**System Requirements for Installing Ansible AWX Server**

2GB of memory

2 cpu cores

20GB of space

**Step 1./ Install required packages**

01- First, we need to install the EPEL Repository as below:

$ dnf install epel-release -y

02- Second, we need to install some dpendencies packages like ansible:

$ dnf install git gcc gcc-c++ nodejs gettext device-mapper-persistent-data lvm2 bzip2 python3-pip ansible

**Step 2./ Install Docker**

01- To install Docker, first, we need to install the Docker repository, so use the following command:

$ dnf config-manager --add-repo=https://download.docker.com/linux/centos/docker-ce.repo

02- Next, use the below command to install docker-ce package:

$ dnf install docker-ce --nobest -y

03- Once the installation finished, let’s enable and start the Docker daemon:

# systemctl enable --now docker.service

**Step 3./ Install Docker-compose tool**

01- First, set python3 as the default one by running the below command:

$ alternatives --set python /usr/bin/python3

02- Next, use pip3 command to install the docker-compose tool:

$ pip3 install docker-compose

**Step 4./ Install Ansible AWX**

01- Now we can finally install Ansible AWX. Clone the latest release with the command:

$ git clone -b "17.1.0" https://github.com/ansible/awx.git

02- Next, generate a secret encryption key with the command:

$ openssl rand -base64 30

PblrUyeSvBMVWqHaaDMFcABcjzgG5dAhfeOgge4S

03- navigate to the awx/installer directory and locate the inventory file. We need to adjust a few parameters:

$ cd awx/installer/

$ vi inventory

**Note: To persist the postgres data and the Ansible Awx, we already mounted partition to the directory /myawx**

[all:vars]

dockerhub\_base=ansible

awx\_task\_hostname=awx

awx\_web\_hostname=awxweb

postgres\_data\_dir="/myawx/pgdocker"

host\_port=80

host\_port\_ssl=443

docker\_compose\_dir="/myawx/awxcompose"

pg\_username=awx

pg\_password=awxpass

pg\_database=awx

pg\_port=5432

admin\_user=admin

admin\_password=password

create\_preload\_data=True

secret\_key=PblrUyeSvBMVWqHaaDMFcABcjzgG5dAhfeOgge4S

awx\_official=true

project\_data\_dir=/myawx/projects

04- So, to install Ansible AWX run the Ansible command:

$ ansible-playbook -i inventory install.yml

05- After the installation is done, you can check the containers created by the docker-compose as below:

$ docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

05e67f321693 ansible/awx\_task:11.2.0 "tini -- /bin/sh -c …" 10 seconds ago Up 7 seconds 8052/tcp awx\_task

26cbdca749ae ansible/awx\_web:11.2.0 "tini -- /bin/sh -c …" 12 seconds ago Up 9 seconds 0.0.0.0:80->8052/tcp awx\_web

ed03af85f7fa memcached:alpine "docker-entrypoint.s…" 17 seconds ago Up 11 seconds 11211/tcp awx\_memcached

4140dad07ece redis "docker-entrypoint.s…" 17 seconds ago Up 11 seconds 6379/tcp awx\_redis

5ccd44ed6285 postgres:10 "docker-entrypoint.s…" 17 seconds ago Up 12 seconds 5432/tcp awx\_postgres

06- In Case that the firewalld is enabled and running, then use the below commands to allow the http port (80) and https (443):

$ sudo firewall-cmd --zone=public --add-masquerade --permanent

$ sudo firewall-cmd --permanent --add-service=http

$ sudo firewall-cmd --permanent --add-service=https

$ sudo firewall-cmd --reload

07- If the Selinux enabled, use the below commands to Allow the Awx web server to access the network:

$ semanage port -a -t http\_port\_t -p tcp 8052

$ setsebool -P httpd\_can\_network\_connect 1

**Accessing Ansible AWX Web GUI**

01- To access AWX web console, open your browser and type in your AAnsible’s AWX server IP: http://awx-server-ip-address

**how-to-install-ansible-awx-centos-8-web-gui**

02- Finally, provide the username and password that been setup and you login to Ansible AWX dashboard:

**How to install ansible awx on centos 8**

Conclusion

You have successfully installed Ansible Awx on your CentOS 8 server. You might want to check the following guides :

How to Install and Configure Tower-cli Tool

How to add a new inventory, create a Host and Credential in AWX Ansible Tower

How to Create a Project in AWX / Ansible Tower