Enterprise Automation with AWX

(upstream for Ansible Automation Platform)

Agenda

What are we going to chat about?

Agenda

- Introduction
- What is AWX
- Architecture
- Installation
- Login
- Organizations
- Users
- Credentials (Github)
- Setting up a ping Project
- Ping inventory
- Setting up ssh
- Setting up credentials

- Ping template
- Setting up Apache httpd project
- Web inventory
- Apache template
- Install Apache httpd
- Remove httpd
- MariaDB Project
- MariaDB Inventory
- MariaDB Template
- Install MariaDB
- Remove MariaDB
- Live demo

Introduction

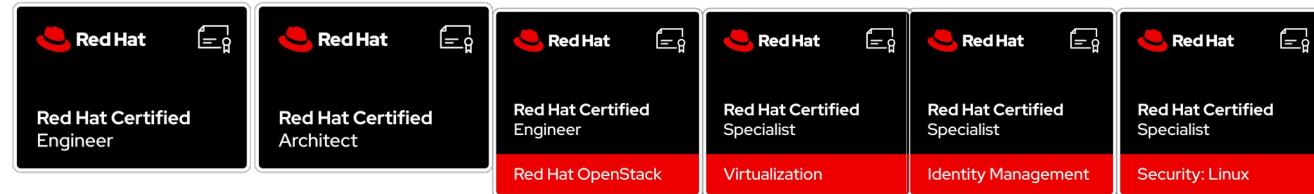Who am I?

I'm Thomas Cameron (he/him)

- Been working in tech since 1993
- Started with Novell

- Worked at Microsoft during the Windows 95 launch

- Worked at Red Hat for ~ 14 years.

- Then went to AWS for 4 years

- Now Red Hat practice lead at Sparksoft Corporation

I'm Thomas Cameron (he/him)

- Community contact:
  - https://camerontech.com
  - thomas.cameron@camerontech.com
  - https://github.com/tdcam
- Professional contact:
  - https://sparksoftcorp.io
  - thomas.cameron@sparksoftcorp.com
  - https://linkedin.com/in/thomascameron

Thomas woke up and chose

… violence

How do you pronounce these?

- systemctl:
  - Is it "sis tem cuttle"
  - Is it "sis tem see tee ell"

How do you pronounce these?

- kubectl:
  - Is it "kyoob cuttle"
  - Is it "kyoob see tee ell"

How do you pronounce these?

- k8s:
  - Is it "kay ayt ess"
  - Is it "kayts"

How do you pronounce these?

- k3s:
  - Is it "kay three ess"
  - Is it "kay threes"

Which is better?

- vi/vim

- Emacs

😱

What is AWX

How does it relate to Ansible Automation Platform?

About AWX

- The AWX project—AWX for short—is an open source community project, sponsored by Red Hat, that enables users to better control their community Ansible project use in IT environments. AWX is the upstream project from which the automation controller component is ultimately derived. [1]

[1] https://www.ansible.com/faq

- AWX is the upstream project from which Red Hat builds their commercial product, Ansible Automation Platform (AAP).

- The UI you see is almost identical to AAP.

- The installation process is somewhat different, but not terribly

Architecture

How all this works together

Architecture

- Kubernetes based

- Containers for AWX management

- Containers for job management

- Containers for PostgreSQL

- Containers for the UI
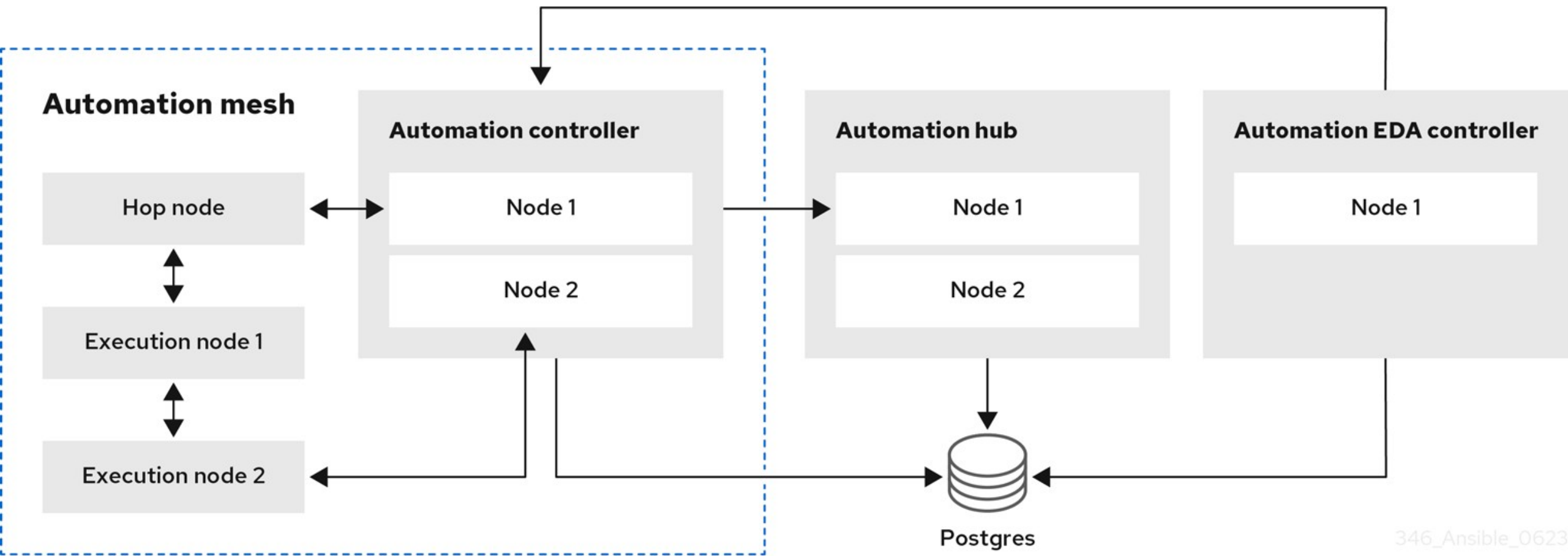
https://access.redhat.com/documentation/en-us/red_hat_ansible_automation_platform/2.4/html/
red_hat_ansible_automation_platform_planning_guide/aap_architecture

Installation

For single node

Installation

- I fought with AWX for WEEKS.

- Several resources indicate that it can be run on Fedora, RHEL/CentOS 8, and RHEL/CentOS 9.

- I was unable to get it to run on anything but RHEL8/CentOS Stream 8.

I used kurokobo's k3s method

- I tried the AWX Operator and minikube kept hanging

- I tried the docker-compose developer's build and the container builds failed repeatedly

- Was finally told about https://github.com/kurokobo/awx-on-k3s and it ONLY worked on RHEL/Centos Stream 8 (not F39 or RHEL/CentOS Stream 9.

Base Install

- I used a minimal installation of CentOS Stream

```
[sysadmin@host209 ~]$ sudo dnf grouplist
Extra Packages for Enterprise Linux 8 - Next -  345 kB/s | 368 kB     00:01
Last metadata expiration check: 0:00:01 ago on Fri 15 Mar 2024 07:02:08 PM UTC.
Available Environment Groups:
    Server with GUI
    Server
    Minimal Install
    Workstation
    KDE Plasma Workspaces
    Virtualization Host
    Custom Operating System
Available Groups:
    Container Management
    .NET Core Development
    RPM Development Tools
    Development Tools
    Graphical Administration Tools
    Headless Management
    Legacy UNIX Compatibility
    Network Servers
    Scientific Support
    Security Tools
    Smart Card Support
    System Tools
```

```
Available Environment Groups:
    Server with GUI
    Server
    Minimal Install
    Workstation
    KDE Plasma Workspaces
    Virtualization Host
    Custom Operating System
Available Groups:
    Container Management
    .NET Core Development
    RPM Development Tools
    Development Tools
    Graphical Administration Tools
    Headless Management
    Legacy UNIX Compatibility
    Network Servers
    Scientific Support
    Security Tools
    Smart Card Support
    System Tools
    Fedora Packager
    Xfce
[sysadmin@host209 ~]$
```

```
Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 ~]$ rpm -qa | wc -l
576
[sysadmin@host209 ~]$ 
```

The git repo

- https://github.com/kurokobo/awx-on-k3s

kurokobo/awx-on-k3s: An e...

github.com/kurokobo/awx-on-k3s

Personal   Sparksoft

kurokobo / **awx-on-k3s**

Type / to search

‹› Code   ⊙ Issues 5   ⋈ Pull requests 1   ▷ Actions   Projects   ⊙ Security   Insights

awx-on-k3s Public

♡ Sponsor   ⊙ Watch 25 ▾   ⑂ Fork 120 ▾   ☆ Star 449 ▾

⑂ main ▾   ⑂ **3** Branches   ⬡ **54** Tags   Go to file   t   Add file ▾   **‹› Code** ▾

About

An example implementation of AWX on single node K3s using AWX Operator, with easy-to-use simplified configuration with ownership of data and passwords.

kurokobo Merge pull request #313 from neofright/readme-edits ⋯	50a9fc6 · 2 days ago	⟳ **335 Commits**
.github	Merge pull request #169 from kurokobo/issues	2 years ago
acme	feat: bump operator version to 2.12.2	2 weeks ago
backup	Update backup/ansible/README.md	2 days ago
base	feat: bump operator version to 2.11.0	last month
builder	Update builder/README.md	2 days ago
containergroup	docs: add the most popular example for container group	3 weeks ago
galaxy	docs: remove outdated description	2 weeks ago
git	feat: bump operator version to 2.8.0	4 months ago
operator	feat: bump operator version to 2.12.2	2 weeks ago
registry	feat: bump operator version to 1.1.4	last year

📖 Readme

⚖ MIT license

∿ Activity

☆ 449 stars

⊙ 25 watching

⑂ 120 forks

Report repository

Releases

⬡ **54** tags

🔗 AWX on Single Node K3s

An example implementation of AWX on single node K3s using AWX Operator, with easy-to-use simplified configuration with ownership of data and passwords.

- Accessible over HTTPS from remote host
- All data will be stored under `/data`
- Fixed (configurable) passwords for AWX and PostgreSQL
- Fixed (configurable) versions of AWX

If you want to view the guide for the specific version of AWX Operator, switch the page to the desired tag instead of the `main` branch.

Table of Contents

- Environment
- References
- Requirements
- Deployment Instruction
  - Prepare CentOS Stream 8 host
  - Install K3s
  - Install AWX Operator
  - Prepare required files to deploy AWX
  - Deploy AWX

Environment

- Tested on:
  - CentOS Stream 8 (Minimal)
  - K3s v1.28.6+k3s2
- Products that will be deployed:
  - AWX Operator 2.12.2
  - AWX 23.9.0
  - PostgreSQL 13

References

- K3s - Lightweight Kubernetes
- INSTALL.md on ansible/awx @23.9.0
- README.md on ansible/awx-operator @2.12.2

Requirements

- **Computing resources**
  - **2 CPUs with x86-64-v2 support**.
  - **4 GiB RAM minimum**
  - It's recommended to add more CPUs and RAM (like 4 CPUs and 8 GiB RAM or more) to avoid performance issue and job scheduling issue.
  - The files in this repository are configured to ignore resource requirements which specified by AWX

Requirements

- **Computing resources**
  - **2 CPUs with x86-64-v2 support**.
  - **4 GiB RAM minimum**
  - It's recommended to add more CPUs and RAM (like 4 CPUs and 8 GiB RAM or more) to avoid performance issue and job scheduling issue.
 - The files in this repository are configured to ignore resource requirements which specified by AWX Operator by default.
- **Storage resources**
  - At least **10 GiB for** `/var/lib/rancher` and **10 GiB for** `/data` are safe for fresh install.
  - **Both will be grown during lifetime** and **actual consumption highly depends on your environment and your use case**, so you should to pay attention to the consumption and add more capacity if required.
  - `/var/lib/rancher` will be created and consumed by K3s and related data like container images and overlayfs.
  - `/data` will be created in this guide and used to store AWX-related databases and files.

Deployment Instruction

Prepare CentOS Stream 8 host

Disable firewalld and nm-cloud-setup if enabled. This is [recommended by K3s](https://...).

```
Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)
```
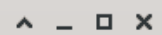
File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 ~]$ cat /etc/system-release
CentOS Stream release 8
[sysadmin@host209 ~]$ 
```

```
[sysadmin@host209 ~]$ free
              total        used        free      shared  buff/cache   available
Mem:       24393856      318716    23675136        8852      400004    23736496
Swap:             0           0           0
[sysadmin@host209 ~]$
```

```
[sysadmin@host209 ~]$ grep "^processor" /proc/cpuinfo
processor       : 0
processor       : 1
processor       : 2
processor       : 3
processor       : 4
processor       : 5
processor       : 6
processor       : 7
processor       : 8
processor       : 9
processor       : 10
processor       : 11
processor       : 12
processor       : 13
processor       : 14
processor       : 15
[sysadmin@host209 ~]$
```

```
[root@host209 ~]# df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs         12G     0   12G   0% /dev
tmpfs            12G     0   12G   0% /dev/shm
tmpfs            12G  8.7M   12G   1% /run
tmpfs            12G     0   12G   0% /sys/fs/cgroup
/dev/vda1       7.9G  2.9G  5.0G  37% /
tmpfs           2.4G     0  2.4G   0% /run/user/1000
/dev/vdb1        20G  175M   20G   1% /var/lib/rancher
/dev/vdc1        20G  175M   20G   1% /data
[root@host209 ~]# 
```

Deployment Instruction

Prepare CentOS Stream 8 host

Disable firewalld and nm-cloud-setup if enabled. This is [recommended by K3s](#).

```
# Disable firewalld
sudo systemctl disable firewalld --now

# Disable nm-cloud-setup if exists and enabled
sudo systemctl disable nm-cloud-setup.service nm-cloud-setup.timer
sudo reboot
```

Install the required packages to deploy AWX Operator and AWX.

```
sudo dnf install -y git curl
```

Install K3s

Install a specific version of K3s with `--write-kubeconfig-mode 644` to make the config file (`/etc/rancher/k3s/k3s.yaml`) readable by non-root users.

