
kind: ClusterRoleBinding
metadata:
  name: tiller
roleRef:
  apiGroup: rbac.authorization.k8s.io
  kind: ClusterRole
  name: cluster-admin
subjects:
- kind: ServiceAccount
  name: tiller
  namespace: kube-system
```

```
kubectl create -f rbac-tiller-config.yaml
helm init --service-account tiller
helm repo update
```



if already initialized by mistake, use this command :

```
helm reset --force
```



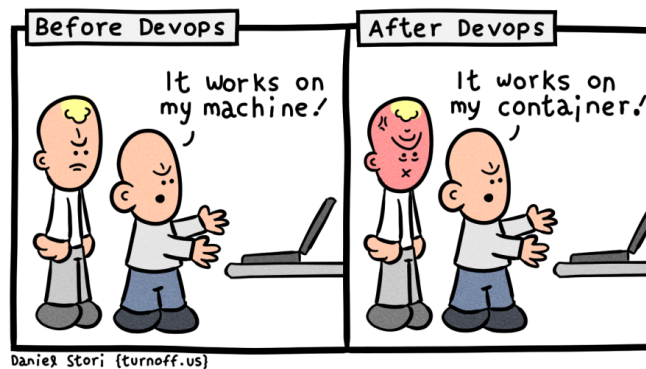
2.2. SonarQube

```
helm install stable/sonarqube
```

```
resources:
  cpu: 100m
  memory: 1536Mi
persistence:
  enabled: true
  storageClass: "-"
  accessMode: ReadWriteOnce
  size: 5Gi
plugins:
  install:
    - "https://github.com/AmadeusITGroup/sonar-stash/releases/download/1.3.0/sonar-stash-plugin-1.3.0.jar"
    - "https://github.com/SonarSource/sonar-ldap/releases/download/2.2-RC3/sonar-ldap-plugin-2.2.0.601.jar"
```



- See how to add plugins
 - Findbugs
 - LDAP
 - SoftVis3D Sonar plugin
 - SonarJava (update)
 - SonarQube :: Plugins :: SCM :: Git (update)



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2.3. Jenkins

```
helm install stable/jenkins
```

To get the admin password :

```
printf $(kubectl get secret --namespace cicd silly-clam-jenkins -o jsonpath="{.data.jenkins-admin-password}" | base64 --decode);echo
```

2.3.1. Gerrit

In progress, not in Helm/Charts yet. See ongoing project : <https://github.com/Novitoll/charts/tree/master/incubator/gerrit>



2.4. Gitlab

2.4.1. Prerequisite

Get a fixed IP

- Open the web console
- In the sidebar, browse to VPC Network > External IP addresses
- Click Reserve static address
- Choose Regional and select the region of your cluster
- Leave Attached to blank, as it will be automatically assigned during deployment

Have a domain

- TODO

2.5. Installation

Start the Gitlab installation, example :

```
helm upgrade --install gitlab gitlab/gitlab \
  --timeout 600 \
  --set global.hosts.domain=gitlab.nevrax-cicd.com \
  --set global.hosts.externalIP=35.184.74.117 \
  --set certmanager-issuer.email=nevraxgoespro@gmail.com
  --set gitlab.migrations.image.repository=registry.gitlab.com/gitlab-org/build/cng/gitlab-rails-ce
  --set gitlab.sidekiq.image.repository=registry.gitlab.com/gitlab-org/build/cng/gitlab-sidekiq-ce
  --set gitlab.unicorn.image.repository=registry.gitlab.com/gitlab-org/build/cng/gitlab-unicorn-ce
```

2.6. Nexus3



TODO

The Enterprise Journey to Cloud



Startups Journey to cloud



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Thanks to Michael Tharrington