Sparksoft

Enterprise Automation with AWX

Thomas Cameron

- Red Hat Practice Lead
- Sparksoft Corporation

Test Automation

DevSecOps Delivery

Data Science

Contact Center Operations

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 (time permitting)

Introduction

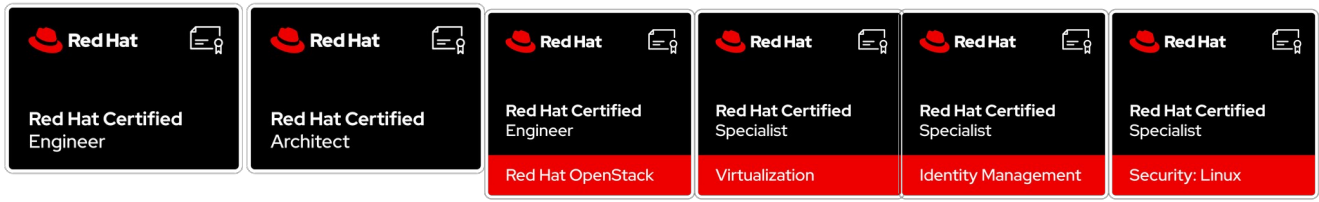
Who am I?

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

YOU REALLY DON'T GET OUT MUCH
DO YOU?
imgflip.com

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

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]