```
curl -sfL https://get.k3s.io | INSTALL_K3S_VERSION=v1.28.6+k3s2 sh -s - --write-kubeconfig-mo
```

Install AWX Operator

```
[root@host209 ~]# # I hate this advice!
[root@host209 ~]# # In the real world, I'd figure out what ports
[root@host209 ~]# # need to be open and create firewall rules!
[root@host209 ~]# 
```

```
[root@host209 ~]# systemctl disable firewalld --now
Removed /etc/systemd/system/multi-user.target.wants/firewalld.service.
Removed /etc/systemd/system/dbus-org.fedoraproject.FirewallD1.service.
[root@host209 ~]#
```

```
[root@host209 ~]# sudo systemctl disable nm-cloud-setup.service nm-cloud-setup.t
imer
Failed to disable unit: Unit file nm-cloud-setup.service does not exist.
[root@host209 ~]#
```

```
Terminal - root@host209:~ (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[root@host209 ~]# sudo dnf install -y git curl
Last metadata expiration check: 0:00:58 ago on Fri 15 Mar 2024 07:17:51 PM UTC.
Package curl-7.61.1-34.el8.x86_64 is already installed.
Dependencies resolved.
================================================================================
 Package              Arch      Version                  Repo          Size
================================================================================

Installing:
 git                  x86_64    2.43.0-1.el8             appstream     92 k
Installing dependencies:
 git-core             x86_64    2.43.0-1.el8             appstream     11 M
 git-core-doc         noarch    2.43.0-1.el8             appstream    3.3 M
 perl-Carp            noarch    1.42-396.el8             baseos        30 k
 perl-Data-Dumper     x86_64    2.167-399.el8            baseos        58 k
 perl-Digest          noarch    1.17-395.el8             appstream     27 k
 perl-Digest-MD5      x86_64    2.55-396.el8             appstream     37 k
 perl-Encode          x86_64    4:2.97-3.el8             baseos       1.5 M
 perl-Errno           x86_64    1.28-422.el8             baseos        76 k
 perl-Error           noarch    1:0.17025-2.el8          appstream     46 k
 perl-Exporter        noarch    5.72-396.el8             baseos        34 k
 perl-File-Path       noarch    2.15-2.el8               baseos        38 k
 perl-File-Temp       noarch    0.230.600-1.el8          baseos        63 k
 perl-Getopt-Long     noarch    1:2.50-4.el8             baseos        63 k
 perl-Git             noarch    2.43.0-1.el8             appstream     79 k
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 ~]$ sudo init 6
```

Installing k3s

- I totally understand why it installs this way, but…
  - Anyone else HATE mixing packaged software with downloaded zip files, shell scripts, etc?
  - Glaring at you, snap, flatpak, etc. 😡 😡 😡

📖 **README**   ⚖️ **MIT license**

Install K3s

Install a specific version of K3s with `--write-kubeconfig-mode 644` to make the config file
(`/etc/rancher/k3s/k3s.yaml`) readable by non-root users.

```
curl -sfL https://get.k3s.io | INSTALL_K3S_VERSION=v1.28.6+k3s2 sh -s - --write-kubeconfig-mo
```

Install AWX Operator

> ⚠️ **Warning**
>
> If you are planning that creating backup of your AWX instance using AWX Operator by referring to the
> backup guide, AWX Operator 2.12.2 is not recommended due to a known issue for backup. Use an older
> version of AWX Operator like 2.12.1 instead.

Clone this repository and change directory.

If you want to use files suitable for a specific version of AWX Operator, refer to tags in this repository and
specify the desired tag in `git checkout` . Especially for `0.13.0` or earlier versions of AWX Operator, refer to
📝Tips: Deploy older version of AWX Operator.

```
cd ~
git clone https://github.com/kurokobo/awx-on-k3s.git
cd awx-on-k3s
git checkout 2.12.2
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 ~]$ curl -sfL https://get.k3s.io | INSTALL_K3S_VERSION=v1.28.6
+k3s2 sh -s - --write-kubeconfig-mode 644
```

File   Edit   View   Terminal   Tabs   Help

```
  Installing        : k3s-selinux-1.5-1.el8.noarch                        2/2
  Running scriptlet: k3s-selinux-1.5-1.el8.noarch                        2/2
  Running scriptlet: container-selinux-2:2.229.0-2.module_el8+847+7863d4e  2/2
  Running scriptlet: k3s-selinux-1.5-1.el8.noarch                        2/2
  Verifying         : container-selinux-2:2.229.0-2.module_el8+847+7863d4e  1/2
  Verifying         : k3s-selinux-1.5-1.el8.noarch                        2/2


Installed:
  container-selinux-2:2.229.0-2.module_el8+847+7863d4e6.noarch
  k3s-selinux-1.5-1.el8.noarch


Complete!
[INFO]  Creating /usr/local/bin/kubectl symlink to k3s
[INFO]  Creating /usr/local/bin/crictl symlink to k3s
[INFO]  Creating /usr/local/bin/ctr symlink to k3s
[INFO]  Creating killall script /usr/local/bin/k3s-killall.sh
[INFO]  Creating uninstall script /usr/local/bin/k3s-uninstall.sh
[INFO]  env: Creating environment file /etc/systemd/system/k3s.service.env
[INFO]  systemd: Creating service file /etc/systemd/system/k3s.service
[INFO]  systemd: Enabling k3s unit
Created symlink /etc/systemd/system/multi-user.target.wants/k3s.service → /etc/s
ystemd/system/k3s.service.
[INFO]  systemd: Starting k3s
[sysadmin@host209 ~]$
```

```
Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 ~]$ kubectl get nodes
NAME                    STATUS    ROLES                 AGE    VERSION
host209.virtual.lan     Ready     control-plane,master  38s    v1.28.6+k3s2
[sysadmin@host209 ~]$ 
```

```
Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)

File  Edit  View  Terminal  Tabs  Help

[sysadmin@host209 ~]$ kubectl get pods -A
NAMESPACE      NAME                                        READY   STATUS
     RESTARTS    AGE
kube-system    metrics-server-67c658944b-2sdqw             0/1     ContainerCreatin
g    0          42s
kube-system    helm-install-traefik-crd-8fdz5              0/1     ContainerCreatin
g    0          42s
kube-system    helm-install-traefik-b2ndr                  0/1     ContainerCreatin
g    0          42s
kube-system    coredns-6799fbcd5-zdf6z                     0/1     ContainerCreatin
g    0          42s
kube-system    local-path-provisioner-84db5d44d9-njsgm     1/1     Running
     0          42s
[sysadmin@host209 ~]$
```

File   Edit   View   Terminal   Tabs   Help
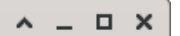
```
[sysadmin@host209 ~]$ watch -n 10 kubectl get pods -A
```

File   Edit   View   Terminal   Tabs   Help

```
Every 10.0s: kubectl get pods -A    host209.virtual.lan: Fri Mar 15 19:31:23 2024


NAMESPACE        NAME                                    READY   STATUS       REST
ARTS    AGE
kube-system      local-path-provisioner-84db5d44d9-njsgm 1/1     Running      0
        3m27s
kube-system      coredns-6799fbcd5-zdf6z                 1/1     Running      0
        3m27s
kube-system      metrics-server-67c658944b-2sdqw         1/1     Running      0
        3m27s
kube-system      helm-install-traefik-crd-8fdz5          0/1     Completed    0
        3m27s
kube-system      helm-install-traefik-b2ndr              0/1     Completed    1
        3m27s
kube-system      svclb-traefik-a7122c19-j28lq            2/2     Running      0
        112s
kube-system      traefik-f4564c4f4-fx8sn                 1/1     Running      0
        112s
```

Install AWX Operator

> ⚠️ **Warning**
>
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```
cd ~
git clone https://github.com/kurokobo/awx-on-k3s.git
cd awx-on-k3s
git checkout 2.12.2
```

Then invoke `kubectl apply -k operator` to deploy AWX Operator.

```
kubectl apply -k operator
```

The AWX Operator will be deployed to the namespace `awx`.

```
$ kubectl -n awx get all
```

```
Terminal - sysadmin@host209:~/Downloads/git (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 ~]$ mkdir -p Downloads/git
[sysadmin@host209 ~]$ cd Downloads/git
[sysadmin@host209 git]$ git clone https://github.com/kurokobo/awx-on-k3s.git
Cloning into 'awx-on-k3s'...
remote: Enumerating objects: 1964, done.
remote: Counting objects: 100% (804/804), done.
remote: Compressing objects: 100% (332/332), done.
remote: Total 1964 (delta 483), reused 693 (delta 435), pack-reused 1160
Receiving objects: 100% (1964/1964), 495.47 KiB | 1.21 MiB/s, done.
Resolving deltas: 100% (1223/1223), done.
[sysadmin@host209 git]$ 
```

```
[sysadmin@host209 git]$ cd awx-on-k3s/
[sysadmin@host209 awx-on-k3s]$ git checkout 2.12.2
Note: switching to '2.12.2'.

You are in 'detached HEAD' state. You can look around, make experimental
changes and commit them, and you can discard any commits you make in this
state without impacting any branches by switching back to a branch.

If you want to create a new branch to retain commits you create, you may
do so (now or later) by using -c with the switch command. Example:

  git switch -c <new-branch-name>

Or undo this operation with:

  git switch -

Turn off this advice by setting config variable advice.detachedHead to false

HEAD is now at 9c5df88 Merge pull request #312 from kurokobo/docs_misc
[sysadmin@host209 awx-on-k3s]$ 
```

Then invoke `kubectl apply -k operator` to deploy AWX Operator.

```
kubectl apply -k operator
```

The AWX Operator will be deployed to the namespace `awx` .

```
$ kubectl -n awx get all
NAME                                                 READY   STATUS    RESTARTS   AGE
pod/awx-operator-controller-manager-68d787cfbd-kjfg7 2/2     Running   0          16s

NAME                                                 TYPE        CLUSTER-IP      EXTERNAL
service/awx-operator-controller-manager-metrics-service ClusterIP 10.43.150.245  <none>

NAME                                                 READY   UP-TO-DATE AVAILABLE  AGE
deployment.apps/awx-operator-controller-manager      1/1     1          1          16s

NAME                                                 DESIRED CURRENT  READY  AGE
replicaset.apps/awx-operator-controller-manager-68d787cfbd 1       1        1      16s
```

Prepare required files to deploy AWX

Generate a Self-Signed certificate. Note that an IP address can't be specified. If you want to use a certificate from a public ACME CA such as Let's Encrypt or ZeroSSL instead of a Self-Signed certificate, follow the guide on 📁 **Use SSL Certificate from Public ACME CA** first and come back to this step when done.

```
AWX_HOST="awx.example.com"
```

```
[sysadmin@host209 awx-on-k3s]$ kubectl apply -k operator
namespace/awx created
customresourcedefinition.apiextensions.k8s.io/awxbackups.awx.ansible.com created
customresourcedefinition.apiextensions.k8s.io/awxmeshingresses.awx.ansible.com c
reated
customresourcedefinition.apiextensions.k8s.io/awxrestores.awx.ansible.com create
d
customresourcedefinition.apiextensions.k8s.io/awxs.awx.ansible.com created
serviceaccount/awx-operator-controller-manager created
role.rbac.authorization.k8s.io/awx-operator-awx-manager-role created
role.rbac.authorization.k8s.io/awx-operator-leader-election-role created
clusterrole.rbac.authorization.k8s.io/awx-operator-metrics-reader created
clusterrole.rbac.authorization.k8s.io/awx-operator-proxy-role created
rolebinding.rbac.authorization.k8s.io/awx-operator-awx-manager-rolebinding creat
ed
rolebinding.rbac.authorization.k8s.io/awx-operator-leader-election-rolebinding c
reated
clusterrolebinding.rbac.authorization.k8s.io/awx-operator-proxy-rolebinding crea
ted
configmap/awx-operator-awx-manager-config created
secret/redhat-operators-pull-secret created
service/awx-operator-controller-manager-metrics-service created
deployment.apps/awx-operator-controller-manager created
[sysadmin@host209 awx-on-k3s]$
```

```
[sysadmin@host209 awx-on-k3s]$ kubectl get nodes
NAME                  STATUS   ROLES                 AGE   VERSION
host209.virtual.lan   Ready    control-plane,master  12m   v1.28.6+k3s2
[sysadmin@host209 awx-on-k3s]$ 
```
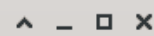
```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ kubectl get pods -A
NAMESPACE       NAME                                              READY    STATUS
                RESTARTS    AGE
kube-system     local-path-provisioner-84db5d44d9-njsgm           1/1      Running
                0           12m
kube-system     coredns-6799fbcd5-zdf6z                           1/1      Running
                0           12m
kube-system     metrics-server-67c658944b-2sdqw                   1/1      Running
                0           12m
kube-system     helm-install-traefik-crd-8fdz5                    0/1      Complet
ed              0           12m
kube-system     helm-install-traefik-b2ndr                        0/1      Complet
ed              1           12m
kube-system     svclb-traefik-a7122c19-j28lq                      2/2      Running
                0           10m
kube-system     traefik-f4564c4f4-fx8sn                           1/1      Running
                0           10m
awx             awx-operator-controller-manager-589cdd869b-7ttgf  0/2      Contain
erCreating      0           31s
[sysadmin@host209 awx-on-k3s]$
```

```
[sysadmin@host209 awx-on-k3s]$ watch -n 5 kubectl get pods -A
```

```
Every 5.0s: kubectl get pods -A      host209.virtual.lan: Fri Mar 15 19:42:52 2024


NAMESPACE       NAME                                                READY   STATUS
      RESTARTS    AGE
kube-system     local-path-provisioner-84db5d44d9-njsgm             1/1     Running
      0           14m
kube-system     coredns-6799fbcd5-zdf6z                             1/1     Running
      0           14m
kube-system     metrics-server-67c658944b-2sdqw                     1/1     Running
      0           14m
kube-system     helm-install-traefik-crd-8fdz5                      0/1     Complet
ed    0           14m
kube-system     helm-install-traefik-b2ndr                          0/1     Complet
ed    1           14m
kube-system     svclb-traefik-a7122c19-j28lq                        2/2     Running
      0           13m
kube-system     traefik-f4564c4f4-fx8sn                             1/1     Running
      0           13m
awx             awx-operator-controller-manager-589cdd869b-7ttgf    2/2     Running
      0           3m24s
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ kubectl -n awx get all
NAME                                                  READY    STATUS     RESTARTS    AGE
pod/awx-operator-controller-manager-589cdd869b-7ttgf  2/2      Running    0           8m24s

NAME                                                  TYPE         CLUSTER-IP      EXTERNAL-IP   PORT(S)      AGE
service/awx-operator-controller-manager-metrics-service  ClusterIP    10.43.79.251    <none>        8443/TCP     8m24s

NAME                                                  READY    UP-TO-DATE   AVAILABLE   AGE
deployment.apps/awx-operator-controller-manager       1/1      1            1           8m24s

NAME                                                  DESIRED   CURRENT   READY   AGE
replicaset.apps/awx-operator-controller-manager-589cdd869b   1         1         1       8m24s
[sysadmin@host209 awx-on-k3s]$ 
```

