SEK (DCAC/UAW) - How-To

IMPORTANT DOCUMENT

1. SEK (On Prem - Phx) - DevOps VM Details
2. UAW Architecture and Micro Services (On Prem)

DCAC URL's

https://iaddr-mos-dcac.us.oracle.com/#/dcac-main

https://uat-mos-dcac.us.oracle.com/#/dcac-main

https://mos-dcac.us.oracle.com/#/dcac-main

https://dm-mos-dcac.us.oracle.com

https://dev-mos-dcac.us.oracle.com/

https://stage-mos-dcac.us.oracle.com/

USEFUL COMMENDS

https://kubernetes.io/docs/reference/kubectl/cheatsheet/

```
kubectl logs kube-scheduler-pnmomv0316 -n kube-system
kubectl scale --replicas=1 deploy zookeeper-deployment -n uaw-uat
kubectl edit deploy zookeeper-deployment -n uaw-uat
kubectl get po -n uaw-uat -o wide
kubectl scale --replicas=0 deploy uawmessagemonitor-deployment podcontrollerservice-deployment
uawmessageprocessservice-deployment -n uaw-uat
kubectl logs kube-scheduler-pnmomv0316 -n kube-system
```

IMPORTANT URL'S

```
Jenkins URL - https://ci-cloud.us.oracle.com/jenkins/gcsdev-prod/
Helm Repository - https://gcsdev-oci-helm-local.dockerhub-phx.oci.oraclecorp.com/gcsdev-oci-helm-local/dcac
/prod/
ALM GIT -- jenkins_us%40oracle.com@alm.oraclecorp.com:2222/gcsdev_dcac_24246/DCAC-Auth.git
Jfrog (artifact hub) - https://bds-docker.dockerhub-phx.oci.oraclecorp.com/ui/
maven -  http://acs-maven.us.oracle.com/content/groups/repo/com/oracle/acs/microservices/app-starter-parent/20.
2.0-SNAPSHOT/maven-metadata.xml
```

HELM CHART VALUES

/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/Chart.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.dev.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.int-1.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.int-2.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.phxprod.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.phx-uat.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.prod.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.stage.yaml
repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.uat.yaml
/repository/jenkins/workspace/SEK/DCAC/PROD-CI-PHX/AuthService/auth/src/main/kubernetes/charts/auth/values.yaml

What is Maven and why it is used?

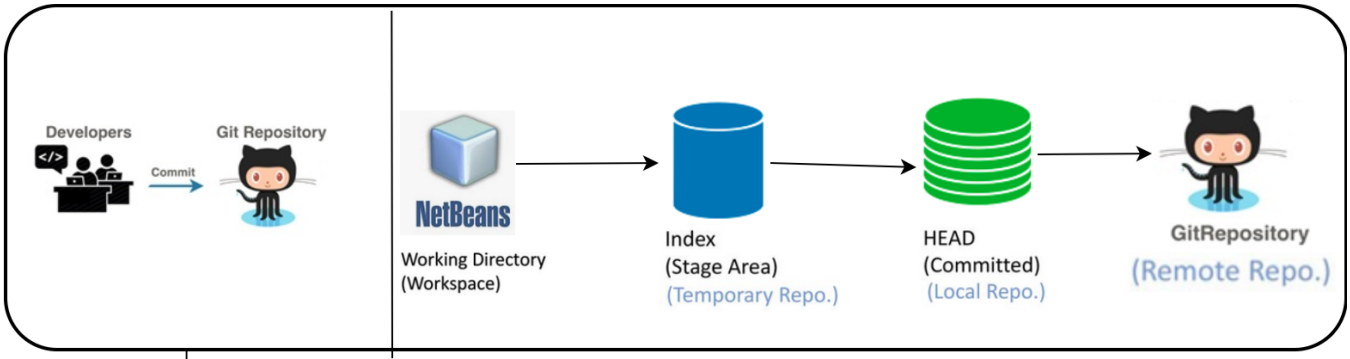
Maven is **chiefly used for Java-based projects, helping to download dependencies, which refers to the libraries or JAR files**.

