**0. important commands**

--- Reference - <https://bitnami.com/stacks>

**Helm workflow**

Stage1 - it will load charts

Stage2 - substitute the values through values.yml

Stage3 - render the required kubernetes templates and formats those templates into yml

Stage4 – submit the yaml files to the kubernetes.

**Install Helm**

--- Reference - <https://helm.sh/docs/intro/install/>

--- Helm is written in Google Go programming language, which is a compiled language so you can download the binaries for your operating system and start using it.

--- the recommended and easy way is to use the packaging manager for any operating system.

**Install on MacOS**

--- **Reference** - <https://helm.sh/docs/intro/install/>

**# Install helm on MacOS**

--- brew install helm

**Install on windows**

--- **Reference** - <https://helm.sh/docs/intro/install/>

**# Install helm on windows**

--- choco install kubernetes-helm

**Install on Debian/ubuntu (apt)**

--- **Reference** - <https://helm.sh/docs/intro/install/>

**# Install on Debian/ubuntu**

--- curl https://baltocdn.com/helm/signing.asc | gpg --dearmor | sudo tee /usr/share/keyrings/helm.gpg > /dev/null

--- sudo apt-get install apt-transport-https --yes

--- echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/helm.gpg] https://baltocdn.com/helm/stable/debian/ all main" | sudo tee /etc/apt/sources.list.d/helm-stable-debian.list

--- sudo apt-get update

--- sudo apt-get install helm

--- You should have homebrew installed.

**Install on fedora (dnf/yum)**

--- **Reference** - <https://helm.sh/docs/intro/install/>

**# Install on fedora (dnf/yum)**

--- sudo dnf install helm

**Helm commands**

**# Add bitnami repository to your repositories.**

--- helm repo add bitnami <https://charts.bitnami.com/bitnami>

**# List repos**

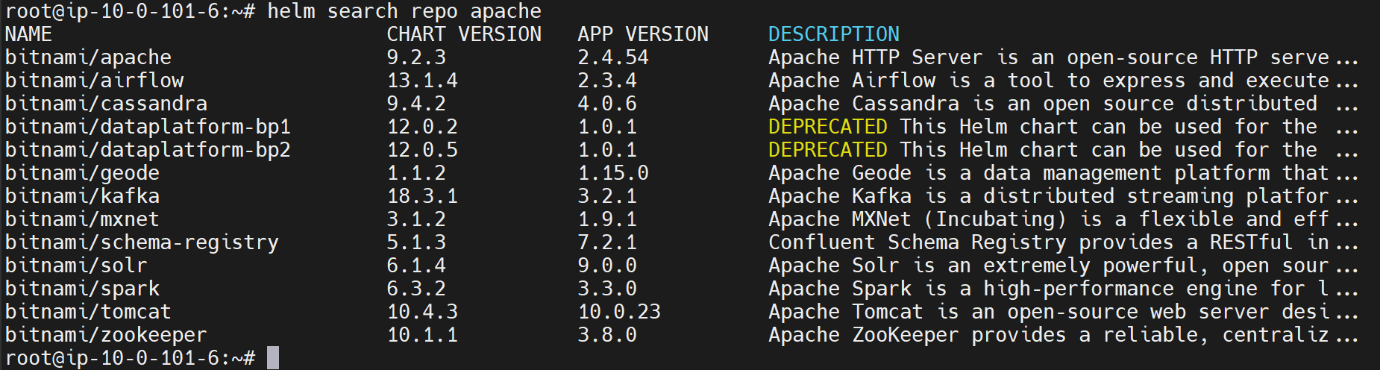
--- helm repo list

**# Lis the installed packaged.**

--- helm list or helm ls

**# Search apache chart in bitnami repo**

--- helm search repo apache



--- **note** – you have chart version and app version.

--- **note** – by default, you will only see the latest version of apache. If you want to see the all the versions of apache then execute the below command.

**# To see the all the version of apache.**

--- helm search repo apache –versions

**Remove repo**

**# Remove the repository**

--- helm repo remove bitnami

**install packages**

**# Install mysql with helm**

--- helm install <dbname> bitnami/mysql

--- helm install mydb bitnami/mysql

**# To see the default configuration information.**

--- helm status mydb

**Uninstall packages**

**# Remove package from namespace.**

--- helm uninstall jenkins

--- helm uninstall mydb

**# Uninstall packages form namespace.**

--- helm uninstall mydb -n <namespace-name>

**Providing custom values**

**# Create values.yml**

auth:

  rootPassword: "admin123"

**# Install mysql with custom password**

--- helm install mysql bitnami/mysql --values /root/mysql/values.yml

**Upgrade package chart**

**# Upgrade mysql**

--- helm upgrade mysql bitnami/mysql --values /root/mysql/values.yml

**# Reuse the values.yml without giving the file. (Need to use values.yml one time)**

--- helm upgrade mysql bitnami/mysql --reuse-values

**helm --dry-run**

**# Dry run mysql installation using helm**

--- helm install mysql bitnami/mysql --values /root/mysql/values.yml --dry-run