README   MIT license

Prepare required files to deploy AWX

Generate a Self-Signed certificate. Note that an IP address can't be specified. If you want to use a certificate from a public ACME CA such as Let's Encrypt or ZeroSSL instead of a Self-Signed certificate, follow the guide on 📁 **Use SSL Certificate from Public ACME CA** first and come back to this step when done.

```
AWX_HOST="awx.example.com"
openssl req -x509 -nodes -days 3650 -newkey rsa:2048 -out ./base/tls.crt -keyout ./base/tls.k
```

Modify `hostname` in `base/awx.yaml` .

```
...
spec:
  ...
  ingress_type: ingress
  ingress_hosts:
    - hostname: awx.example.com     👍👍👍
      tls_secret: awx-secret-tls
...
```

Modify the two `password` entries in `base/kustomization.yaml` . Note that the `password` under `awx-postgres-configuration` should not contain single or double quotes (`'` , `"`) or backslashes (`\`) to avoid any issues during deployment, backup or restoration.

```
...
  - name: awx-postgres-configuration
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ hostname
host209.virtual.lan
[sysadmin@host209 awx-on-k3s]$ hostname -s
host209
[sysadmin@host209 awx-on-k3s]$ cat /etc/hostname
host209.virtual.lan
[sysadmin@host209 awx-on-k3s]$ ping -c 1 host209.virtual.lan
PING host209.virtual.lan (192.168.122.209) 56(84) bytes of data.
64 bytes from host209 (192.168.122.209): icmp_seq=1 ttl=64 time=0.082 ms

--- host209.virtual.lan ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.082/0.082/0.082/0.000 ms
[sysadmin@host209 awx-on-k3s]$ ping -c 1 host209
PING host209.virtual.lan (192.168.122.209) 56(84) bytes of data.
64 bytes from host209 (192.168.122.209): icmp_seq=1 ttl=64 time=0.065 ms

--- host209.virtual.lan ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.065/0.065/0.065/0.000 ms
[sysadmin@host209 awx-on-k3s]$
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ AWX_HOST="$(hostname)"
[sysadmin@host209 awx-on-k3s]$ echo $AWX_HOST
host209.virtual.lan
[sysadmin@host209 awx-on-k3s]$ 
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ openssl req -x509 -nodes -days 3650 -newkey rsa:2
048 -out ./base/tls.crt -keyout ./base/tls.key -subj "/CN=${AWX_HOST}/O=${AWX_HO
ST}" -addext "subjectAltName = DNS:${AWX_HOST}"
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ openssl req -x509 -nodes -days 3650 -newkey rsa:2
048 -out ./base/tls.crt -keyout ./base/tls.key -subj "/CN=${AWX_HOST}/O=${AWX_HO
ST}" -addext "subjectAltName = DNS:${AWX_HOST}"
Generating a RSA private key
......................................................................++++
...............................++++
writing new private key to './base/tls.key'
-----
[sysadmin@host209 awx-on-k3s]$ 
```
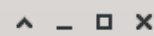
File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ cat base/tls.key
-----BEGIN PRIVATE KEY-----
```
```
MIIEvAIBADANBgkqhkiG9w0BAQEFAASCBKYwggSiAgEAAoIBAQDEJ8tGvf8AR3A2
fhnAaV1pHknS6ooGXwr5BqaKAojd8ro1thv+tMvMLqKnIWED/RQ8hIfx8fxCtGEb
Aiqd7LijPZmt1fHahAwQwv4lVuHvJS6belltwXV5giWCSAXBX3W5TROqgwL784Dl
bLMCUWDupTrHrpw8XKXYNrU7GTUegqePUcx2UrXAgsOWKgTusbBxHLkyFFfYDtPg
o0jAk91N6ULqfDin7BbDcYr1XaWe9KCsAoJo9JVU3G97cJE0z6onggYs/klwgLq9
8IlOgCnOMTF+QNj6S11cjkVF4f2kjfxvJrLjaDaaLccN/RcS2hxw9WIPQg0wRwGy
2Es9OfQ3AgMBAAECggEAVzbmT97cSXB5+RCaPI3chYd9BXVYxzps84o8c/JqjlyE
5KrCyb3zOyalFTBnJVHaNIoss6uHINV4s3yEHFGLSrFx6fPNI/5AKxe3zjxSGnVq
wqBksMMqi0sNiF6jiHX8LtaRXuf/ZKzA68En2mj6c0Et4GjHeKMs7fRtIgi0MIrZ
Uvk9Yy9d/Hp7rUS4NBmLumrXc5Ou1B95Gcvwaaa4xX32NIIFGNZbPUBK4Ld9FSNO
XUQ+q/Ip3uQt1gkMBNVjhyJG7GNDTjUPKnj1c0IhqHcdJK8uLgo0z4ebUlgmvzUD
gWaVCjaQiY5ljOAT7bD92BznBFwhjdyjB4w5JfaM2QKBgQDwvTVDcRMBREIyjCMv
Jw1lR0DkjlscmYmt7lKc0oUGuqXuOb5givlrtsPhqm6v72AQbh4fah/mf2D5p3yt
abKEee+BMsDkDaYH5fHi/85fvkmh53GqWwu9YUUQ0IivV7EOca3h2ofvRMz1BD5H
+1N0OVDRIRQKUzEQVHJnMKRJuwKBgQDQlxFvnjKGeig6u5qjRhNlcPIe2wbmd1DI
6i3ulsOoOt/qwoD7XJX/j3sMCpgbtnJ4rJDzmkqPLeqbk8ab5yUNCfiNr9WAbrhj
Vtsc8c8vrbGWHBUHISEvP6jfC+JDCLvWWEKh9IGMCy048KGFGAcI2Q+E9lcTRCM+
uSZW36rJtQKBgAH/kBGfPqkkB+ijgSdDC7lrff5nsBnsrFflQopKtQ/5PKddk1b5
0Fg0jCuzXnfXZNS+FUHtf5ZKOGPaIA7QccrnuDU6Vp+N/XLTVc6skOn6imHtqePg
HZjU1d3t3TSXZcDY8LiPN9GkoI7oGhw+2dJ9J06VF7V+O0oHaWux26tBAoGARHcB
YxiSzu7zm2uOcz8CCM7MufH8TtMk8f1jfCeCKwrACmczPM4D8fEfWzFzAc2dvxwt
K7gd9ucEVXJowy1YTPJT4fWv50rwPLL6koKQFb82ReYLxN5L7R1BCYz2BDiupskr
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ vi base/awx.yaml
```

```yaml
---
apiVersion: awx.ansible.com/v1beta1
kind: AWX
metadata:
  name: awx
spec:
  # These parameters are designed for use with:
  # - AWX Operator: 2.0.0
  #   https://github.com/ansible/awx-operator/blob/2.0.0/README.md
  # - AWX: 22.0.0
  #   https://github.com/ansible/awx/blob/22.0.0/INSTALL.md


  admin_user: admin
  admin_password_secret: awx-admin-password


  ingress_type: ingress
  ingress_hosts:
    - hostname: awx.example.com
      tls_secret: awx-secret-tls


  postgres_configuration_secret: awx-postgres-configuration


  postgres_storage_class: awx-postgres-volume
```

                                                    18,17   Top

```yaml
---
apiVersion: awx.ansible.com/v1beta1
kind: AWX
metadata:
  name: awx
spec:
  # These parameters are designed for use with:
  # - AWX Operator: 2.0.0
  #   https://github.com/ansible/awx-operator/blob/2.0.0/README.md
  # - AWX: 22.0.0
  #   https://github.com/ansible/awx/blob/22.0.0/INSTALL.md


  admin_user: admin
  admin_password_secret: awx-admin-password


  ingress_type: ingress
  ingress_hosts:
    - hostname: host209.virtual.lan
      tls_secret: awx-secret-tls


  postgres_configuration_secret: awx-postgres-configuration


  postgres_storage_class: awx-postgres-volume
```
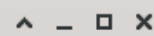-- INSERT --   18,36   Top

Modify the two `password` entries in `base/kustomization.yaml` . Note that the `password` under `awx-postgres-configuration` should not contain single or double quotes (`'` , `"`) or backslashes (`\`) to avoid any issues during deployment, backup or restoration.

```
...
  - name: awx-postgres-configuration
    type: Opaque
    literals:
      - host=awx-postgres-13
      - port=5432
      - database=awx
      - username=awx
      - password=Ansible123!     👍👍👍
      - type=managed

  - name: awx-admin-password
    type: Opaque
    literals:
      - password=Ansible123!     👍👍👍
...
```

Prepare directories for Persistent Volumes defined in `base/pv.yaml` . These directories will be used to store your databases and project files. Note that the size of the PVs and PVCs are specified in some of the files in this repository, but since their backends are `hostPath` , its value is just like a label and there is no actual capacity limitation.

```
sudo mkdir -p /data/postgres-13
sudo mkdir -p /data/projects
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
```

```
[sysadmin@host209 awx-on-k3s]$ vi base/kustomization.yaml
```
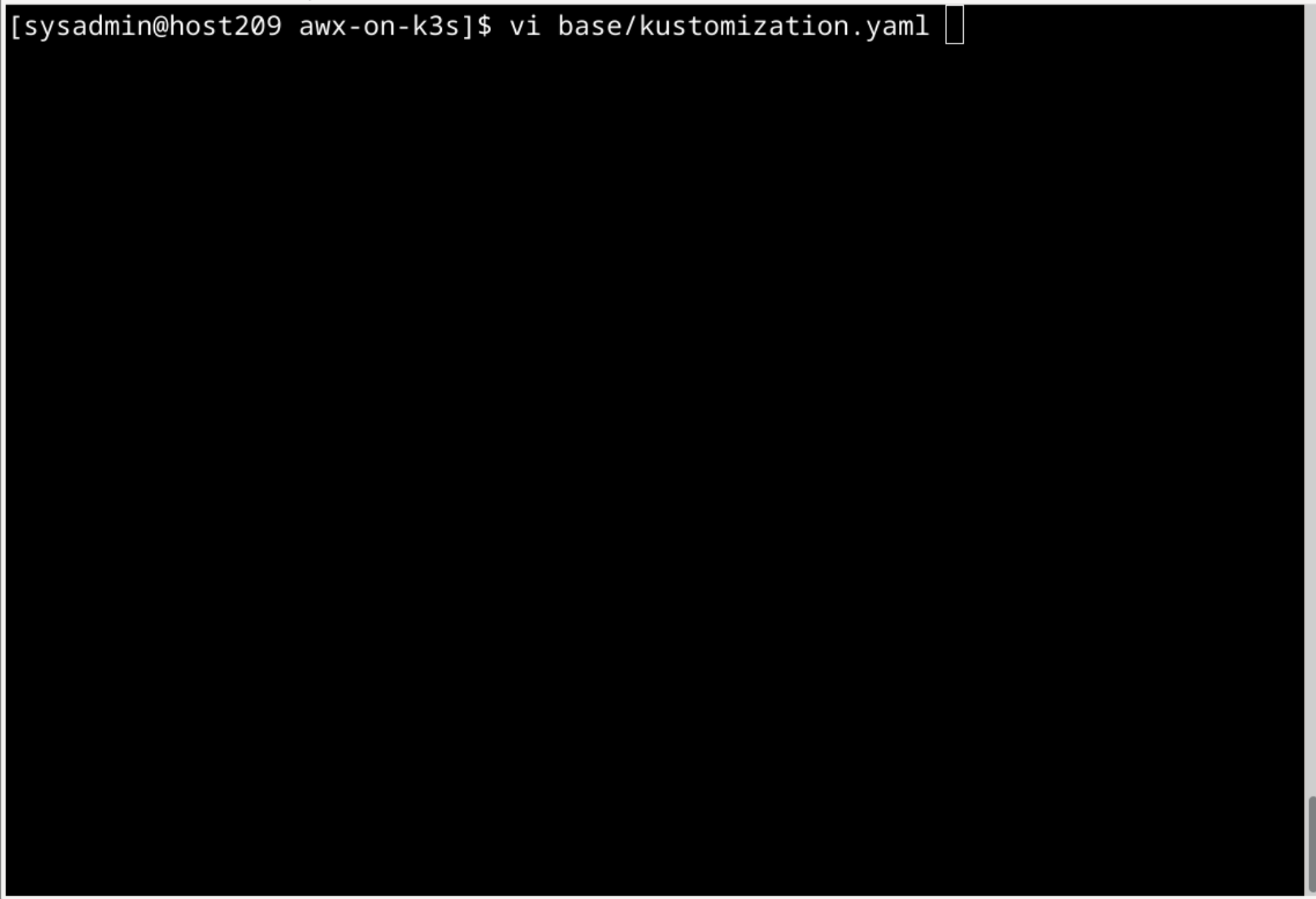
```
  - name: awx-secret-tls
    type: kubernetes.io/tls
    files:
      - tls.crt
      - tls.key


  - name: awx-postgres-configuration
    type: Opaque
    literals:
      - host=awx-postgres-13
      - port=5432
      - database=awx
      - username=awx
      - password=Ansible123!
      - type=managed


  - name: awx-admin-password
    type: Opaque
    literals:
      - password=Ansible123!


 # If you want to specify SECRET_KEY for your AWX manually, uncomment following
lines and change the value.
                                                          23,18                    45%
```

```
          - tls.crt
          - tls.key


  - name: awx-postgres-configuration
    type: Opaque
    literals:
        - host=awx-postgres-13
        - port=5432
        - database=awx
        - username=awx
        - password=20Sparksoft24!
        - type=managed


  - name: awx-admin-password
    type: Opaque
    literals:
        - password=20Sparksoft24!

 # If you want to specify SECRET_KEY for your AWX manually, uncomment following
 lines and change the value.
 # Refer AAC documentation for detail about SECRET_KEY.
 # https://docs.ansible.com/automation-controller/latest/html/administration/se
cret_handling.html
-- INSERT --                                                    29,32                    57%
```

Prepare directories for Persistent Volumes defined in `base/pv.yaml`. These directories will be used to store your databases and project files. Note that the size of the PVs and PVCs are specified in some of the files in this repository, but since their backends are `hostPath`, its value is just like a label and there is no actual capacity limitation.

```
sudo mkdir -p /data/postgres-13
sudo mkdir -p /data/projects
sudo chmod 755 /data/postgres-13
sudo chown 1000:0 /data/projects
```

Deploy AWX

Deploy AWX, this takes few minutes to complete.