- 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

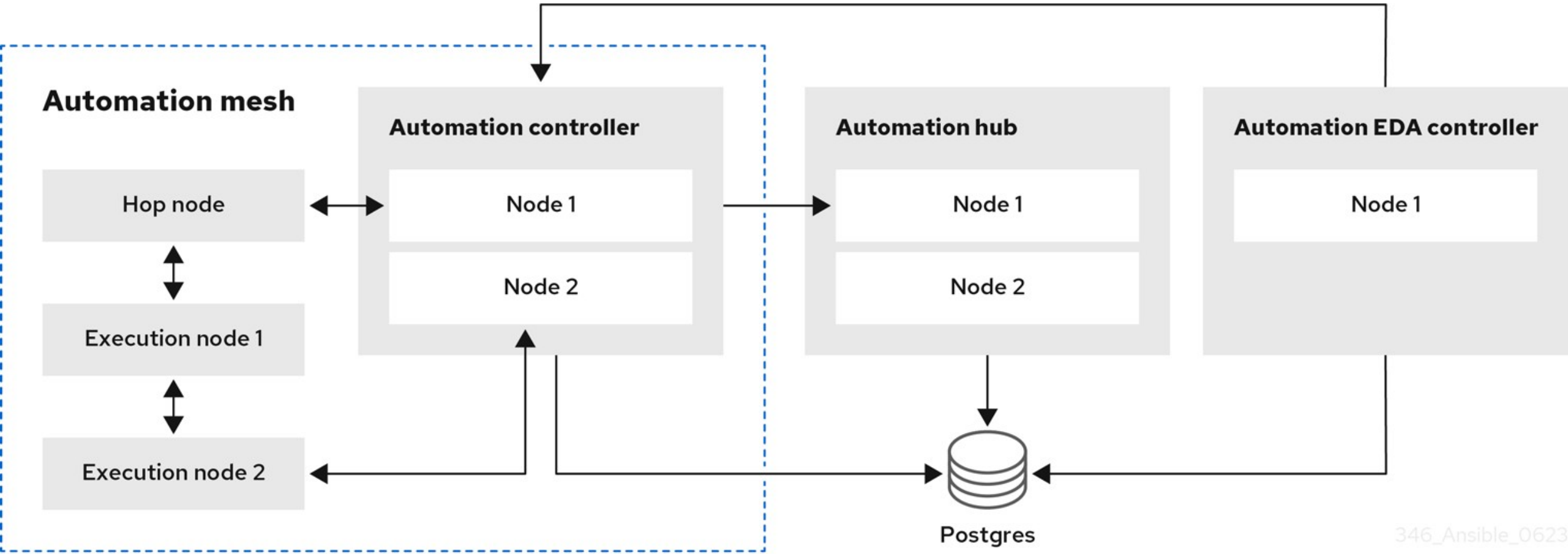
[1] https://www.ansible.com/faq

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

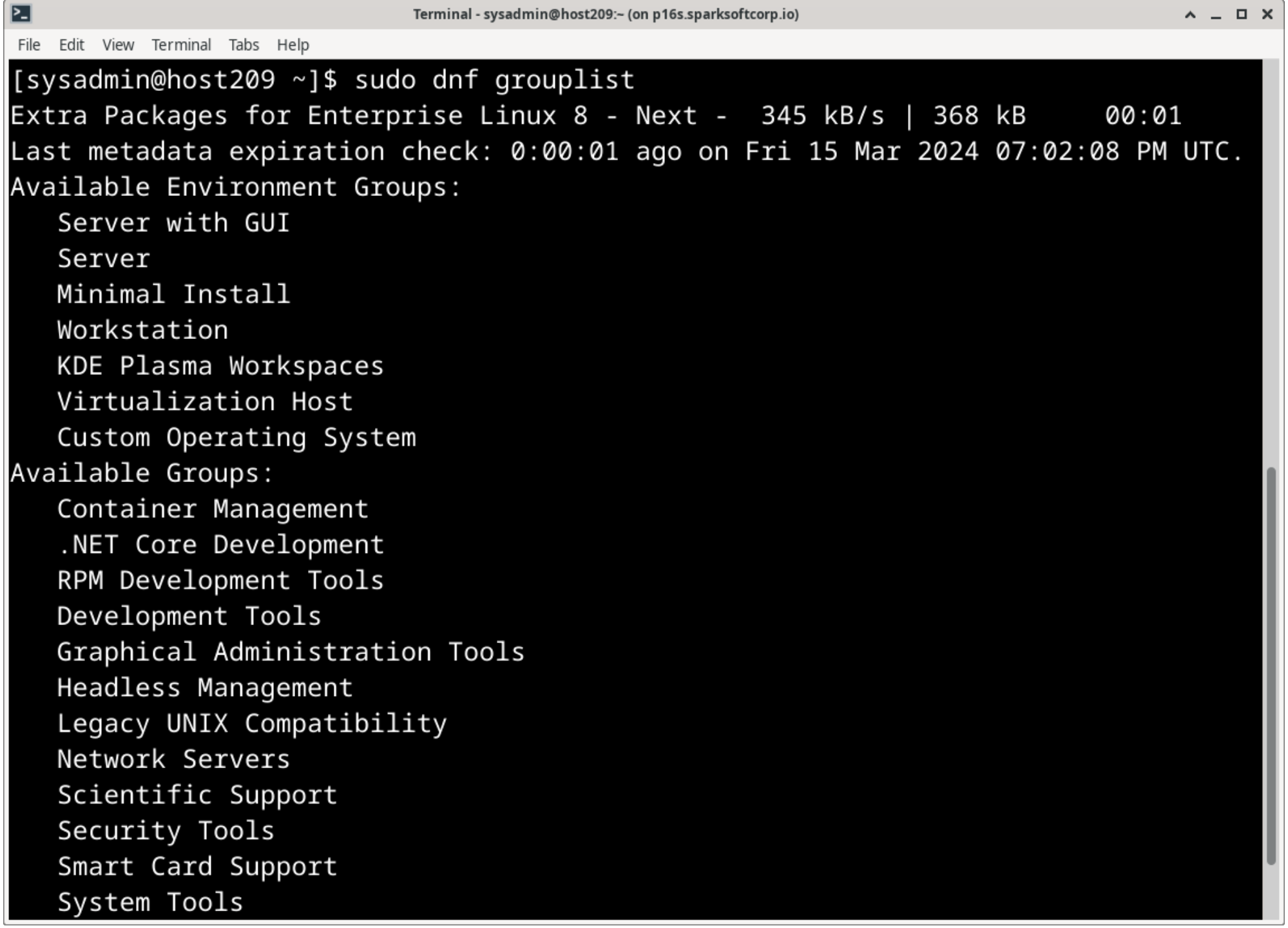
- I fought with AWX for WEEKS.
- Several resources indicate that it can be run on Fedora, RHEL/CentOS 8, and RHEL/CentOS 9.
- I was unable to get it to run on anything but RHEL8/CentOS Stream 8.

