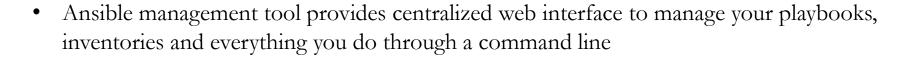
Complete Ansible Automation Training

Ansible Management Tools

Ansible Management Tools





- These tools also manage multiple Ansible control nodes
- There are 2 Ansible management tools
 - Ansible AWX (Free)
 - Ansible Tower (Licensed product)

- AWX stands for Ansible WorkX
- AWX is a web application that provides a user interface, REST API, and task engine for Ansible
- The AWX allows you to manage Ansible playbooks, inventories, run reports and schedule jobs
- Ansible AWX is an open-source, community driven management tool
- It is the upstream product, meaning all the changes are done on AWX first before it get to Ansible Tower
- The AWX Project is hosted on GitHub and Red Hat welcomes community contributions.
- The AWX project uses GitHub for its issue tracking as well. You can file your issues here:
 - https://github.com/ansible/awx/issues
- Red Hat does <u>NOT</u> recommend AWX for production environments.



Ansible AWX Pros and Cons



- Full enterprise features and functionality of Tower
- This is available for free download and use
- Not limited the number of nodes to be added
- Great for POC/dev/lab or QA environments

• Cons

- No technical support by Red Hat
- Multiple releases in a single day are possible
- Not recommended by Red Hat to be used in production environments.



Ansible AWX Install (Please note: AWX is deployed from the docker containers)

- Update the system# yum update -y
- Reboot
- Install epel-release repository
 # yum/dnf install epel-release
- Install additional packages
 # dnf install git gcc gcc-c++ ansible nodejs gettext device-mapper-persistent-data
 lvm2 bzip2 python3-pip
- Add docker repository
 # dnf config-manager --add-repo=https://download.docker.com/linux/centos/docker-ce.repo
- Install Docker
 # dnf install docker-ce --nobest -y
 # dnf install docker-ce --nobest --allowerasing
- Check Docker version# docker --version



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- Start docker# systemctl start docker
- Enable docker at boot# systemctl enable docker
- Install docker-compose# pip3 install docker-compose
- Verify the docker-compose version
 # docker-compose --version
- Set python command to use python3
 # alternatives --set python /usr/bin/python3
- Download the latest version of Ansible AWX from the Git Hub repository
 # git clone https://github.com/ansible/awx.git
- Generate a secret key for encryption of the inventory file and copy the output to a text file # openssl rand -base64 30



```
Change directory to and edit inventory file
# awx/installer
OR # awx/tools/docker-compose
# vim inventory
```

Add or modify the following parameters

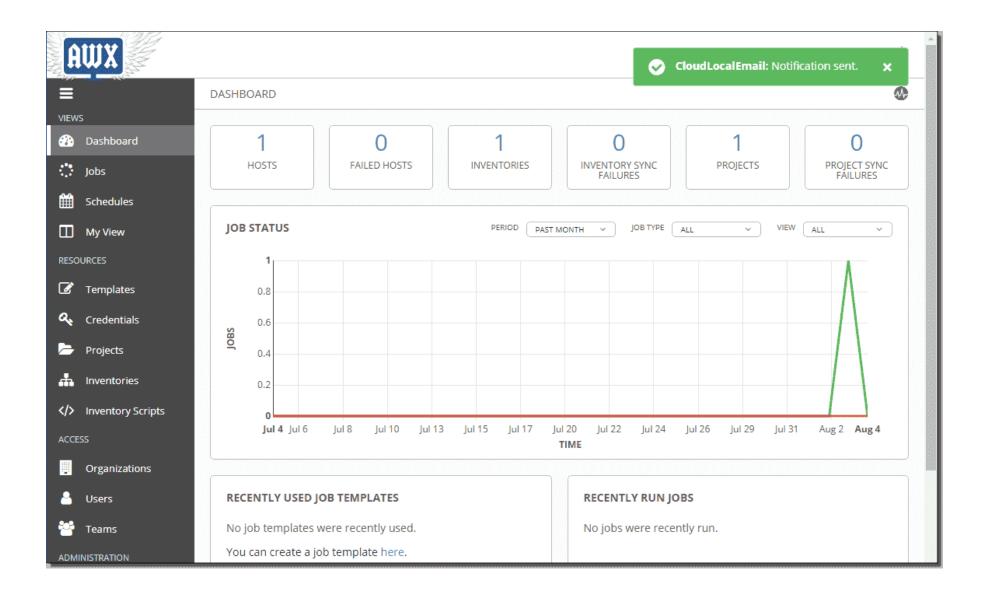
```
[all:vars]
dockerhub base=ansible
awx task hostname=awx
awx web hostname=awxweb
postgres data dir="/var/lib/pgdocker"
host port=80
host port ssl=443
docker compose dir="/root/awx/tools/docker-compose"
pg username=awx
pg password=awxpass
pg database=awx
pg port=5432
pg admin password=password
rabbitmq password=awxpass
rabbitmq erlang cookie=cookiemonster
admin user=admin
admin password=password
create preload data=True
secret key=R+kbcDEUS8DlAftAbfWafVqLZ0lUy+Paqo4fEtgp
awx official=true
awx alternate dns servers="8.8.8.8,8.8.4.4"
project data dir=/var/lib/awx/projects
```



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- Create directory for postgress# mkdir /var/lib/pgdocker
- Install AWX # ansible-playbook -i inventory install.yml
- Open Firefox on your Linux# http://localhost







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• Ansible Tower is a commercial Ansible management product by Red hat which comes with support from Red Hat as well



- Red Hat Ansible Tower is available in two editions that are differentiated by support and features. Pricing is based on the number of nodes (systems, hosts, instances, VMs, containers or devices) that you are managing
 - 1. Standard
 - 2. Premium

https://www.ansible.com/products/pricing

Ansible Tower Pros and Cons:



• Pros

- 24hrs full technical support
- Release cycles
- Fully tested for quality and engineering issues before release
- Install/upgrades are well-documented and supported

• <u>Cons</u>:

- Expensive
- You may need more than 10 nodes for a dev/POC environment
- May be overkill for what you are trying to do.

Ansible Tower Installation



• https://access.redhat.com/products/ansible-tower-red-hat