```
kubectl apply -k base
```

To monitor the progress of the deployment, check the logs of `deployments/awx-operator-controller-manager`:

```
kubectl -n awx logs -f deployments/awx-operator-controller-manager
```

If the deployment completes successfully, the logs end with:

```
$ kubectl -n awx logs -f deployments/awx-operator-controller-manager
```

```yaml
---
apiVersion: v1
kind: PersistentVolume
metadata:
  name: awx-postgres-13-volume
spec:
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  capacity:
    storage: 8Gi
  storageClassName: awx-postgres-volume
  hostPath:
    path: /data/postgres-13


---
apiVersion: v1
kind: PersistentVolume
metadata:
  name: awx-projects-volume
spec:
  accessModes:
    - ReadWriteOnce
```

base/pv.yaml

File   Edit   View   Terminal   Tabs   Help

```
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  capacity:
    storage: 8Gi
  storageClassName: awx-postgres-volume
  hostPath:
    path: /data/postgres-13


---
apiVersion: v1
kind: PersistentVolume
metadata:
  name: awx-projects-volume
spec:
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  capacity:
    storage: 2Gi
  storageClassName: awx-projects-volume
  hostPath:
    path: /data/projects
(END)
```
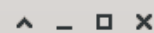
File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ sudo mkdir -p /data/postgres-13
[sysadmin@host209 awx-on-k3s]$ sudo mkdir -p /data/projects
[sysadmin@host209 awx-on-k3s]$ sudo chmod 755 /data/postgres-13
[sysadmin@host209 awx-on-k3s]$ sudo chown 1000:0 /data/projects
[sysadmin@host209 awx-on-k3s]$ 
```

```
[sysadmin@host209 awx-on-k3s]$ sudo mkdir -p /data/postgres-13
[sysadmin@host209 awx-on-k3s]$ sudo mkdir -p /data/projects
[sysadmin@host209 awx-on-k3s]$ sudo chmod 755 /data/postgres-13
[sysadmin@host209 awx-on-k3s]$ sudo chown 1000:0 /data/projects
[sysadmin@host209 awx-on-k3s]$ ls -ld /data/
drwxr-xr-x. 4 root root 41 Mar 15 20:01 /data/
[sysadmin@host209 awx-on-k3s]$ ls -l /data/
total 0
drwxr-xr-x. 2 root    root 6 Mar 15 20:01 postgres-13
drwxr-xr-x. 2 sysadmin root 6 Mar 15 20:01 projects
[sysadmin@host209 awx-on-k3s]$ 
```

kurokobo/awx-on-k3s: An example implementation of AWX on single node K3s using AWX Operator, with easy-to-use simplified configuration with ownership of data and passwords. - Google Chrome (on p16s.sparksoftcorp.io)

kurokobo/awx-on-k3s: An e...

github.com/kurokobo/awx-on-k3s

Personal   Sparksoft

README   MIT license

Deploy AWX

Deploy AWX, this takes few minutes to complete.

```
kubectl apply -k base
```

To monitor the progress of the deployment, check the logs of `deployments/awx-operator-controller-manager` :

```
kubectl -n awx logs -f deployments/awx-operator-controller-manager
```

If the deployment completes successfully, the logs end with:

```
$ kubectl -n awx logs -f deployments/awx-operator-controller-manager
...
----- Ansible Task Status Event StdOut (awx.ansible.com/v1beta1, Kind=AWX, awx/awx) -----
PLAY RECAP *********************************************************************
localhost                  : ok=85    changed=1    unreachable=0    failed=0    skipped=78    r
```

The required objects should now have been deployed next to AWX Operator in the `awx` namespace.

```
$ kubectl -n awx get awx,all,ingress,secrets
NAME                       AGE
awx.awx.ansible.com/awx    6m15s
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ kubectl apply -k base
```

```
[sysadmin@host209 awx-on-k3s]$ kubectl apply -k base
secret/awx-admin-password created
secret/awx-postgres-configuration created
secret/awx-secret-tls created
persistentvolume/awx-postgres-13-volume created
persistentvolume/awx-projects-volume created
persistentvolumeclaim/awx-projects-claim created
awx.awx.ansible.com/awx created
[sysadmin@host209 awx-on-k3s]$
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ kubectl -n awx logs -f deployments/awx-operator-c
ontroller-manager
```

[sysadmin@host209 awx-on-k3s]$ kubectl -n awx logs -f deployments/awx-operator-controller-manager
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"cmd","msg":"Version","Go Version":"go1.20.12","GOOS":"linux","GOARCH":"amd64","ansible-operator":"v1.34.0","commit":"d26c43bf94960d292152862a6685696be33190fb"}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"cmd","msg":"Watching namespaces","namespaces":["awx"]}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environment variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWX_AWX_ANSIBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environment variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWXBACKUP_AWX_ANSIBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environment variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWXRESTORE_AWX_ANSIBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environment variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWXMESHINGRESS_AWX_ANSIBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"ansible-controller","msg":"Watching resource","Options.Group":"awx.ansible.com","Options.Version":"v1beta1","Options.Kind":"AWX"}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"ansible-controller","msg":"Watching resource","Options.Group":"awx.ansible.com","Options.Version":"v1beta1

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ kubectl get pods -A
NAMESPACE      NAME                                              READY   STATUS
               RESTARTS         AGE
kube-system    helm-install-traefik-b2ndr                        0/1     Complet
ed             1                40m
kube-system    helm-install-traefik-crd-8fdz5                    0/1     Complet
ed             0                40m
kube-system    local-path-provisioner-84db5d44d9-njsgm           1/1     Running
               1 (2m38s ago)    40m
kube-system    coredns-6799fbcd5-zdf6z                           1/1     Running
               1 (2m38s ago)    40m
kube-system    svclb-traefik-a7122c19-j28lq                      2/2     Running
               2 (2m38s ago)    39m
kube-system    traefik-f4564c4f4-fx8sn                           1/1     Running
               1 (2m38s ago)    39m
awx            awx-operator-controller-manager-589cdd869b-7ttgf  2/2     Running
               2 (2m38s ago)    29m
kube-system    metrics-server-67c658944b-2sdqw                   1/1     Running
               1 (2m38s ago)    40m
awx            awx-postgres-13-0                                 0/1     Contain
erCreating     0                44s
[sysadmin@host209 awx-on-k3s]$
```
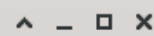
```
TASK [installer : Apply deployment resources] *******************************
task path: /opt/ansible/roles/installer/tasks/resources_configuration.yml:248


------------------------------------------------------------------------
```

```
{"level":"info","ts":"2024-03-15T20:09:58Z","logger":"proxy","msg":"Cache miss:
apps/v1, Kind=Deployment, awx/awx-task"}
{"level":"info","ts":"2024-03-15T20:09:58Z","logger":"proxy","msg":"Cache miss:
apps/v1, Kind=Deployment, awx/awx-task"}
{"level":"info","ts":"2024-03-15T20:09:58Z","logger":"proxy","msg":"Injecting ow
ner reference"}
{"level":"info","ts":"2024-03-15T20:09:58Z","logger":"proxy","msg":"Watching chi
ld resource","kind":"apps/v1, Kind=Deployment","enqueue_kind":"awx.ansible.com/v
1beta1, Kind=AWX"}
{"level":"info","ts":"2024-03-15T20:09:58Z","msg":"Starting EventSource","contro
ller":"awx-controller","source":"kind source: *unstructured.Unstructured"}
{"level":"info","ts":"2024-03-15T20:09:58Z","logger":"proxy","msg":"Cache miss:
apps/v1, Kind=Deployment, awx/awx-task"}
{"level":"info","ts":"2024-03-15T20:10:03Z","logger":"proxy","msg":"Read object
from cache","resource":{"IsResourceRequest":true,"Path":"/apis/apps/v1/namespace
s/awx/deployments/awx-task","Verb":"get","APIPrefix":"apis","APIGroup":"apps","A
PIVersion":"v1","Namespace":"awx","Resource":"deployments","Subresource":"","Nam
e":"awx-task","Parts":["deployments","awx-task"]}}
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ kubectl -n awx get pods
NAME                                             READY   STATUS      RESTARTS
      AGE
awx-operator-controller-manager-589cdd869b-7ttgf  2/2    Running     2 (4m3s ag
o)    30m
awx-postgres-13-0                                 1/1    Running     0
      2m9s
awx-task-64b7645886-gsfkl                         0/4    Init:0/2    0
      22s
[sysadmin@host209 awx-on-k3s]$ []
```

File   Edit   View   Terminal   Tabs   Help

```
[sysadmin@host209 awx-on-k3s]$ watch -n 10 kubectl -n awx get pods
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

Every 10.0s: kubectl -n awx ge...   host209.virtual.lan: Fri Mar 15 20:16:32 2024


NAME                                          READY   STATUS            RES
TARTS      AGE
awx-operator-controller-manager-589cdd869b-7ttgf   2/2    Running           2 (
10m ago)    37m
awx-postgres-13-0                             1/1    Running           0
            8m21s
awx-task-64b7645886-gsfkl                     0/4    PodInitializing   0
            6m34s
awx-web-986fc97fd-tbkpx                       0/3    PodInitializing   0
            4m33s
```
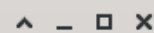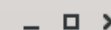
File   Edit   View   Terminal   Tabs   Help

```
Every 10.0s: kubectl -n awx ge...   host209.virtual.lan: Fri Mar 15 20:20:57 2024


NAME                                          READY   STATUS    RESTARTS
    AGE
awx-operator-controller-manager-589cdd869b-7ttgf   2/2     Running   2 (14m ago)
    41m
awx-postgres-13-0                             1/1     Running   0
    12m
awx-web-986fc97fd-tbkpx                       3/3     Running   0
    8m58s
awx-task-64b7645886-gsfkl                     4/4     Running   0
    10m
```

```
[sysadmin@host209 awx-on-k3s]$ kubectl get pods -A
NAMESPACE      NAME                                              READY   STATUS           RESTARTS          AGE
kube-system    helm-install-traefik-b2ndr                        0/1     Completed        1                 46m
kube-system    helm-install-traefik-crd-8fdz5                    0/1     Completed        0                 46m
kube-system    local-path-provisioner-84db5d44d9-njsgm           1/1     Running          1 (8m19s ago)     46m
kube-system    coredns-6799fbcd5-zdf6z                           1/1     Running          1 (8m19s ago)     46m
kube-system    svclb-traefik-a7122c19-j28lq                      2/2     Running          2 (8m19s ago)     45m
kube-system    traefik-f4564c4f4-fx8sn                           1/1     Running          1 (8m19s ago)     45m
awx            awx-operator-controller-manager-589cdd869b-7ttgf  2/2     Running          2 (8m19s ago)     35m
kube-system    metrics-server-67c658944b-2sdqw                   1/1     Running          1 (8m19s ago)     46m
awx            awx-postgres-13-0                                 1/1     Running          0                 6m25s
awx            awx-task-64b7645886-gsfkl                         0/4     PodInitializing  0                 4m38s
awx            awx-web-986fc97fd-tbkpx                           0/3     PodInitializing  0                 2m37s
[sysadmin@host209 awx-on-k3s]$
```

```
[sysadmin@host209 awx-on-k3s]$ kubectl get pods -A
NAMESPACE     NAME                                         READY   STATUS      RESTARTS        AGE
kube-system   helm-install-traefik-b2ndr                   0/1     Completed   1               53m
kube-system   helm-install-traefik-crd-8fdz5               0/1     Completed   0               53m
kube-system   local-path-provisioner-84db5d44d9-njsgm      1/1     Running     1 (15m ago)     53m
kube-system   coredns-6799fbcd5-zdf6z                      1/1     Running     1 (15m ago)     53m
kube-system   svclb-traefik-a7122c19-j28lq                 2/2     Running     2 (15m ago)     52m
kube-system   traefik-f4564c4f4-fx8sn                      1/1     Running     1 (15m ago)     52m
awx           awx-operator-controller-manager-589cdd869b-7ttgf  2/2  Running   2 (15m ago)     42m
kube-system   metrics-server-67c658944b-2sdqw              1/1     Running     1 (15m ago)     53m
awx           awx-postgres-13-0                            1/1     Running     0               13m
awx           awx-web-986fc97fd-tbkpx                      3/3     Running     0               9m49s
awx           awx-task-64b7645886-gsfkl                    4/4     Running     0               11m
[sysadmin@host209 awx-on-k3s]$ 
```

```
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File   Edit   View   Terminal   Tabs   Help

[sysadmin@host209 awx-on-k3s]$ kubectl -n awx get awx,all,ingress,secrets
NAME                              AGE
awx.awx.ansible.com/awx     11m


NAME                                                       READY    STATUS      RESTART
S      AGE
pod/awx-operator-controller-manager-589cdd869b-7ttgf       2/2      Running     2 (13m
ago)   40m
pod/awx-postgres-13-0                                      1/1      Running     0
       11m
pod/awx-web-986fc97fd-tbkpx                                3/3      Running     0
       7m45s
pod/awx-task-64b7645886-gsfkl                              4/4      Running     0
       9m46s


NAME                                                       TYPE         CLUSTER-IP
     EXTERNAL-IP    PORT(S)       AGE
service/awx-operator-controller-manager-metrics-service    ClusterIP    10.43.79.2
51    <none>         8443/TCP      40m
service/awx-postgres-13                                    ClusterIP    None
      <none>         5432/TCP    11m
service/awx-service                                        ClusterIP    10.43.29.2
55    <none>         80/TCP        9m48s
```

File   Edit   View   Terminal   Tabs   Help

```
NAME                                               READY   UP-TO-DATE   AVAILABLE
    AGE
deployment.apps/awx-operator-controller-manager    1/1     1            1
    40m
deployment.apps/awx-web                            1/1     1            1
    7m45s
deployment.apps/awx-task                           1/1     1            1
    9m46s

NAME                                                   DESIRED   CURRENT
 READY    AGE
replicaset.apps/awx-operator-controller-manager-589cdd869b    1         1
 1        40m
replicaset.apps/awx-web-986fc97fd                            1         1
 1        7m45s
replicaset.apps/awx-task-64b7645886                         1         1
 1        9m46s

NAME                            READY     AGE
statefulset.apps/awx-postgres-13    1/1       11m

NAME                                  CLASS      HOSTS              ADDRESS
         PORTS      AGE
ingress.networking.k8s.io/awx-ingress    traefik   host209.virtual.lan    192.168
```

```
replicaset.apps/awx-web-986fc97fd                               1          1
   1        7m45s
replicaset.apps/awx-task-64b7645886                             1          1
   1        9m46s


NAME                                    READY     AGE
statefulset.apps/awx-postgres-13        1/1       11m

NAME                                          CLASS     HOSTS                    ADDRESS
          PORTS        AGE
ingress.networking.k8s.io/awx-ingress     traefik     host209.virtual.lan     192.168.
122.209     80, 443     9m47s


