

Ansible

Configuration management with





- Web based interface that brings Ansible to large environments, offering several features
 - Workflow design
 - Activity logging
 - Scalability
 - Notifications
 - Scheduling
 - Remote execution
 - REST API and Tower CLI tool

- Ansible Tower is based on AWX. AWX provides the same functionality, without the need to purchase any licenses
- Free evaluation licenses are available from RedHat



- System requirements
 - Control node
 - 4 Gb RAM (8 Gb recommended)
 - 2 vCPUs
 - 20 Gb disk space
 - RHEL\CentOS 7 or 8
 - Managed machines
 - 1 Gb RAM
 - 1 vCPU
 - 10 Gb disk space

- AWX is used as a container in OpenShift, K8S or Docker-Compose
- Of all these methods, Docker-Compose method is the most accessible method
- Aware system configuration requirements (amount of RAM and CPU cores)

- Ansible Tower is providing Ansible Engine
- Ansible engine is not provided with AWX, you should install it by your own
- sudo yum install -y epel-release
- sudo yum install -y ansible bash-completion git device-mapper-persistent-data lvm2 python3 vim yum-utils
- git clone https://github.com/ansible/awx

- sudo yum-config-manager --add-repo https://download.docker.com/linux/centos/docker-ce.repo
- sudo yum install -y docker-ce docker-ce-cli containerd.io
- sudo systemctl enable --now docker
- sudo usermod -aG docker \$(whoami)
- newgrp docker
- sudo ln -sf /usr/bin/python3 /usr/bin/python
- sudo pip3 install docker-compose

- Edit config file
 - ~/awx/installer/inventory define "*password" variables
 - project_data_dir=/var/lib/awx/projects
- sudo setenforce 0
- /etc/sysconfig/selinux
 - SELINUX=disabled
- ansible-playbook -i inventory install.yml

- Organization: a collection of managed devices
- Users: administrative users that can be granted access to specific tasks
- Inventories: managed servers
- Credentials: credentials that are used to log in to a managed machine
- Project: a collection of playbooks obtained from a certain location (some repo)
- Template: the job definition with all of its parameters. Must be launched or scheduled

- Define an organization
- Create an inventory
- Configure credentials
- Set up a project
- Define a job template
- Run the job