#################################### Pre-requisite ##################################

# # **Management Kubernetes cluster**

* This is the management cluster and is used to host Crossplane and ArgoCD
* This cluster can be provisioned by any approach, on cloud (EKS, AKS) or using Kind or Minikube
* In this hands-on we will create an EKS cluster to host Crossplane. You can refer to the Create EKS-Using-eksctl or Create-EKS-Using-UI file for instructions on creating an EKS cluster.

# # **ArgoCD installed**

* In case you want to use ArgoCD to install Crossplane

#################### Install Crossplane on EKS with Helm ###################

1. **Add the Crossplane Helm repository**

helm repo add crossplane-stable <https://charts.crossplane.io/stable>

helm repo update

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Check crossplane version

Helm search repo crossplane

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1. **Create a namespace for Crossplane**

It's a good practice to install Crossplane in its namespace.

kubectl create namespace crossplane-system



1. **Install Crossplane**

Now you can install Crossplane using Helm with the following command:

helm install crossplane --namespace crossplane-system --version 1.14.5 crossplane-stable/crossplane

This command installs Crossplane from the crossplane-stable repository into the crossplane-system namespace.

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Make sure Crossplane pod, services are up and running before moving to the next steps

kubectl get all -n crossplane-system

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There are some int containers that will install custom resource definitions into your cluster.

kubectl get crds | Select-String "crossplane.io" ( on Windows)

kubectl get crds | grep crossplane.io ( on Linux)

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4 **. (Optional) Install Crossplane CLI**

Crossplane offers a command-line interface to simplify some operations. You can install it as follows: https://docs.crossplane.io/latest/cli/

################ Install Crossplane on EKS Using ArgoCD ###################

1. Add Crossplane to Argo CD as an Application

You can deploy Crossplane using a Helm chart via Argo CD, which is a common method.

https://github.com/hoanglecao/argocd-crossplane/blob/main/crossplane-application.yaml

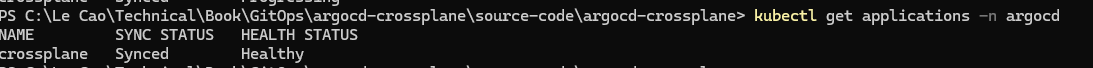
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1. Apply the Application Manifest

kubectl apply -f crossplane-application.yaml





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