NAME                                    TYPE                DATA     AGE
secret/redhat-operators-pull-secret     Opaque              1        40m
secret/awx-admin-password               Opaque              1        11m
secret/awx-postgres-configuration       Opaque              6        11m
secret/awx-secret-tls                   kubernetes.io/tls   2        11m
secret/awx-secret-key                   Opaque              1        11m
secret/awx-broadcast-websocket          Opaque              1        11m
secret/awx-receptor-ca                  kubernetes.io/tls   2        9m56s
secret/awx-receptor-work-signing        Opaque              2        9m53s
secret/awx-app-credentials              Opaque              3        9m50s
[sysadmin@host209 awx-on-k3s]$
```

```
3711","EventData.Name":"installer : Start installation if auto_upgrade is false
and deployment is missing"}


------------------------- Ansible Task StdOut -------------------------------


TASK [installer : Start installation if auto_upgrade is false and deployment is
missing] ***
task path: /opt/ansible/roles/installer/tasks/main.yml:31


------------------------------------------------------------------------------
{"level":"info","ts":"2024-03-15T20:20:54Z","logger":"runner","msg":"Ansible-run
ner exited successfully","job":"1436326678469083711","name":"awx","namespace":"a
wx"}


----- Ansible Task Status Event StdOut (awx.ansible.com/v1beta1, Kind=AWX, awx/a
wx) -----


PLAY RECAP *********************************************************************
localhost                  : ok=85   changed=1   unreachable=0   failed=0   s
kipped=78   rescued=0   ignored=1


----------
```

Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

File Edit View Terminal Tabs Help

3711","EventData.Name":"installer : Start installation if auto_upgrade is false and deployment is missing"}

------------------------- Ansible Task StdOut ----------------------------

TASK [installer : Start installation if auto_upgrade is false and deployment is missing] ***
task path: /opt/ansible/roles/installer/tasks/main.yml:31

{"level":"info","ts":"2024-03-15T20:20:54Z","logger":"runner","msg":"Ansible-runner exited successfully","job":"1436326678469083711","name":"awx","namespace":"awx"}

----- Ansible Task Status Event StdOut (awx.ansible.com/v1beta1, Kind=AWX, awx/awx) -----

PLAY RECAP ***
localhost   : ok=85   changed=1   unreachable=0   failed=0   skipped=78   rescued=0   ignored=1

Log In

Finally, we get to explore the UI

Your connection is not private

Attackers might be trying to steal your information from **host209.virtual.lan** (for example, passwords, messages, or credit cards). Learn more

NET::ERR_CERT_AUTHORITY_INVALID

Advanced

Back to safety

Welcome to AWX!

Please log in

Username *

admin

Password *

••••••••••••

Log In

kurokobo/awx-on-k3s: An e...   AWX | Dashboard

Not secure | ~~https~~://host209.virtual.lan/#/home

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A tech preview of the new AWX user interface can be found here.

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5

4

3

2

1

0

2/15 2/16 2/17 2/18 2/19 2/20 2/21 2/22 2/23 2/24 2/25 2/26 2/27 2/28 2/29 3/1 3/2 3/3 3/4 3/5 3/6 3/7 3/8 3/9 3/10 3/11 3/12 3/13 3/14 3/15

Date

AWX

```
_____
< AWX 23.9.0 >
----------------
        \
         \   ^__^
            (oo)_____
            (__)\       A )\
                ||----w |
                ||     ||
```

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0

Project sync failures

Date

3/10 3/11 3/12 3/13 3/14 3/15

ansible/awx: AWX provides a ✕

🔒 github.com/ansible/awx

📁 Personal 📁 Sparksoft

ansible / awx

Type / to search

‹› Code ⊙ Issues **1.5k**   ⑂ Pull requests **105**   ▶ Actions   ▦ Projects **1**   ⊘ Security   ⊷ Insights

awx Public

👁 Watch **374** ▾   ⑂ Fork **3.3k** ▾   ☆ Star **13.3k** ▾

🏷 devel ▾   ⑂ **36** Branches   🏷 **94** Tags

Go to file   t

Add file ▾   ‹› Code ▾

About

Switch branches/tags   ✕

R #2001 (misc doc cleanup) ...   •••   ✓   065bd3a · 2 hours ago   ⏱ **33,881 Commits**

Find a tag...

AWX provides a web-based user interface, REST API, and task engine built on top of Ansible. It is one of the upstream projects for Red Hat Ansible Automation Platform.

Branches   **Tags**

Skip replicas test for awx-operator (#14987)   2 days ago

[developer productivity improvement] Running awx co...   last week

python   ansible   automation   django

24.0.0

Add dump_auth_config management cmd (for SAML an...   3 hours ago

reactjs   django-rest-framework

23.9.0

Reset another to test-playbooks   3 weeks ago

hacktoberfest   awx

23.8.1

AAP-13369 Python 3.9 -> 3.11 upgrade (#14771)   2 days ago

23.8.0

Assorted renaming and string changes   3 years ago

📖 Readme

23.7.0

Backported from product-docs PR #2001 (misc doc clea...   2 hours ago

⚖ View license

23.6.0

⚖ Code of conduct

23.5.1

Mismatch dependencies version (#14986)   yesterday

⚖ Security policy

23.5.0

Mismatch dependencies version (#14986)   yesterday

〜 Activity

23.4.0

▤ Custom properties

23.3.1

AAP-13369 Python 3.9 -> 3.11 upgrade (#14771)   2 days ago

☆ **13.3k** stars

👁 **374** watching

Organizations

To carve up your enterprise

AWX | Organizations

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	Name ↑						
☐	**Default**				0	0	✎

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Create New Organization

Name *

Sparksoft

Description

Sparksoft Corporation

Instance Groups ❓

🔍

Execution Environment ❓

🔍

Galaxy Credentials

🔍 Ansible Galaxy ✕

Save Cancel

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Organizations > Sparksoft

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Name   Sparksoft   **Description**   Sparksoft Corporation   **Created**   3/15/2024, 2:26:27 PM by admin

Last Modified   3/15/2024, 2:26:27 PM by admin

Galaxy Credentials   Galaxy Api Token: An...

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For assigning permissions

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Username ↑	First Name	Last Name	Role	Actions
admin			System Administrator	✏️

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First Name

Last Name

Email

Username *

Password *

Confirm Password *

User Type *

Normal User

Organization *

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Users
Create New User

First Name	Last Name	Email
Thomas	Cameron	thomas.cameron@sparksoftcorp.com

Username *	Password *	Confirm Password *
thomas.cameron	············	············

User Type *

Normal User ▾

Normal User
System Auditor
System Administrator

Organization *

🔍

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Create New User

First Name	Last Name	Email
Thomas	Cameron	thomas.cameron@sparksoftcorp.com

Username *	Password *	Confirm Password *
thomas.cameron	••••••••••••	••••••••••••

User Type *	Organization *
System Administrator	Sparksoft

Save   Cancel

AWX | thomas.cameron

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Users > thomas.cameron

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First Name	Thomas	**Last Name**	Cameron	**Email**	thomas.cameron@sparksoftcorp.com
Username	thomas.cameron	**User Type**	System Administrator	**Created**	3/15/2024, 2:28:53 PM

Edit   Delete

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	Username ↑	First Name	Last Name	Role	Actions
☐	admin			System Administrator	✎
☐	thomas.cameron	Thomas	Cameron	System Administrator	✎

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	Name		Add	Delete		1 - 2 of 2

	Name ↑	Type	Actions
☐	**Ansible Galaxy**	Ansible Galaxy/Automation Hub API Token	📋
☐	**Demo Credential**	Machine	✏️ 📋

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Not secure | https://host209.virtual.lan/#/credentials/add

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Name *	Description	Organization
GitHub	Thomas's GitHub Repository	🔍 Sparksoft

Credential Type *

Source Control

Type Details

Username

tdcam

Password

•••••••••••••••••••••••••

SCM Private Key

id_rsa   Browse...   Clear

```
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEA                              AAABlwAAAdzc2gtcn
NhAAAAAwEAAQAAAYE                            Bk/LqDJGucPyGggrcy/
nqdeS5SACyGAm0n0+d                    O+CzVw4tPG1ubBQjkuCYD
9URrXVSoL5FYdPo9loR              TyAybF1h3cETZB4xeK
```

Private Key Passphrase

Save   Cancel

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Name ▾ [   ] 🔍 **Add** Delete   1 – 3 of 3 ▾ ‹ ›

Name ↑	Type	Actions
Ansible Galaxy	Ansible Galaxy/Automation Hub API Token	📋
Demo Credential	Machine	✏️ 📋
GitHub	Source Control	✏️ 📋

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Setting up Ansible ping

A simple test to see if connectivity is right

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Projects

	Name ⌄			Add	Delete		1 - 1 of 1 ⌄

		Name ↑	Status	Type	Revision	Actions
>	☐	**Demo Project**	✓ Successful	Git	347e44f ⧉	⟳ ✎ ⧉

1 - 1 of 1 items ⌄   « ‹   1   of 1 page   › »

https://host209.virtual.lan/#/projects

AWX | Projects   tdcam/ansible-ping: My Ans   +

github.com/tdcam/ansible-ping

📁 Personal   📁 Sparksoft

tdcam / ansible-ping

🔍 Type / to search

Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

ansible-ping Public

📌 Pin   👁 Unwatch 1 ▾   ⑂ Fork 0 ▾   ☆ Star 0 ▾

main ▾   2 Branches   0 Tags

Go to file   t   Add file ▾   <> Code ▾

About

My Ansible ping project

	Local	Codespaces

tdcam Added files

>_ Clone   ?

HTTPS   SSH   GitHub CLI

git@github.com:tdcam/ansible-ping.git

Use a password-protected SSH key.

📥 Download ZIP

📖 Readme

⚖ Apache-2.0 license

∿ Activity

☆ 0 stars

👁 1 watching

⑂ 0 forks

LICENSE	Initial commit
README.md	Update README.r
ansible-navigator.yml	Added files
ansible.cfg	Added files
inventory	Added files
ping.yml	Added files

2 months ago

Releases

No releases published
Create a new release

📖 README   ⚖ Apache-2.0 license

✎

Packages

No packages published
Publish your first package

ansible-ping

AWX | Projects

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/projects/add

Personal | Sparksoft

AWX

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Create New Project

Name *

Thomas's Ansible Ping

Description

Ansible ping by Thomas Cameron

Organization *

🔍 Sparksoft

Execution Environment ⓘ

🔍

Source Control Type *

Git ▼

Content Signature Validation Credential ⓘ

🔍

Type Details

Source Control URL * ⓘ

git@github.com:tdcam/ansible-ping.git

Source Control Branch/Tag/Commit ⓘ

Source Control Refspec ⓘ

Source Control Credential

🔍 GitHub

Options

☐ Clean ⓘ   ☐ Delete ⓘ   ☐ Track submodules ⓘ   ☐ Update Revision on Launch ⓘ   ☐ Allow Branch Override ⓘ

Save   Cancel

AWX

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🔔 ❓ ⌄   👤 admin ⌄

Projects > Ansible Ping

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◀ Back to Projects | **Details** | Access | Job Templates | Notifications | Schedules

Last Job Status	🔄 Running	**Name**	Ansible Ping	**Description**	Ansible ping playbook
Organization	Sparksoft	**Source Control Type**	Git	**Source Control Revision**	Sync for revision
Source Control URL ⓘ	git@github.com:tdcam/ansible-ping.git	**Source Control Credential**	Scm: GitHub	**Cache Timeout**	0 Seconds
Project Base Path ⓘ	/var/lib/awx/projects	**Playbook Directory** ⓘ	_8__ansible_ping	**Created**	3/15/2024, 3:01:50 PM by admin
Last Modified	3/15/2024, 3:01:50 PM by admin				

Edit | Cancel Sync | Delete

Not secure   https://host209.virtual.lan/#/projects/8/details

Personal   Sparksoft

AWX

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Projects > Ansible Ping

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Last Job Status	✓ Successful	**Name**	Ansible Ping
		Source Control Type	Git
Organization	Sparksoft	**Source Control Credential**	Scm: GitHub
Source Control URL ⓘ	git@github.com:tdcam/ansible-ping.git	**Playbook Directory** ⓘ	_8__ansible_ping
Project Base Path ⓘ	/var/lib/awx/projects		
Last Modified	3/15/2024, 3:01:50 PM by admin		

Description   Ansible ping playbook

Source Control Revision   beac496

Cache Timeout   0 Seconds

Created   3/15/2024, 3:01:50 PM by admin

Edit   Sync   Delete

AWX | Projects

tdcam/ansible-ping: My Ans

Not secure | ~~https~~://host209.virtual.lan/#/projects

Personal | Sparksoft

Projects

		Name ▾						1 - 2 of 2 ▾	

		Name ↑	Status	Type	Revision	Actions
›	☐	**Demo Project**	✔ Successful	Git	347e44f	⟳ ✎ ⧉
›	☐	**Thomas's Ansible Ping**	✔ Successful	Git	beac496	⟳ ✎ ⧉

1 - 2 of 2 items ▾   1 of 1 page

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Ping inventory

What systems do you want to run this on?

AWX | Inventories ✕ | tdcam/ansible-ping: My Ans ✕ | +

← → ↻ ⌂ | ⊘ Not secure | https://host209.virtual.lan/#/inventories | ☆ | 📁 Personal | 📁 Sparksoft

AWX

🔔 | ❓ ▾ | 👤 admin ▾

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Inventories

↺

	Name ▾			[Add ▾]	[Delete]	1 - 1 of 1 ◄ ►

	Name ↑	Sync Status	Type	Organization		Actions
☐	**Demo Inventory**	⊖ Disabled	Inventory	Default		✏️ ⧉

1 - 1 of 1 items ▾   « ‹   1 of 1 page › »

AWX

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/add

Personal   Sparksoft

AWX

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Create new inventory

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Name *

WordPress Servers

Description

Thomas's WordPress Machines

Organization *

Sparksoft

Instance Groups

Labels ?

Options

☐ Prevent Instance Group Fallback ?

Variables ?   YAML JSON

```
1  - - -
```

Save   Cancel

AWX | WordPress Servers

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/details

Personal | Sparksoft

AWX

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Inventories > WordPress Servers

Details

◄ Back to Inventories **Details** Access Groups Hosts Sources Jobs Job Templates

Name	WordPress Servers	**Description**	Thomas's WordPress Machines	**Type**	Inventory
Organization	Sparksoft	**Total hosts**	0		

Variables ⑦ [YAML] [JSON]