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

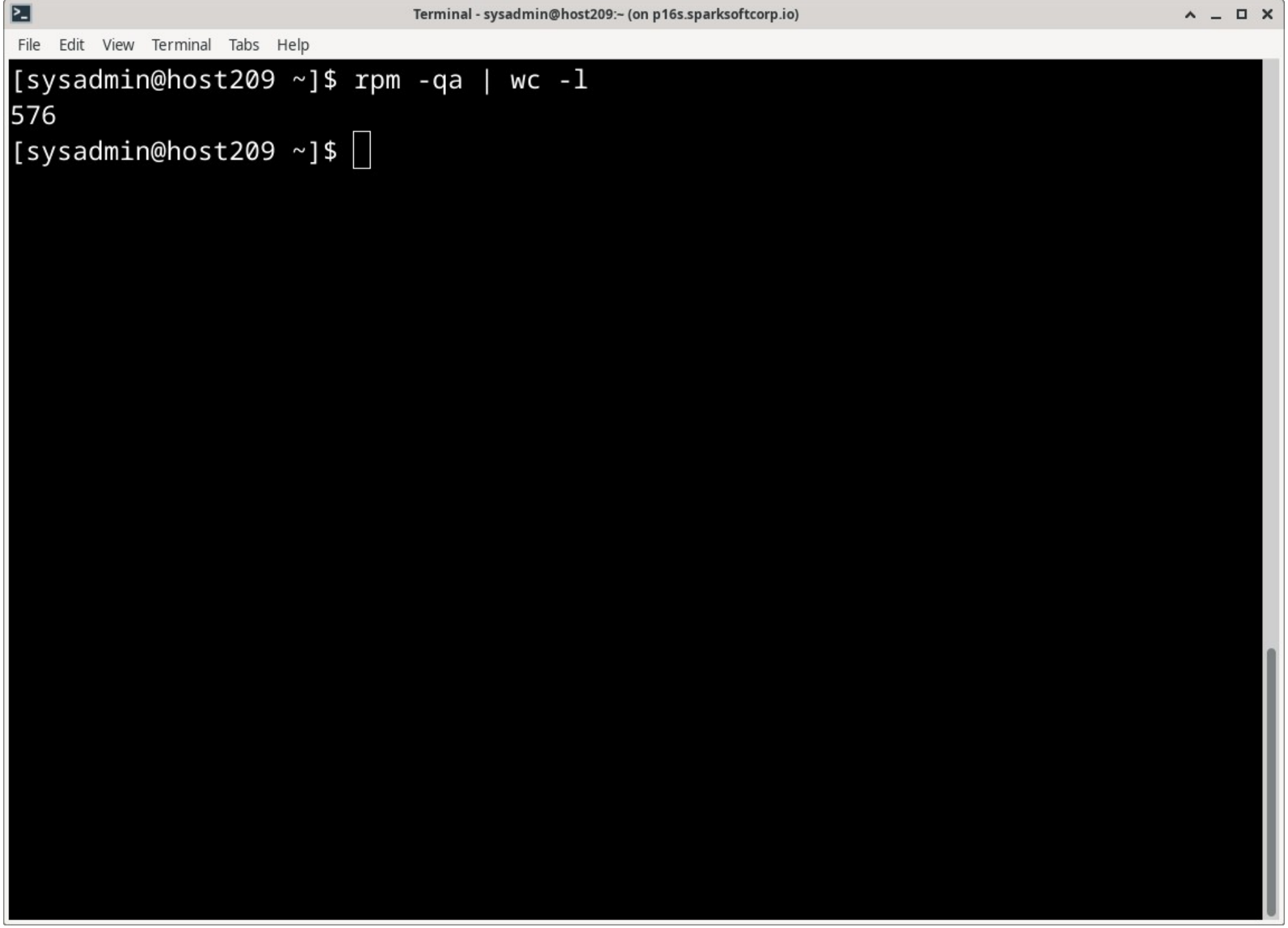
- I used a minimal installation of CentOS Stream


