**ArgoCD Architecture**

A diagram of a server

Description automatically generated

Argocd github link To download Latest Version of ArgoCD

<https://github.com/argoproj/argo-cd>

<https://github.com/argoproj/argo-cd/releases/tag/v2.7.4>  (till date this is latest version 2.7.4)

**Non-HA:**

# kubectl create namespace argocd   
# kubectl apply -n argocd -f <https://raw.githubusercontent.com/argoproj/argo-cd/v2.7.4/manifests/install.yaml>

**HA:**

# kubectl create namespace argocd   
# kubectl apply -n argocd -f <https://raw.githubusercontent.com/argoproj/argo-cd/v2.7.4/manifests/ha/install.yaml>

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In the context of the Argo CD installation commands you provided, "HA" and "non-HA" refer to different deployment configurations of Argo CD.

1. Non-HA (Non-High Availability): The non-HA configuration is a simple deployment of Argo CD that runs on a single instance or node. It does not provide high availability or redundancy. In this configuration, Argo CD is deployed as a single replica, which means there is only one instance of the Argo CD server running.
2. HA (High Availability): The HA configuration is designed for high availability and improved resilience. It involves deploying Argo CD in a distributed manner across multiple replicas or instances. In this configuration, Argo CD is deployed as multiple replicas, allowing for redundancy and load balancing.

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Create a Kuberenetes cluster on single machine and installing Argocd on it in separate namespace

Create Kubernetes Cluster

**$ sudo bash**

**# curl -sfL https://get.k3s.io | INSTALL\_K3S\_EXEC="server" sh -s - --disable traefik**

**# exit**

**$ mkdir**

**$ mkdir .kube**

**$ sudo cp /etc/rancher/k3s/k3s.yaml ./config**

**$ sudo chown dmistry:dmistry config**

**$ chmod 400 config**

**$ export KUBECONFIG=~/.kube/config**

Install ArgoCD[¶](https://docs.dman.cloud/tutorial-documentation/install-argocd/%22%20/l%20%22install-argocd" \t "_blank)

**# kubectl create namespace argocd**

**# kubectl apply -n argocd -f https://raw.githubusercontent.com/argoproj/argo-      cd/stable/manifests/install.yaml**

**-->from above two commands are creating argocd namespace in the cluster and second command deploying all pods from github link**

Change Service to NodePort[¶](https://docs.dman.cloud/tutorial-documentation/install-argocd/%22%20/l%20%22change-service-to-nodeport" \t "_blank)

Edit the service can change the service type from ClusterIP to NodePort

**# kubectl patch svc argocd-server -n argocd -p '{"spec": {"type": "NodePort"}}'**

Fetch Password[¶](https://docs.dman.cloud/tutorial-documentation/install-argocd/#fetch-password)

# kubectl -n argocd get secret argocd-initial-admin-secret -o jsonpath="{.data.password}" | base64 -d

(or)

-->find argocd server pod in the cluster pod name is a password

-->Now access the argocd through public-ip\_of\_machine:30009 paste on browser

-->it dispplay warning still go further