```
1  - - -
```

Created	3/15/2024, 3:42:04 PM by admin	**Last Modified**	3/15/2024, 3:42:04 PM by admin

[Edit] [Delete]

AWX | WordPress Servers

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/hosts

Personal   Sparksoft

AWX

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Inventories > WordPress Servers

Hosts

◀ Back to Inventories   Details   Access   Groups   **Hosts**   Sources   Jobs   Job Templates

Name ▾   [   ] 🔍   Add   Run Command   Delete

No Hosts Found

Please add Hosts to populate this list

AWX | Hosts

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/hosts/add

📁 Personal 📁 Sparksoft

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Inventories > WordPress Servers > Hosts

Create new host

Name *

host183.virtual.lan

Description

WordPress Web Server

Variables [YAML | JSON]

```
1  - - -
2
```

[Save]   Cancel

AWX | WordPress Servers

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/hosts

📁 Personal   📁 Sparksoft

AWX

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Inventories > WordPress Servers

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◀ Back to Inventories   Details   Access   Groups   **Hosts**   Sources   Jobs   Job Templates

Name ▼ | [search] | 🔍 | Add | Run Command | Delete

1 - 1 of 1 ▼

Name ↑	Description ↕	Related Groups	Actions
☐ host183.virtual.lan	WordPress Web Server		⬤ On ✏️

1 - 1 of 1 items ▼   1 of 1 page

AWX | Hosts

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/hosts/add

📁 Personal   📁 Sparksoft

AWX

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Inventories > WordPress Servers > Hosts

Create new host

Name *

host120.virtual.lan

Description

WordPress DB Server

Variables   YAML | JSON

```
1  - - -
2
```

Save   Cancel

AWX | WordPress Servers ✕ | tdcam/ansible-ping: My Ans ✕ | +

Not secure | https://host209.virtual.lan/#/inventories/inventory/2/hosts

📁 Personal   📁 Sparksoft

AWX

🔔   ❓ ▾   👤 admin ▾

Views ▾

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Inventories > WordPress Servers

Hosts

◀ Back to Inventories   Details   Access   Groups   **Hosts**   Sources   Jobs   Job Templates

☐ | Name ▾ | [   ] 🔍 | **Add** | **Run Command** | Delete | 1 - 2 of 2 ▾ ‹ ›

☐	Name ↑	Description ↕	Related Groups	Actions
☐	host120.virtual.lan	WordPress DB Server		🔵 On ✏️
☐	host183.virtual.lan	WordPress Web Server		🔵 On ✏️

1 - 2 of 2 items ▾   « ‹   1   of 1 page   › »

Set up ssh

It's preferred that you have passwordless ssh logins

ssh

- Normally, I build my machines with kickstarts
  - I add the remote user (sysadmin) with NO password
  - I write the pub key to /home/sysadmin/.ssh and make sure ownership and permissions are set
- In this example, I just wanted to show you what the manual process looks like

```
Terminal - sysadmin@fedora:~ (on p16s.sparksoftcorp.io)
```

File   Edit   View   Terminal   Tabs   Help

```
sysadmin@p16s:~$ ssh-keygen -t ecdsa
Generating public/private ecdsa key pair.
Enter file in which to save the key (/home/sysadmin/.ssh/id_ecdsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/sysadmin/.ssh/id_ecdsa
Your public key has been saved in /home/sysadmin/.ssh/id_ecdsa.pub
The key fingerprint is:
SHA256:VIM2m0WnjfuFbg8xRyOA2TsXWp0woQWPglrq0n4Tk1A sysadmin@p16s.sparksoftcorp.i
o
The key's randomart image is:
+---[ECDSA 256]---+
|        **.*+ . |
|      E.*.o%o.o |
|     .o.o==++.o |
|     .+ .o.+..+ . |
|     o. .S .o+ o |
|    o  +    o = |
|    . o  o    = |
|     o  o   . o |
|     ..  .    . |
+----[SHA256]-----+
sysadmin@p16s:~$ []
```

```
sysadmin@p16s:~$ ls -l .ssh/id_ecdsa*
-rw-------. 1 sysadmin sysadmin 525 Mar 15 15:51 .ssh/id_ecdsa
-rw-r--r--. 1 sysadmin sysadmin 192 Mar 15 15:51 .ssh/id_ecdsa.pub
sysadmin@p16s:~$
```

File Edit View Terminal Tabs Help

```
sysadmin@p16s:~$ ssh-copy-id -i /home/sysadmin/.ssh/id_ecdsa.pub sysadmin@host12
0.virtual.lan
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/sysadmin/.s
sh/id_ecdsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter
out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompt
ed now it is to install the new keys
sysadmin@host120.virtual.lan's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'sysadmin@host120.virtual.lan'"
and check to make sure that only the key(s) you wanted were added.

sysadmin@p16s:~$ 
```

File   Edit   View   Terminal   Tabs   Help

```
sysadmin@p16s:~$ ssh-copy-id -i /home/sysadmin/.ssh/id_ecdsa.pub host183.virtual
.lan
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/sysadmin/.s
sh/id_ecdsa.pub"
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter
out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompt
ed now it is to install the new keys
sysadmin@host183.virtual.lan's password:

Number of key(s) added: 1

Now try logging into the machine, with:   "ssh 'host183.virtual.lan'"
and check to make sure that only the key(s) you wanted were added.

sysadmin@p16s:~$ 
```

Credentials (managed machines)

Now we tell AWX what our private key is so it can log into the managed machines

AWX | Credentials ✕ | tdcam/ansible-ping: My Ans ✕ | +

Not secure | ~~https~~://host209.virtual.lan/#/credentials

📁 Personal 📁 Sparksoft

AWX

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🔔 ❓ ▾ 👤 admin ▾

Credentials

☐ | Name ▾ | [search] 🔍 | **Add** | Delete

1 - 3 of 3 ▾ ‹ ›

	Name ↑	Type	Actions
☐	**Ansible Galaxy**	Ansible Galaxy/Automation Hub API Token	📋
☐	**Demo Credential**	Machine	✏️ 📋
☐	**GitHub**	Source Control	✏️ 📋

1 - 3 of 3 items ▾ « ‹ 1 of 1 page › »

```
sysadmin@p16s:~$ cat .ssh/id_ecdsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAAAaAAAABNlY2RzYS
1zaGEyLW5pc3RwMjU2AAAACG5pc3RwMjU2AAAAQQSL9boLgQqDCQoUqaiGeiLgPMRMbV1F
nz0c7X236zKCvs6KWRbuAsibYx+FJDSW82p/lhiVsqfsvFIGVhPi5wcJAAAAuBp69c8aev
XPAAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAIbmlzdHAyNTYAAABBBIv1uguBCoMJChSp
qIZ6IuA8xExtXUWfPRztfbfrMoK+zopZFu4CyJtjH4UkNJbzan+WGJWyp+y8UgZWE+LnBw
kAAAAgZIewNyKEkADAUsG+ifi5Asv7YpUlmVM0y30ID9SmVpAAAAec3lzYWRtaW5AcDE2
cy5zcGFya3NvZnRjb3JwLmlvAQI=
-----END OPENSSH PRIVATE KEY-----
sysadmin@p16s:~$
```

AWX | Credentials

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/credentials/add

Personal   Sparksoft

AWX

admin

Credentials
Create New Credential

Name *

sysadmin's ssh key

Description

System Admin's ssh key

Organization

Sparksoft

Credential Type *

Machine

Type Details

Username

sysadmin

Password

••••••••••••

☐ Prompt on launch

SSH Private Key

Drag a file here or browse to upload

Browse...   Clear

XPAAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIv1uguBCoMJChSp
qIZ6IuA8xExtXUWfPRztfbfrMoK+zopZFu4CyJtjH4UkNJbzan+WGJWyp+y8UgZWE+LnBw
kAAAAgZIewNyKEkADAUsG+ifi5Asv7YpUlmVM0y30ID9SmVpAAAAec3IzYWRtaW5AcDE2
cy5zcGFya3NvZnRib3JwLmlvAQI=
-----END OPENSSH PRIVATE KEY-----

Signed SSH Certificate

Drag a file here or browse to upload

Browse...   Clear

Private Key Passphrase

☐ Prompt on launch   **Privilege Escalation Method**   **Privilege Escalation Username**

AWX

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Type Details

Username

sysadmin

Password

☐ Prompt on launch

••••••••••••

SSH Private Key

Drag a file here or browse to upload   Browse…   Clear

XPAAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIv1uguBCoMJChSp
qlZ6luA8xExtXUWfPRztfbfrMoK+zopZFu4CyJtjH4UkNJbzan+WGJWyp+y8UgZWE+LnBw
kAAAAgZIewNyKEkADAUsG+ifi5Asv7YpUlmVM0y30lD9SmVpAAAAec3lzYWRtaW5AcDE2
cy5zcGFya3NvZnRjb3JwLmlvAQI=
-----END OPENSSH PRIVATE KEY-----

Signed SSH Certificate

Drag a file here or browse to upload   Browse…   Clear

Private Key Passphrase   ☐ Prompt on launch

Privilege Escalation Method ⓘ

sudo

Privilege Escalation Username

root

Privilege Escalation Password   ☐ Prompt on launch

Save   Cancel

Not secure   https://host209.virtual.lan/#/credentials/4/details

Personal   Sparksoft

AWX

admin

Credentials > sysadmin's ssh key

Details

◀ Back to Credentials   **Details**   Access   Job Templates

Name	sysadmin's ssh key	**Description**	System Admin's ssh key	**Organization**	Sparksoft
Credential Type	Machine	**Username**	sysadmin	**Password**	Encrypted
SSH Private Key	Encrypted	**Privilege Escalation Method** ⓘ	sudo	**Privilege Escalation Username**	root
Created	3/15/2024, 4:07:55 PM by admin	**Last Modified**	3/15/2024, 4:07:55 PM by admin		

Edit   Delete

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AWX | Credentials

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/credentials

Personal   Sparksoft

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Add   Delete

1 - 4 of 4

Name ↑	Type	Actions
Ansible Galaxy	Ansible Galaxy/Automation Hub API Token	
Demo Credential	Machine	
GitHub	Source Control	
sysadmin's ssh key	Machine	

1 - 4 of 4 items   1 of 1 page

Ping template

They're not playbooks

Not secure | https://host209.virtual.lan/#/templates

📁 Personal 📁 Sparksoft

AWX

🔔 ❓ ▾ 👤 admin ▾
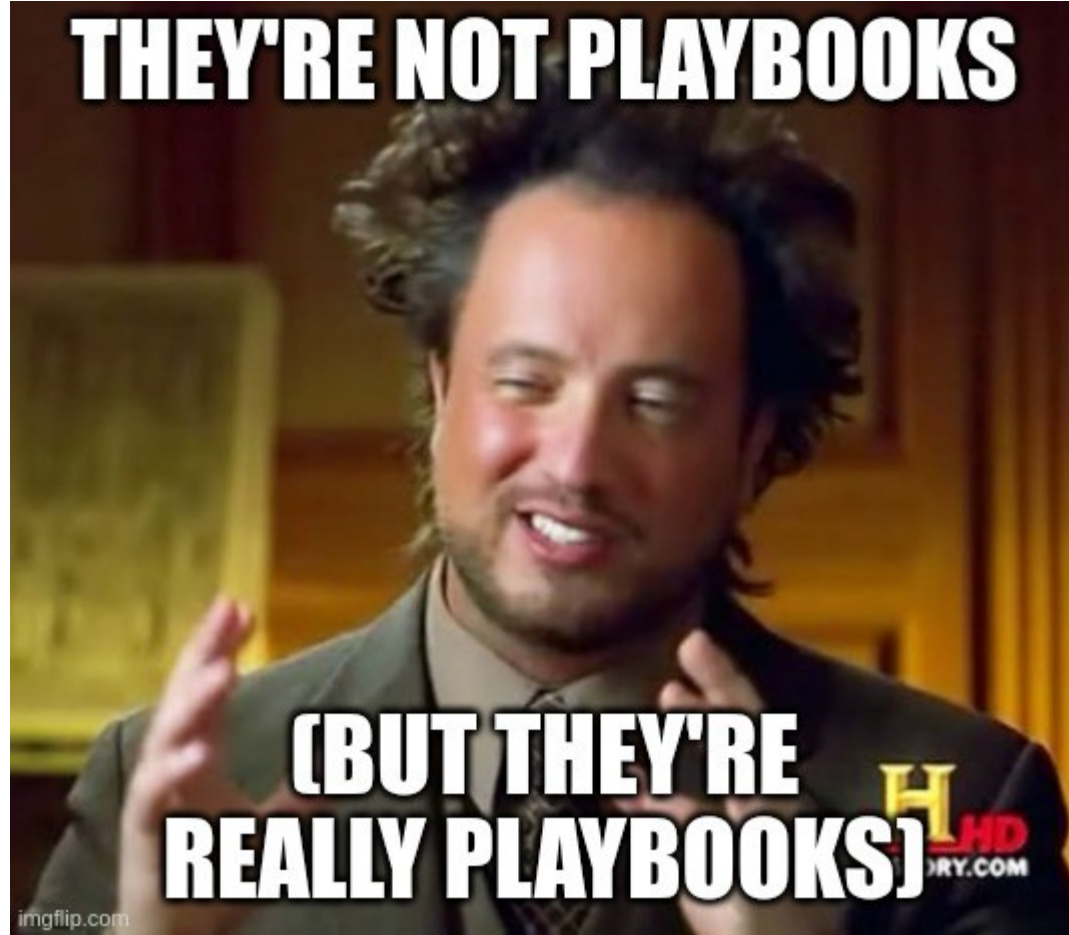
Templates

Templates

☐ | Name ▾ | | 🔍 | Add ▾ | Delete | 1 - 1 of 1 ‹ ›

	Name ↑	Type ↕	Organization ↕	Last Ran ↕	Actions
› ☐	Demo Job Template	Job Template	Default	3/15/2024, 4:26:34 PM	🚀 ✏️ 📋

1 - 1 of 1 items ▾   « ‹ 1 of 1 page › »

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AWX   tdcam/ansible-ping: My Ans

Not secure   https://host209.virtual.lan/#/templates/job_template/add

Personal   Sparksoft

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Create New Job Template

Name *
Ping Managed Systems

Description
This pings managed systems

Job Type *   ☐ Prompt on launch
Run

Inventory *   ☐ Prompt on launch
🔍 WordPress Servers

Project *
🔍 Thomas's Ansible Ping

Execution Environment   ☐ Prompt on launch
🔍

Playbook *
ping.yml

Credentials   ☐ Prompt on launch
🔍 SSH: sysadmin's ssh k... ✕

Labels   ☐ Prompt on launch

Variables   YAML JSON   ☐ Prompt on launch