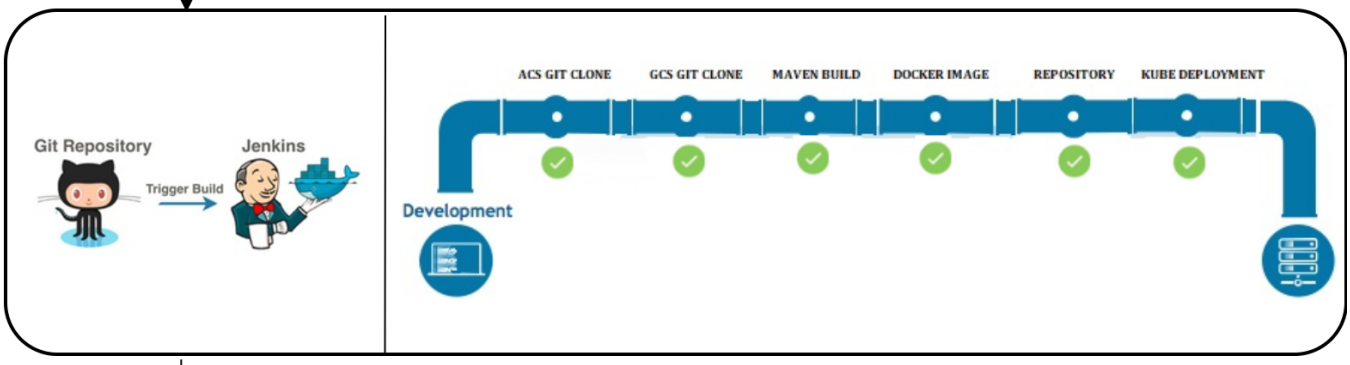
HELM

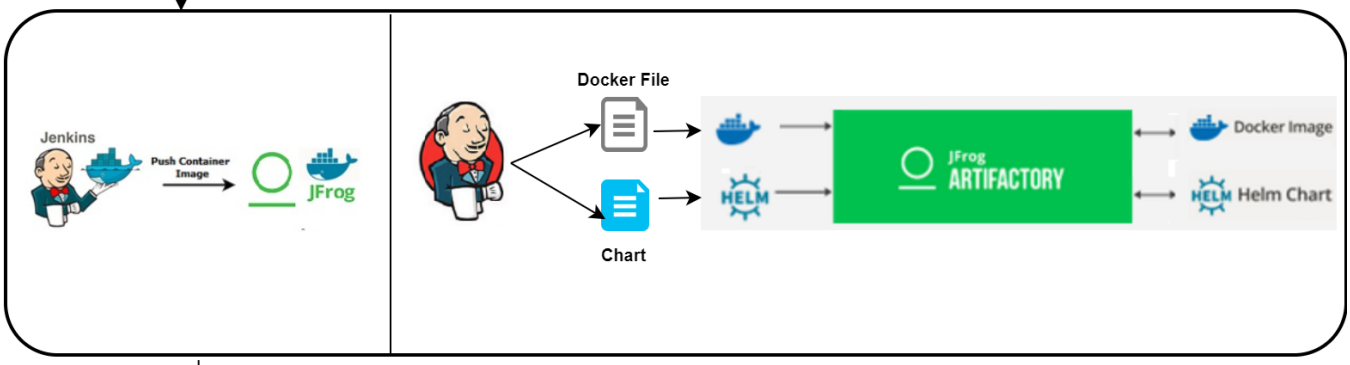
Helm is a tool that automates the creation, packaging, configuration, and deployment of Kubernetes applications by combining your configuration files into a single reusable package

