ArgoCd

🡺 If you want to install argocd first install Kubernetes kubectl and Minikube.

🡺 Steps to install Kubernetes kubectl and Minikube.

**1**. launch the ubuntu server and login to the server.

2. run the below commands one by one

1. **sudo apt update**
2. **sudo apt install docker.io**
3. **sudo systemctl start docker**
4. **sudo systemctl enable docker**
5. **sudo apt install -y apt-transport-https ca-certificates curl**
6. **curl -s https://packages.cloud.google.com/apt/doc/apt-key.gpg | sudo apt-key add -**
7. **echo "deb https://apt.kubernetes.io/ kubernetes-xenial main" | sudo tee /etc/apt/sources.list.d/kubernetes.list**

3. To verify the installation, run:

1. **sudo snap install kubectl –classic**

**2. kubectl version –client**

4.Install Minikube:

1. **curl -LO** [**https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64**](https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64) **sudo install minikube-linux-amd64 /usr/local/bin/minikube**
2. **minikube version**

5.start the minikube using the docker driver:

1**. minikube start --driver=docker**  
2. # If you encounter root privileges error, run:  
 **minikube start --driver=docker --force  
3. minikube status**

6. now install the argoCd by using the given commands

1. **kubectl create namespace argocd**

**2. kubectl apply -n argocd -f** [**https://raw.githubusercontent.com/argoproj/argo- cd/stable/manifests/install.yam**](https://raw.githubusercontent.com/argoproj/argo-%20cd/stable/manifests/install.yam)

7.Check weather the argocd services and pods are created successfully or not

Commands are:

**Kubectl get pods -n argocd**

**Kubectl get svc -n argocd**

Once all services and pods are ready

Change the type in argocd-server service from CLUSTERIP to NODEPORT

Ex: type: Nodeport

Command: **kubectl edit svc/argocd-server -n argocd**

8.Now get the argocd UI url by running “**minikube service argocd-server -n argocd**” the command

9. if The UI is not open . do the port forward using this command “**kubectl port-forward svc/argocd-server -n**

**argocd 8080:443 --address 0.0.0.0 &**” #443 for https : 80 for http

Now open the using ipaddress:port which you have forwarded (ex 192.168.0.0.:8080)

10. Login to the argocd UI using username and password

Username is “admin”

Password present in the argocd-initial-admin-secret file which is present in secrets

Command to view that password id : **kubectl edit secret argocd-initial-admin-secret -n argocd**

Copy the password and decode (default password is encoded one we should decode that) by using the

command: **echo VTF0TmRUT3IyeEY4cHgwVw== | base64 --decode**

11. Copy the password and come to argocd UI and paste it login to the UI

12. now create one deployment by giving Git URL and path(folder name where manifest files are placed)

13. Automatically argocd run those manifest files and run the pods with the given image in the manifest file.

14. Take the ip address where the pods are running along with port paste it in browse you can get your output there.