```
1  - - -
2
```

Forks   ☐ Prompt on launch
0

Limit   ☐ Prompt on launch

Verbosity   ☐ Prompt on launch
0 (Normal)

AWX

tdcam/ansible-ping: My Ans

Not secure | https://host209.virtual.lan/#/templates/job_template/add

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Variables ⓘ   [YAML] [JSON]   ☐ Prompt on launch

```
1  - - -
2
```

Forks ⓘ   ☐ Prompt on launch   Limit ⓘ   ☐ Prompt on launch   Verbosity ⓘ   ☐ Prompt on launch

0

0 (Normal)

Job Slicing ⓘ   ☐ Prompt on launch   Timeout ⓘ   ☐ Prompt on launch   Show Changes ⓘ   ☐ Prompt on launch

1

0

Off

Instance Groups ⓘ   ☐ Prompt on launch

🔍

Job Tags ⓘ   ☐ Prompt on launch

Skip Tags ⓘ   ☐ Prompt on launch

Options

☑ Privilege Escalation ⓘ   ☐ Provisioning Callbacks ⓘ   ☐ Enable Webhook ⓘ   ☑ Concurrent Jobs ⓘ   ☐ Enable Fact Storage ⓘ   ☐ Prevent Instance Group Fallback ⓘ

Save   Cancel

AWX | Ping Managed Syste ✕ | tdcam/ansible-ping: My Ans ✕ | +

Not secure | https://host209.virtual.lan/#/templates/job_template/10/details

📁 Personal   📁 Sparksoft

AWX

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Templates > Ping Managed Systems

Details

◂ Back to Templates | **Details** | Access | Notifications | Schedules | Jobs | Survey

Name	Ping Managed Systems	**Description**	This pings managed systems	**Job Type** ⓘ	run
Organization	Sparksoft	**Inventory** ⓘ	WordPress Servers	**Project** ⓘ	Thomas's Ansible Ping
Execution Environment ⓘ	AWX EE (latest)	**Playbook** ⓘ	ping.yml	**Forks** ⓘ	0
Verbosity ⓘ	0 (Normal)	**Timeout** ⓘ	0	**Show Changes** ⓘ	Off
Job Slicing ⓘ	1	**Created**	3/15/2024, 4:31:00 PM by admin	**Last Modified**	3/15/2024, 4:31:00 PM by admin
Enabled Options ⓘ	Privilege Escalation Concurrent Jobs				

Credentials ⓘ   SSH: sysadmin's ssh k...

Variables ⓘ   [YAML] [JSON]

```
1  - - -
```

[Edit]   [Launch]   [Delete]

AWX | 6 - Ping Managed Sys...
tdcam/ansible-ping: My Ans...

Not secure | https://host209.virtual.lan/#/jobs/playbook/6/output

Personal   Sparksoft

AWX

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Jobs > 6 - Ping Managed Systems

Output

◀ Back to Jobs   Details   Output

Ping Managed Systems ✔ Successful   Plays 1   Tasks 1   Hosts 2   Elapsed 00:00:07

Stdout ▾

🔔 **Events processing complete.** Reload output

```
0   Identity added: /runner/artifacts/6/ssh_key_data (sysadmin@p16s.sparksoftcorp.io)
1   SSH password:
2
3   PLAY [ping all machines] *********************************************************   16:31:19
4
5   TASK [Gathering Facts] **********************************************************   16:31:19
```

AWX | Jobs

ansible-ping/ping.yml at ma

Not secure | https://host209.virtual.lan/#/jobs

Personal   Sparksoft

AWX

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Jobs

		Name		Status	Type	Start Time	Finish Time	Actions
	Name ▾							1 - 1 of 1 ▾

		Name	Status	Type	Start Time	Finish Time	Actions
▸	☐	7 — Ping Managed Systems	✓ Successful	Playbook Run	3/15/2024, 4:34:12 PM	3/15/2024, 4:34:21 PM	✈

Delete   Cancel jobs

1 - 1 of 1 items ▾   « ‹ 1 of 1 page › »

Apache httpd Project

Same as before

AWX | Projects   tdcam/apache-install-rhel: A

github.com/tdcam/apache-install-rhel/tree/main

Personal   Sparksoft

tdcam / **apache-install-rhel**

Type / to search

<> Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

apache-install-rhel Public

Pin   Unwatch 1   Fork 0   Star 0

main   1 Branch   0 Tags

Go to file   t   Add file   <> Code

System Admin added apache.yml   341c484 · 1 minute ago   3 Commits

files   First commit   2 minutes ago

LICENSE   Initial commit   3 minutes ago

README.md   Initial commit   3 minutes ago

apache.yml   added apache.yml   1 minute ago

README   Apache-2.0 license

apache-install-rhel

A repository of Ansible playbooks to install Apache HTTPD

About

A repository of Ansible playbooks to install Apache HTTPD

Readme

Apache-2.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published
Create a new release

Packages

No packages published
Publish your first package

AWX | Projects

tdcam/apache-install-rhel: A

Not secure | https://host209.virtual.lan/#/projects/add

Personal   Sparksoft

AWX

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Projects

Create New Project

Name *

Thomas's Apache Installation

Description

Installing Apache HTTPD

Organization *

Sparksoft

Execution Environment (?)

Source Control Type *

Git

Content Signature Validation Credential (?)

Type Details

Source Control URL * (?)

git@github.com:tdcam/apache-install-rhel.git

Source Control Branch/Tag/Commit (?)

Source Control Refspec (?)

Source Control Credential

GitHub

Options

☐ Clean (?)   ☐ Delete (?)   ☐ Track submodules (?)   ☐ Update Revision on Launch (?)   ☐ Allow Branch Override (?)

Save   Cancel

AWX | Thomas's Apache Ins   tdcam/apache-install-rhel: A

Not secure | https://host209.virtual.lan/#/projects/11/details

Personal   Sparksoft

AWX

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Projects > Thomas's Apache Installation

Details

◀ Back to Projects   **Details**   Access   Job Templates   Notifications   Schedules

Last Job Status	✓ Successful	**Name**	Thomas's Apache Installation	**Description**	Installing Apache HTTPD
Organization	Sparksoft	**Source Control Type**	Git	**Source Control Revision**	341c484
Source Control URL ⓘ	git@github.com:tdcam/apache-install-rhel.git	**Source Control Credential**	Scm: GitHub	**Cache Timeout**	0 Seconds
Project Base Path ⓘ	/var/lib/awx/projects	**Playbook Directory** ⓘ	_11__thomass_apache_installation	**Created**	3/15/2024, 5:13:28 PM by admin
Last Modified	3/15/2024, 5:13:28 PM by admin				

Edit   Sync   Delete

Apache create inventory

Same as before

AWX

tdcam/apache-install-rhel: A

Not secure | https://host209.virtual.lan/#/inventories/inventory/add

Personal   Sparksoft

AWX

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Create new inventory

Name *

WordPress Web Servers

Description

Web servers in the WordPress Project

Organization *

🔍 Sparksoft

Instance Groups

🔍

Labels ⓘ

▾

Options

☐ Prevent Instance Group Fallback ⓘ

Variables ⓘ   YAML JSON

```
1   ---
```

Save   Cancel

AWX | WordPress Web Serv...   tdcam/apache-install-rhel: A...

Not secure | https://host209.virtual.lan/#/inventories/inventory/4/hosts

Personal   Sparksoft

AWX

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Inventories > WordPress Web Servers

Hosts

◀ Back to Inventories   Details   Access   Groups   **Hosts**   Sources   Jobs   Job Templates

☐ | Name ▾ | [search] | 🔍 | **Add** | Run Command | Delete |

No Hosts Found

Please add Hosts to populate this list

Apache create template

Same as before

AWX | Templates

tdcam/apache-install-rhel: A

Not secure | https://host209.virtual.lan/#/templates

Personal   Sparksoft

AWX

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Templates

		Name ⌄						1 - 2 of 2 ⌄		

Add ⌄ | Delete

	Name ↑	Type ↕	Organization ↕	Last Ran ↕		Actions
> ☐	**Demo Job Template**	Job Template	Default			🚀 ✏️ 📋
> ☐	**Ping Managed Systems**	Job Template	Sparksoft	3/15/2024, 5:31:57 PM		🚀 ✏️ 📋

1 - 2 of 2 items ⌄   1   of 1 page

AWX

tdcam/apache-install-rhel: A

Not secure https://host209.virtual.lan/#/templates/job_template/add

Personal Sparksoft

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Templates

Create New Job Template

Name *

Install Apache

Description

Install Apache for WordPress

Job Type * ☐ Prompt on launch

Run

Inventory * ☐ Prompt on launch

🔍 WordPress Web Servers

Project *

🔍 Thomas's Apache Installation

Execution Environment ☐ Prompt on launch

🔍

Playbook *

apache.yml

Credentials ☐ Prompt on launch

🔍 SSH: sysadmin's ssh k... ✕

Labels ☐ Prompt on launch

Variables [YAML] [JSON] ☐ Prompt on launch

```
1  - - -
2
```

Forks ☐ Prompt on launch

0

Limit ☐ Prompt on launch

Verbosity ☐ Prompt on launch

0 (Normal)

AWX

tdcam/apache-install-rhel: A

Not secure https://host209.virtual.lan/#/templates/job_template/add

Personal   Sparksoft

AWX

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Variables ⓘ   [YAML | JSON]   ☐ Prompt on launch

```
1  - - -
2
```

Forks ⓘ   ☐ Prompt on launch   Limit ⓘ   ☐ Prompt on launch   Verbosity ⓘ   ☐ Prompt on launch

0

0 (Normal)

Job Slicing ⓘ   ☐ Prompt on launch   Timeout ⓘ   ☐ Prompt on launch   Show Changes ⓘ   ☐ Prompt on launch

1

0

⬤ Off

Instance Groups ⓘ   ☐ Prompt on launch

🔍

Job Tags ⓘ   ☐ Prompt on launch

Skip Tags ⓘ   ☐ Prompt on launch

Options

☑ Privilege Escalation ⓘ   ☐ Provisioning Callbacks ⓘ   ☐ Enable Webhook ⓘ   ☑ Concurrent Jobs ⓘ   ☑ Enable Fact Storage ⓘ   ☐ Prevent Instance Group Fallback ⓘ

Save   Cancel

AWX | Templates

host120.vitual.lan

Not secure | https://host209.virtual.lan/#/templates

Personal   Sparksoft

AWX

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		Name	Add	Delete					1 - 3 of 3		

		Name ↑	Type ↕	Organization ↕	Last Ran ↕			Actions
>	☐	**Demo Job Template**	Job Template	Default				
>	☐	**Install Apache**	Job Template	Sparksoft	3/15/2024, 5:48:18 PM			
>	☐	**Ping Managed Systems**	Job Template	Sparksoft	3/15/2024, 5:31:57 PM			

1 - 3 of 3 items   1   of 1 page

Apache installation

Same as before

AWX | Templates

tdcam/apache-install-rhel:

Not secure | https://host209.virtual.lan/#/templates

Personal   Sparksoft

Templates

		Name							1 – 3 of 3		

Add   Delete

Name ↑	Type ↕	Organization ↕	Last Ran ↕	Actions
Demo Job Template	Job Template	Default		
Install Apache	Job Template	Sparksoft	3/15/2024, 6:01:44 PM	
Ping Managed Systems	Job Template	Sparksoft	3/15/2024, 5:31:57 PM	

1 – 3 of 3 items ▾   1   of 1 page

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AWX | Install Apache

tdcam/apache-install-rhel: A

Not secure https://host209.virtual.lan/#/templates/job_template/12/details

Personal   Sparksoft

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Templates > Install Apache

Details

◄ Back to Templates   **Details**   Access   Notifications   Schedules   Jobs   Survey

Name	Install Apache	**Description**	Install Apache for WordPress	**Job Type**	run
Organization	Sparksoft	**Inventory**	WordPress Web Servers	**Project**	Thomas's Apache Installation
Execution Environment	AWX EE (latest)	**Playbook**	apache.yml	**Forks**	0
Verbosity	0 (Normal)	**Timeout**	0	**Show Changes**	Off
Job Slicing	1	**Created**	3/15/2024, 5:44:58 PM by admin	**Last Modified**	3/15/2024, 6:07:57 PM by admin

Enabled Options
Privilege Escalation
Concurrent Jobs
Fact Storage

Credentials
SSH: sysadmin's ssh k...

Variables   YAML JSON

```
1  ---
```

Edit   Launch   Delete

AWX

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Jobs > 20 - Install Apache

Output

◀ Back to Jobs   Details   Output

Install Apache ✔ Successful   Plays 1   Tasks 6   Hosts 1   Elapsed 00:00:13

Stdout ▾

```
  0   Identity added: /runner/artifacts/20/ssh_key_data (sysadmin@p16s.sparksoftcorp.io)
  1  SSH password:
  2
  3  PLAY [Install Apache HTTPD] *******************************************************    18:08:33
  4
  5  TASK [Gathering Facts] ***********************************************************    18:08:33
  6  ok: [host183.virtual.lan]
  7
  8  TASK [install httpd] *************************************************************    18:08:35
  9  changed: [host183.virtual.lan]
 10
 11  TASK [deploy index.html] ********************************************************    18:08:38
 12  ok: [host183.virtual.lan]
 13
 14  TASK [start httpd] **************************************************************    18:08:39
 15  changed: [host183.virtual.lan]
 16
 17  TASK [open firewall port 80] ***************************************************    18:08:41
 18  changed: [host183.virtual.lan]
 19
 20  TASK [open firewall port 443] **************************************************    18:08:42
 21  changed: [host183.virtual.lan]
 22
 23  PLAY RECAP *********************************************************************    18:08:43
 24  host183.virtual.lan        : ok=6    changed=4    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Successfully deployed!