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

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

File Edit View Terminal Tabs Help

```
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 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

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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

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

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.

Readme

MIT license

Activity

449 stars

25 watching

120 forks

Report repository

Releases

54 tags

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
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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

Languages

- **Dockerfile** 100.0%

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
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README MIT license

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

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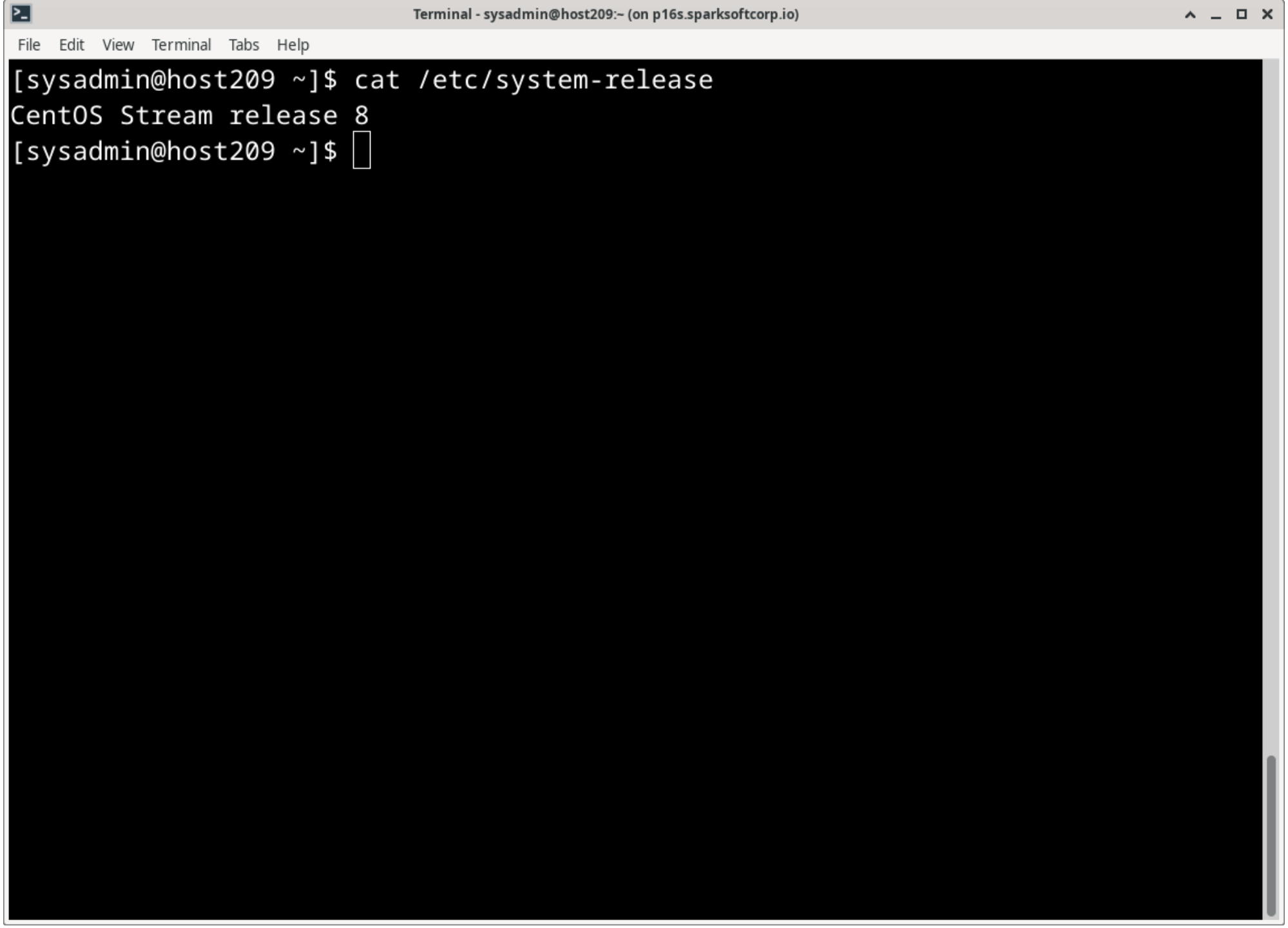