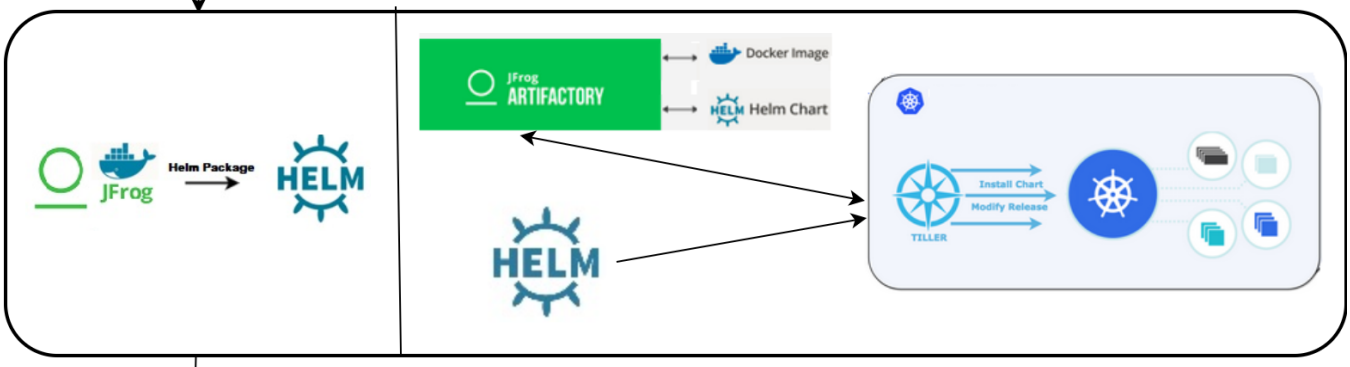
Why do we use Helm?

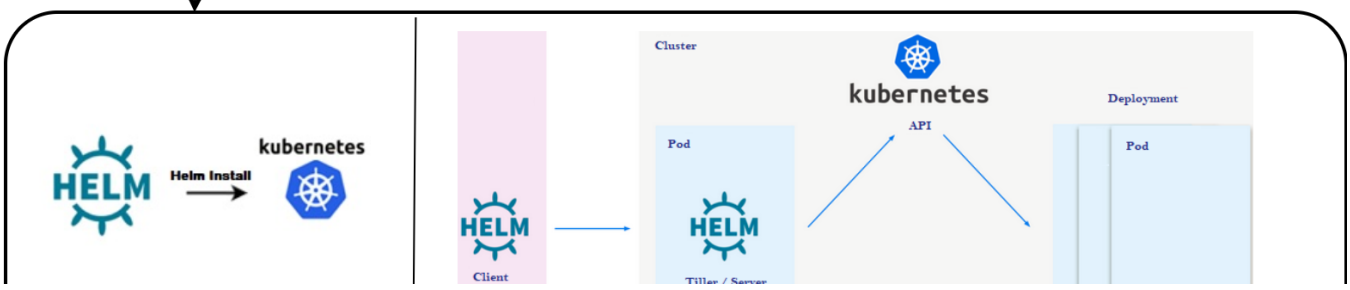
The objective of Helm as package manager is **to make an easy and automated management (install, update, or uninstall) of packages for Kubernetes applications, and deploy them with just a few commands**.


Developers
Commit
Git Repository
NetBeans
Working Directory
(Workspace)
Index
(Stage Area)
(Temporary Repo.)
HEAD
(Committed)
(Local Repo.)
GitRepository
(Remote Repo.)


Git Repository
Trigger Build
Jenkins
ACS GIT CLONE
GCS GIT CLONE
MAVEN BUILD
DOCKER IMAGE
REPOSITORY
KUBE DEPLOYMENT
Development


Jenkins
Push Container Image
JFrog
Docker File
Chart
JFrog ARTIFACTORY
Docker Image
Helm Chart


JFrog
Helm Package
HELM
JFrog ARTIFACTORY
Docker Image
Helm Chart
HELM
Install Chart
Modify Release
TILLER


HELM
Helm Install
kubernetes
Client
Cluster
kubernetes
API
Deployment
Pod
Pod
HELM
Tiller / Server

SEK (On Prem) - Multi-Master OLCNE Configuration

```
systemctl status olcne-nginx
systemctl status keepalived
ip addr | grep <vip address> kubectl config view
```

DCAC PROXY Changes

vi /etc/yum.conf
vi /etc/profile
vi /etc/systemd/system/crio.service.d/proxy.conf

:%s/dmz-proxy-adcq7.us.oracle.com/dmz-proxy-sjc.oraclecorp.com

systemctl daemon-reload
systemctl restart crio.service