Apache removal

Doesn't hurt to reverse the process

AWX | 21 - Install Apache

apache-install-rhel/remove-

github.com/tdcam/apache-install-rhel/blob/main/remove-apache.yml

Personal   Sparksoft

Files

main

Go to file

> files

LICENSE

README.md

apache.yml

remove-apache.yml

apache-install-rhel / **remove-apache.yml**

System Admin added remove playbook

9d3b8dc · 11 minutes ago   History

Code   Blame   23 lines (23 loc) · 555 Bytes   Code 55% faster with GitHub Copilot

Raw

```yaml
 1   ---
 2   - name: Tear Web Environment Down
 3     hosts: all
 4     tasks:
 5       - name: remove httpd and related files
 6         ansible.builtin.dnf:
 7           name:
 8             - httpd
 9             - mod_ssl
10           autoremove: true
11           state: absent
12       - name: remove firewall rules 80
13         ansible.posix.firewalld:
14           service: http
15           state: disabled
16           immediate: true
17           permanent: true
18       - name: remove firewall rules 443
19         ansible.posix.firewalld:
20           service: https
21           state: disabled
22           immediate: true
23           permanent: true
```

Personal   Sparksoft

AWX

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		Name ⌄		Add ⌄	Delete		1 - 3 of 3 ⌄

		Name ↑	Type ⇅	Organization ⇅	Last Ran ⇅		Actions
›	☐	**Demo Job Template**	Job Template	Default			
›	☐	**Install Apache**	Job Template	Sparksoft	3/15/2024, 6:08:43 PM		
›	☐	**Ping Managed Systems**	Job Template	Sparksoft	3/15/2024, 5:31:57 PM		

1 - 3 of 3 items ⌄   « ‹   1   of 1 page   › »

AWX | Install Apache

tdcam/apache-install-rhel: A

Not secure | https://host209.virtual.lan/#/templates/job_template/12/edit

Personal   Sparksoft

AWX

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Templates > Install Apache

Edit Details

Name *

Install Apache

Inventory *

🔍 WordPress Web Servers

Playbook *

apache.yml

| apache.yml | ✓ |
| remove-apache.yml | |

Labels

Variables   YAML JSON

```
1   ---
```

Forks   ☐ Prompt on launch

0

Description

Install Apache for WordPress

☐ Prompt on launch

Project *

🔍 Thomas's Apache Installation

Limit   ☐ Prompt on launch

Job Type *   ☐ Prompt on launch

Run

Execution Environment   ☐ Prompt on launch

🔍

☐ Prompt on launch

☐ Prompt on launch

☐ Prompt on launch

Verbosity   ☐ Prompt on launch

0 (Normal)

AWX | Install Apache   tdcam/apache-install-rhel: A

Not secure https://host209.virtual.lan/#/templates/job_template/12/details

📁 Personal   📁 Sparksoft

AWX

🔔   ❓ ▾   👤 admin ▾

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Templates > Install Apache

Details

◀ Back to Templates   **Details**   Access   Notifications   Schedules   Jobs   Survey

Name Install Apache	**Description** Install Apache for WordPress	**Job Type** ⓘ run
Organization Sparksoft	**Inventory** ⓘ WordPress Web Servers	**Project** ⓘ Thomas's Apache Installation
Execution Environment ⓘ AWX EE (latest)	**Playbook** ⓘ remove-apache.yml	**Forks** ⓘ 0
Verbosity ⓘ 0 (Normal)	**Timeout** ⓘ 0	**Show Changes** ⓘ Off
Job Slicing ⓘ 1	**Created** 3/15/2024, 5:44:58 PM by admin	**Last Modified** 3/15/2024, 6:10:28 PM by admin

Enabled Options ⓘ   Privilege Escalation
Concurrent Jobs
Fact Storage

Credentials ⓘ   SSH: sysadmin's ssh k...

Variables ⓘ   [YAML | JSON]

```
1  - - -
```

Edit   Launch   Delete

AWX | 21 - Install Apache

tdcam/apache-install-rhel: A

Personal   Sparksoft

AWX

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Jobs > 21 - Install Apache

Output

‹ Back to Jobs   Details   Output

Install Apache   ✓ Successful   Plays 1   Tasks 4   Hosts 1   Elapsed 00:00:11

Stdout ▾

```
     0   Identity added: /runner/artifacts/21/ssh_key_data (sysadmin@p16s.sparksoftcorp.io)
     1   SSH password:
     2
     3   PLAY [Tear Web Environment Down] ***********************************************   18:10:49
     4
     5   TASK [Gathering Facts] ********************************************************   18:10:49
     6   ok: [host183.virtual.lan]
     7
     8   TASK [remove httpd and related files] *****************************************   18:10:51
     9   changed: [host183.virtual.lan]
    10
    11   TASK [remove firewall rules 80] **********************************************   18:10:54
    12   changed: [host183.virtual.lan]
    13
    14   TASK [remove firewall rules 443] *********************************************   18:10:55
    15   changed: [host183.virtual.lan]
    16
    17   PLAY RECAP ********************************************************************   18:10:56
    18   host183.virtual.lan          : ok=4    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

AWX | 21 - Install Apache

tdcam/apache-install-rhel: A

host183.virtual.lan

host183.virtual.lan/

Personal   Sparksoft

This site can't be reached

http://host183.virtual.lan/ is unreachable.

ERR_ADDRESS_UNREACHABLE

Reload

MariaDB Project

For the database tier

Personal   Sparksoft

tdcam / **mariadb-install-rhel**

Type / to search

`<>` Code   Issues   Pull requests   Actions   Projects   Wiki   Security   Insights   Settings

mariadb-install-rhel   Public

Pin   Unwatch 1   Fork 0   Star 0

main   1 Branch   0 Tags   Go to file   t   Add file   `<>` Code

Local   Codespaces

System Admin added removing wordpress to the yml

`>_` Clone   (?)

LICENSE   Initial commit

HTTPS   **SSH**   GitHub CLI

README.md   Initial commit

git@github.com:tdcam/mariadb-install-rhel.g   [copy]

mariadb.yml   Added mariadb a

Use a password-protected SSH key.

remove.yml   added removing w

README   Apache-2.0 license

Download ZIP

mariadb-install-rhel

Ansible playbooks to install and remove MariaDB

About

Ansible playbooks to install and remove MariaDB

Readme

Apache-2.0 license

Activity

0 stars

1 watching

0 forks

Releases

No releases published
Create a new release

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No packages published
Publish your first package

AWX | Projects

tdcam/mariadb-install-rhel

Not secure https://host209.virtual.lan/#/projects/add

Personal   Sparksoft

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Create New Project

Name *

Thomas's MariaDB Installation

Description

Installing MariaDB

Organization *

Sparksoft

Execution Environment ⓘ

Source Control Type *

Git

Content Signature Validation Credential ⓘ

Type Details

Source Control URL * ⓘ

git@github.com:tdcam/mariadb-install-rhel.git

Source Control Branch/Tag/Commit ⓘ

Source Control Refspec ⓘ

Source Control Credential

GitHub

Options

☐ Clean ⓘ   ☐ Delete ⓘ   ☐ Track submodules ⓘ   ☐ Update Revision on Launch ⓘ   ☐ Allow Branch Override ⓘ

Save   Cancel

AWX | Thomas's MariaDB In...   tdcam/mariadb-install-rhel...

Not secure | https://host209.virtual.lan/#/projects/13/details

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Projects > Thomas's MariaDB Installation

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Last Job Status	🔄 Running	
Name	Thomas's MariaDB Installation	
Description	Installing MariaDB	
Organization	Sparksoft	
Source Control Type	Git	
Source Control Revision	Sync for revision	
Source Control URL ⓘ	git@github.com:tdcam/mariadb-install-rhel.git	
Source Control Credential	Scm: GitHub	
Cache Timeout	0 Seconds	
Project Base Path ⓘ	/var/lib/awx/projects	
Playbook Directory ⓘ	_13__thomass_mariadb_installation	
Created	3/15/2024, 6:44:04 PM by admin	
Last Modified	3/15/2024, 6:44:04 PM by admin	

Edit   Cancel Sync   Delete

AWX | Projects

tdcam/mariadb-install-rhel

Not secure | https://host209.virtual.lan/#/projects

Personal   Sparksoft

AWX

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	Name ⌄				1 - 4 of 4 ⌄
			Add	Delete	

	Name ↑	Status	Type	Revision	Actions
>	**Demo Project**	✓ Successful	Git	347e44f	⟳ ✎ ⧉
>	**Thomas's Ansible Ping**	✓ Successful	Git	beac496	⟳ ✎ ⧉
>	**Thomas's Apache Installation**	✓ Successful	Git	9d3b8dc	⟳ ✎ ⧉
>	**Thomas's MariaDB Installation**	✓ Successful	Git	a0c1ca3	⟳ ✎ ⧉

1 - 4 of 4 items ⌄   1   of 1 page

MariaDB Project

For the database tier

AWX | Inventories ✕ | apache-install-rhel/remove- ✕ | +

Not secure https://host209.virtual.lan/#/inventories

📁 Personal   📁 Sparksoft

AWX

🔔   ❓ ⌄   👤 admin ⌄

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Inventories

↺

| | Name ⌄ | 🔍 | Add ⌄ | Delete | | 1 - 3 of 3 ⌄ ‹ › |

	Name ↑	Sync Status	Type	Organization	Actions
☐	**Demo Inventory**	⊖ Disabled	Inventory	Default	✏️ 📋
☐	**WordPress Servers**	⊖ Disabled	Inventory	Sparksoft	✏️ 📋
☐	**WordPress Web Servers**	⊖ Disabled	Inventory	Sparksoft	✏️ 📋

1 - 3 of 3 items ⌄   « ‹ 1 of 1 page › »

AWX ✕ | apache-install-rhel/remove- ✕ | +

Not secure | https://host209.virtual.lan/#/inventories/inventory/add

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Inventories

Create new inventory

Name *

WordPress DB Servers

Description

Servers running MariaDB for WordPress

Organization *

🔍 Sparksoft

Instance Groups

🔍

Labels ?

▾

Options

☐ Prevent Instance Group Fallback ?

Variables ?   YAML | JSON

```
1   - - -
```

Save   Cancel

AWX | WordPress DB Server   AWX | Inventories   tdcam/mariadb-install-rhel:

Not secure | https://host209.virtual.lan/#/inventories/inventory/5/details

Personal   Sparksoft

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Inventories > WordPress DB Servers

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Name	WordPress DB Servers	**Description**	Servers running MariaDB for WordPress	**Type**	Inventory
Organization	Sparksoft	**Total hosts**	0		

Variables ⓘ [YAML] [JSON]

```
1  - - -
```

Created   3/15/2024, 6:49:06 PM by admin

Last Modified   3/15/2024, 6:49:06 PM by admin

[Edit] [Delete]

AWX | WordPress DB Server

AWX | Inventories

tdcam/mariadb-install-rhel

Not secure | https://host209.virtual.lan/#/inventories/inventory/5/hosts

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Inventories > WordPress DB Servers

Hosts

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Name ▾   🔍   Add   Run Command   Delete

No Hosts Found

Please add Hosts to populate this list

AWX | Hosts   ×   AWX | Inventories   ×   tdcam/mariadb-install-rhel: ×   +

Not secure | https://host209.virtual.lan/#/inventories/inventory/5/hosts/add

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Inventories > WordPress DB Servers > Hosts

Create new host

Name *

host120.virtual.lan

Description

Variables   `YAML` `JSON`

```
1  - - -
2
```

Save   Cancel

MariaDB template

As we discussed before

AWX | Templates

tdcam/mariadb-install-rhel

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Templates

| | | Name | | Add | Delete | | | 1 - 3 of 3 |

		Name ↑	Type ↕	Organization ↕	Last Ran ↕	Actions
>	☐	**Demo Job Template**	Job Template	Default		
>	☐	**Install Apache**	Job Template	Sparksoft	3/15/2024, 6:10:57 PM	
>	☐	**Ping Managed Systems**	Job Template	Sparksoft	3/15/2024, 5:31:57 PM	

1 - 3 of 3 items | 1 of 1 page

AWX ✕ | tdcam/mariadb-install-rhel ✕ | +

← → ↻ ⌂ | 🛇 Not secure | https://host209.virtual.lan/#/templates/job_template/add

📁 Personal 📁 Sparksoft

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Create New Job Template

↺

Name *
```
Install MariaDB
```

Description
```

```

Job Type * ❓   ☐ Prompt on launch
```
Run                           ▾
```

Inventory * ❓   ☐ Prompt on launch
```
🔍   WordPress DB Servers
```

Project * ❓
```
🔍   Thomas's MariaDB Installation
```

Execution Environment ❓   ☐ Prompt on launch
```
🔍
```

Playbook * ❓
```
mariadb.yml                    ▾
```

Credentials ❓   ☐ Prompt on launch
```
🔍   SSH: sysadmin's ssh k...  ✕
```

Labels ❓   ☐ Prompt on launch
```
                               ▾
```

Variables ❓   [YAML] [JSON]   ☐ Prompt on launch   ⤢
```
1  - - -
2
```

Forks ❓   ☐ Prompt on launch
```
0
```

Limit ❓   ☐ Prompt on launch
```

```

Verbosity ❓   ☐ Prompt on launch
```
0 (Normal)                     ▾
```

Not secure | https://host209.virtual.lan/#/templates/job_template/14/details

Personal   Sparksoft

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Templates > Install MariaDB

Details

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Name	Install MariaDB	**Job Type** ⓘ	run	**Organization**	Sparksoft
Inventory ⓘ	WordPress DB Servers	**Project** ⓘ	Thomas's MariaDB Installation	**Execution Environment** ⓘ	AWX EE (latest)
Playbook ⓘ	mariadb.yml	**Forks** ⓘ	0	**Verbosity** ⓘ	0 (Normal)
Timeout ⓘ	0	**Show Changes** ⓘ	Off	**Job Slicing** ⓘ	1
Created	3/15/2024, 6:54:48 PM by admin	**Last Modified**	3/15/2024, 6:54:48 PM by admin		

Enabled Options ⓘ   Privilege Escalation
Concurrent Jobs
Fact Storage

Credentials ⓘ   [SSH: sysadmin's ssh k...]

Variables ⓘ   [YAML] [JSON]

```
1  - - -
```

[Edit]   [Launch]   [Delete]

AWX | 25 - Install MariaDB

tdcam/mariadb-install-rhel

Not secure | https://host209.virtual.lan/#/jobs/playbook/25/output

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Jobs > 25 - Install MariaDB

Output

◀ Back to Jobs   Details   Output

Install MariaDB   ✓ Successful

Plays 1   Tasks 4   Hosts 1   Elapsed 00:01:22

Stdout ▾

```
 0   Identity added: /runner/artifacts/25/ssh_key_data (sysadmin@p16s.sparksoftcorp.io)
 1   SSH password:
 2
 3   PLAY [Install MariaDB] ******************************************   18:56:59
 4
 5   TASK [Gathering Facts] ******************************************   18:56:59
 6   ok: [host120.virtual.lan]
 7
 8   TASK [install MariaDB Server] ***********************************   18:57:01
 9   changed: [host120.virtual.lan]
10
11   TASK [start MariaDB] ********************************************   18:58:12
12   changed: [host120.virtual.lan]
13
14   TASK [open port 3306] ******************************************   18:58:16
15   changed: [host120.virtual.lan]
16
17   PLAY RECAP *****************************************************   18:58:17
18   host120.virtual.lan         : ok=4    changed=3    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0
```

Live demo

What does this look like in real life?

Questions?

- The floor is open!

Thank you very much!

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