Requirements

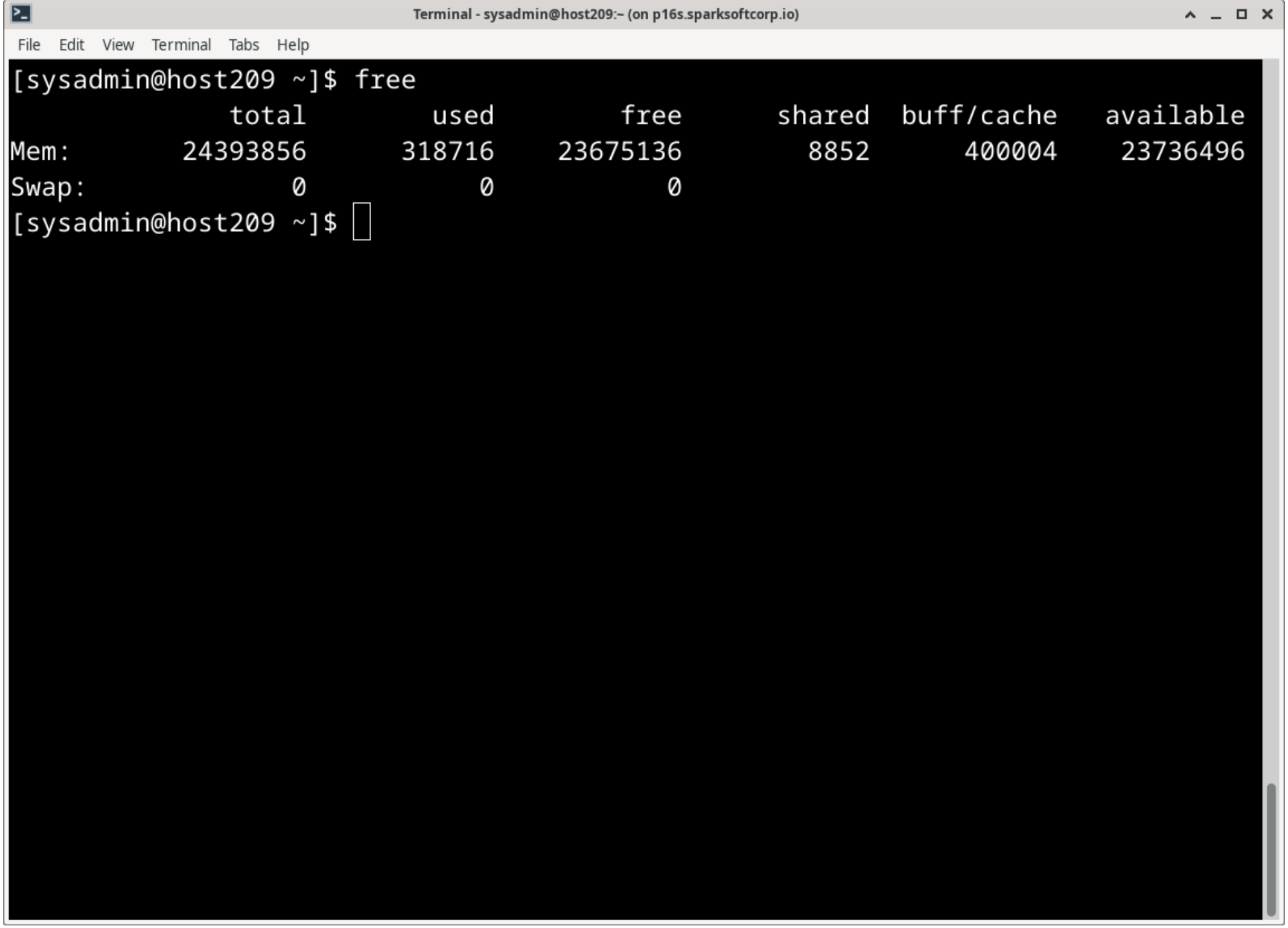
- **Computing resources**
  - **2 CPUs with x86-64-v2 support**.
  - **4 GiB RAM minimum**
  - It's recommended to add more CPUs and RAM (like 4 CPUs and 8 GiB RAM or more) to avoid performance issue and job scheduling issue.
  - The files in this repository are configured to ignore resource requirements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

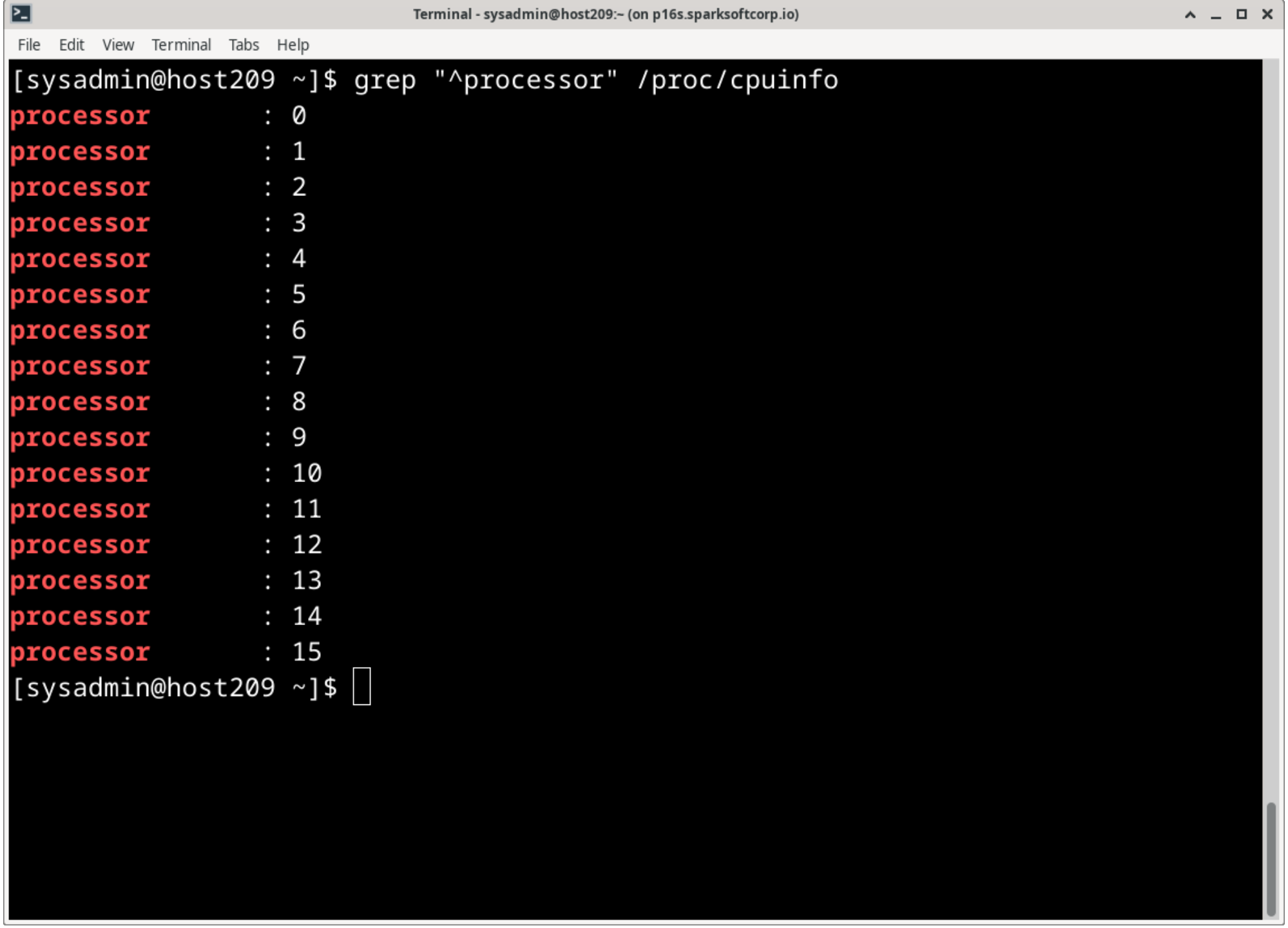
Deployment Instruction

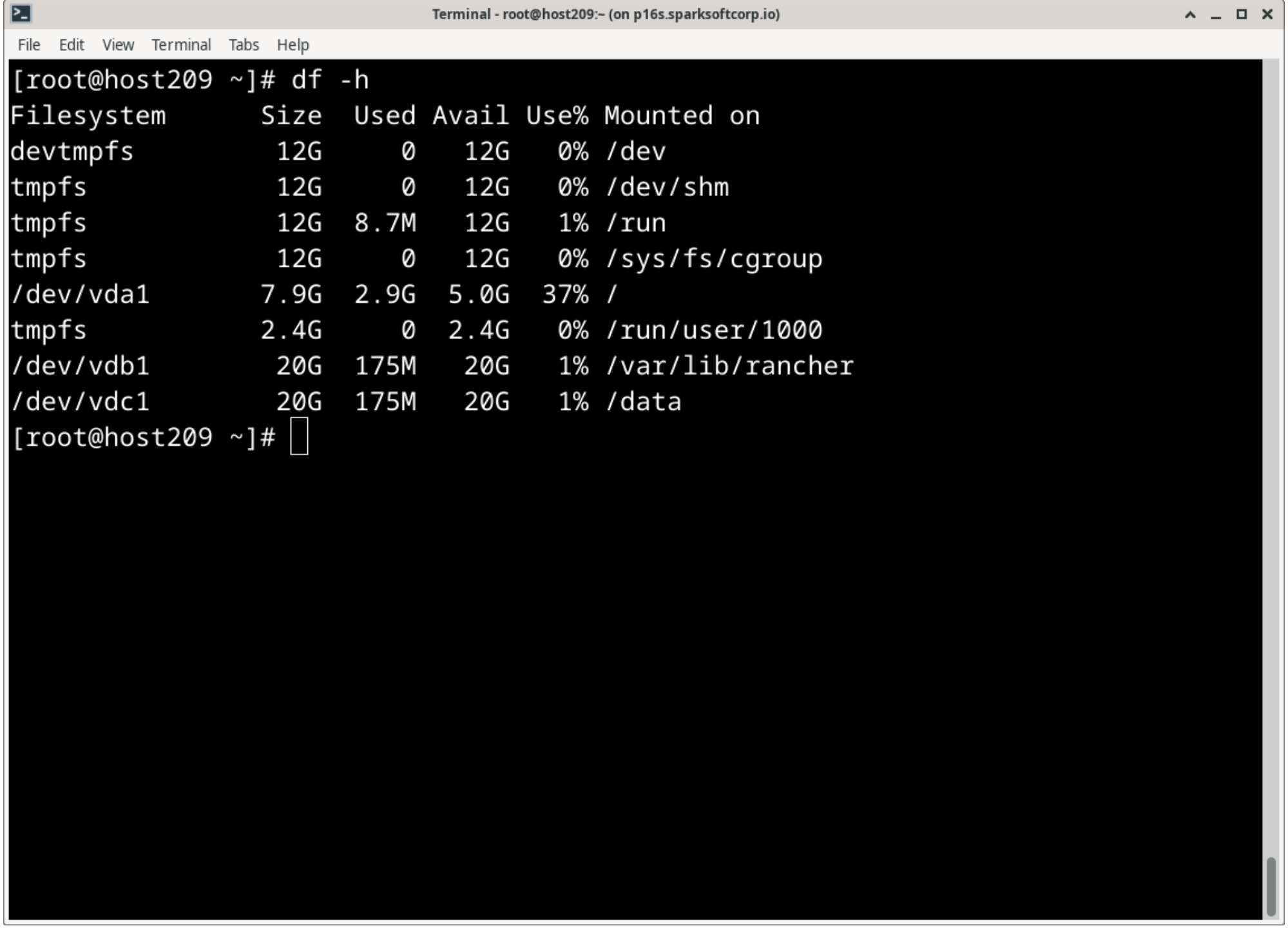
