**Download AWX source code**:

git clone https://github.com/ansible/awx.git

cd awx

**Download the required Docker images**:

docker pull ansible/awx

docker pull postgres:12

docker pull redis

docker pull quay.io/ansible/awx-operator

Save these images to tar files:

Sudo docker save -o awx\_image.tar ansible/awx

Sudo docker save -o postgres\_image.tar postgres:12

Sudo docker save -o redis\_image.tar redis

Sudo docker save -o awx\_operator\_image.tar quay.io/ansible/awx-operator

**Download additional dependencies**:

Sudo pip download -r requirements.txt

**Transfer Files to the Air-Gapped Environment:**

Copy the awx directory to your air-gapped environment using a USB drive or any other secure method.

Copy the .tar files containing the Docker images to your air-gapped environment.

**Load Docker Images on the Air-Gapped Env:**

docker load -i awx\_image.tar

docker load -i postgres\_image.tar

docker load -i redis\_image.tar

docker load -i awx\_operator\_image.tar

**Install required Python packages**:

Sudo pip install --no-index --find-links=. -r requirements.txt

**Install AWX Operator**:

Sudo kubectl apply -f <https://raw.githubusercontent.com/ansible/awx-operator/devel/deploy/awx-operator.yaml>

**Configure and deploy AWX**:

Sudo kubectl create namespace awx-test

**Create a custom resource (CR) for AWX:**

---

apiVersion: apiextensions.k8s.io/v1

kind: CustomResourceDefinition

metadata:

name: awxes.awx.ansible.com

spec:

group: awx.ansible.com

versions:

- name: v1beta1

served: true

storage: true

schema:

openAPIV3Schema:

type: object

properties:

spec:

type: object

properties:

service\_type:

type: string

ingress\_type:

type: string

postgres\_storage\_size:

type: string

scope: Namespaced

names:

plural: awxes

singular: awx

kind: AWX

shortNames:

- awx

**Apply the CR:**

kubectl apply -f awx-test.yml

**Check the deployment:**

kubectl get pods -n awx

**Access AWX:**

You can use kubectl port-forward to forward the service port to your localhost:

kubectl port-forward svc/awx-service 80:80 -n awx