Prepare CentOS Stream 8 host

Disable firewalld and nm-cloud-setup if enabled. This is recommended by K3s.


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 ~]$


Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 ~]$ free
total used free shared buff/cache available
Mem: 24393856 318716 23675136 8852 400004 23736496
Swap: 0 0 0
[sysadmin@host209 ~]$


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


Terminal - root@host209:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[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 ~]#

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
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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.

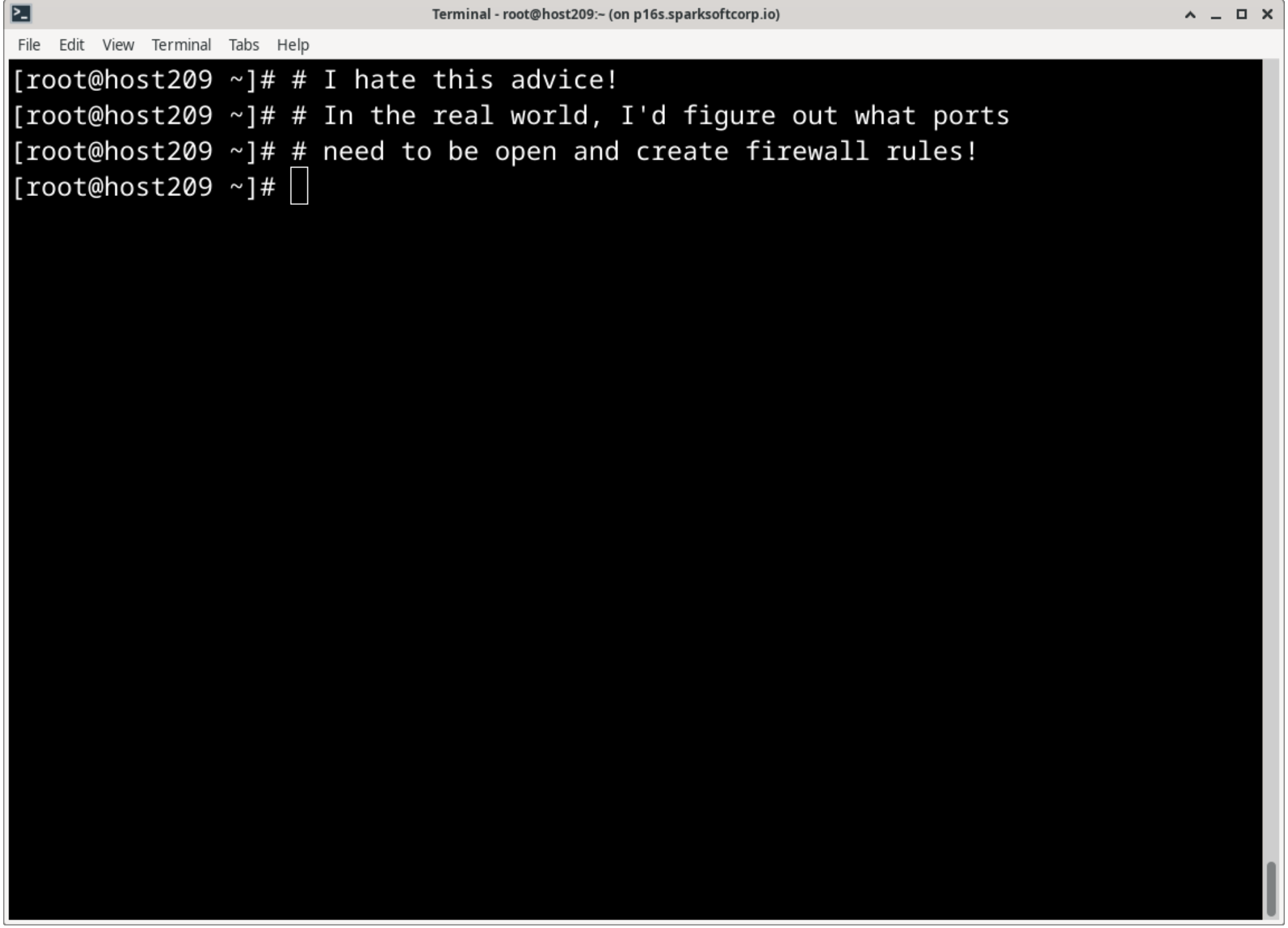
```
sudo dnf install -y git curl
```

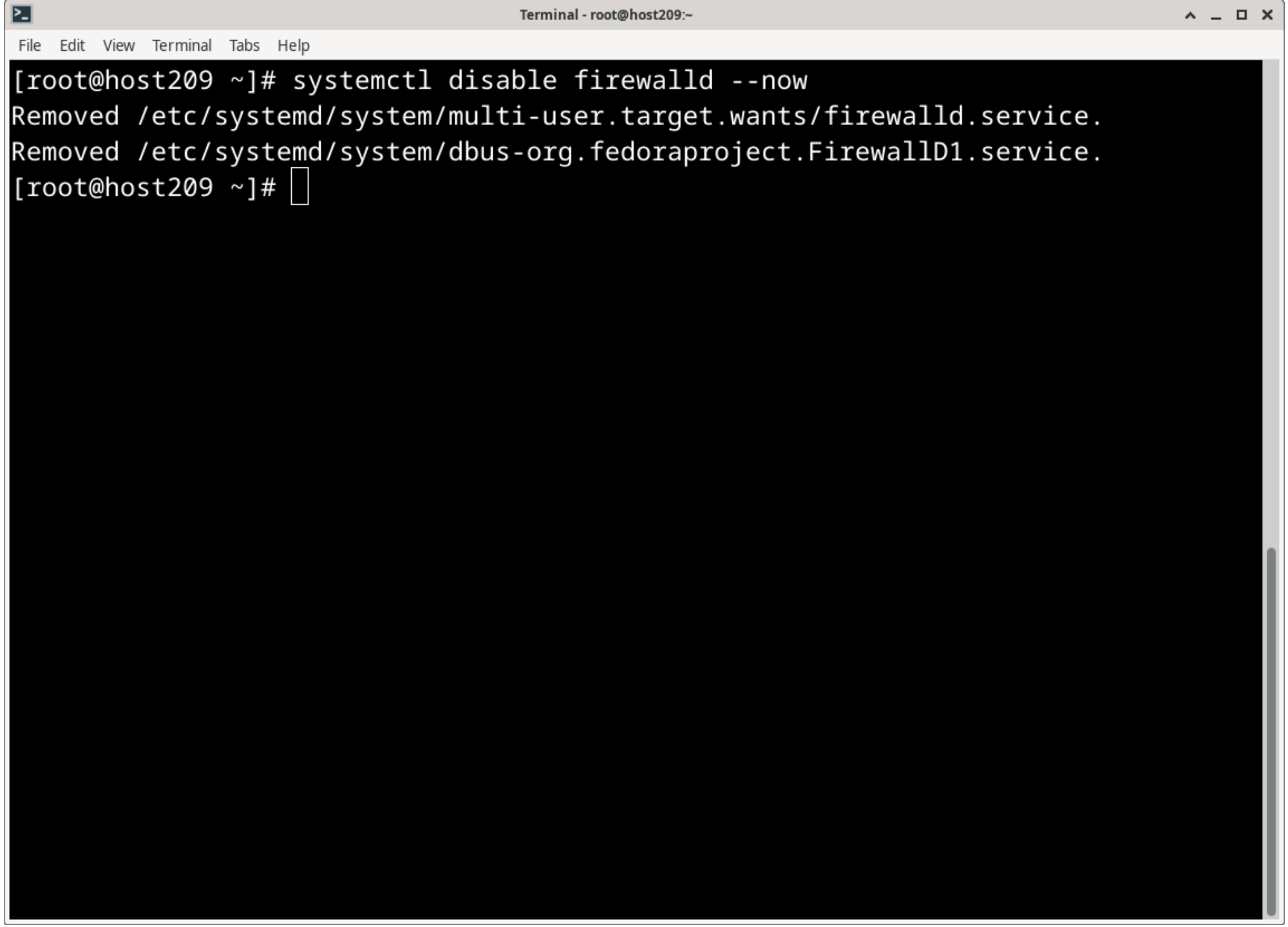
Install K3s

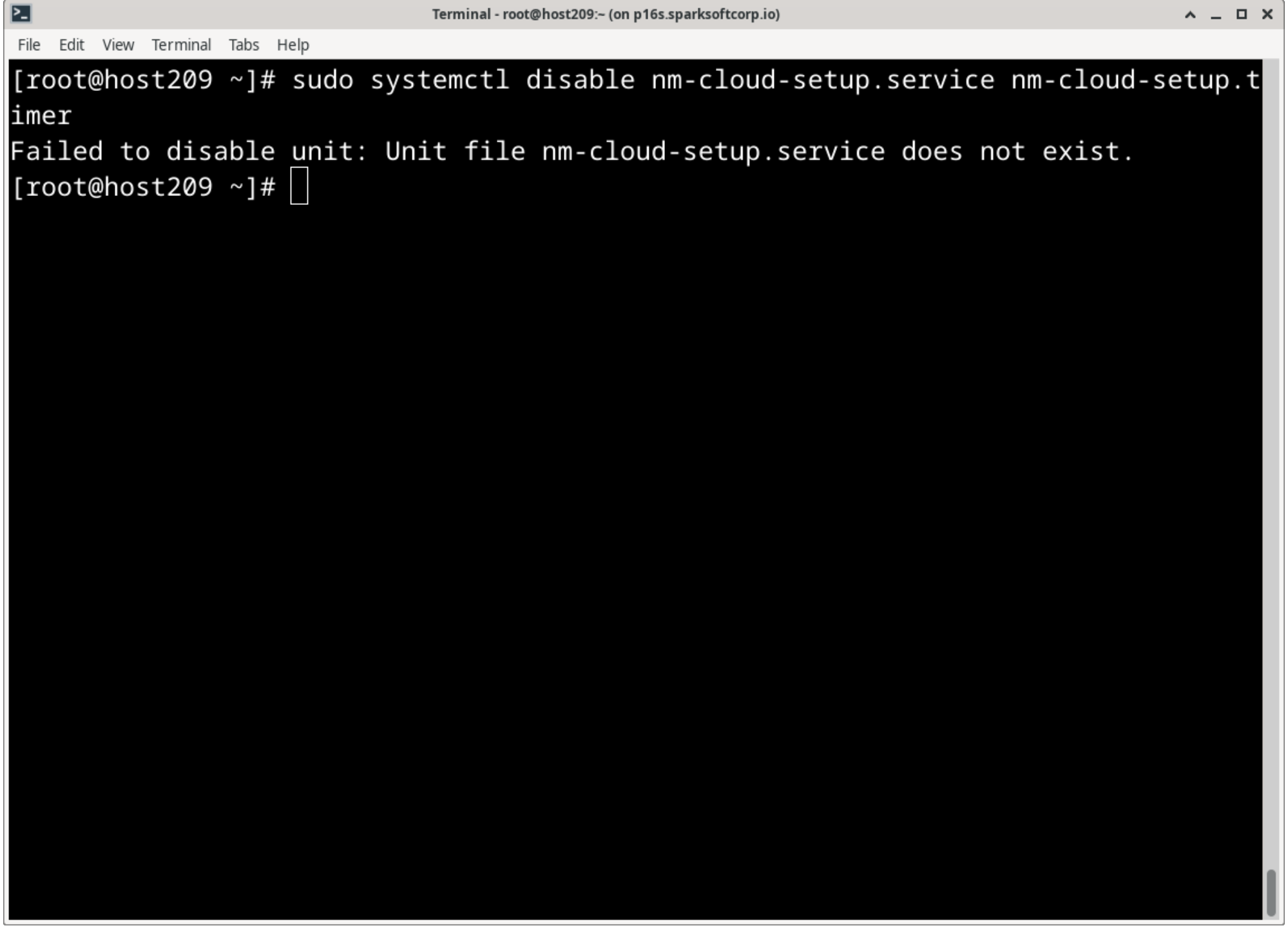
Install a specific version of K3s with `--write-kubeconfig-mode 644` to make the config file (`/etc/rancher/k3s/k3s.yaml`) readable by non-root users.

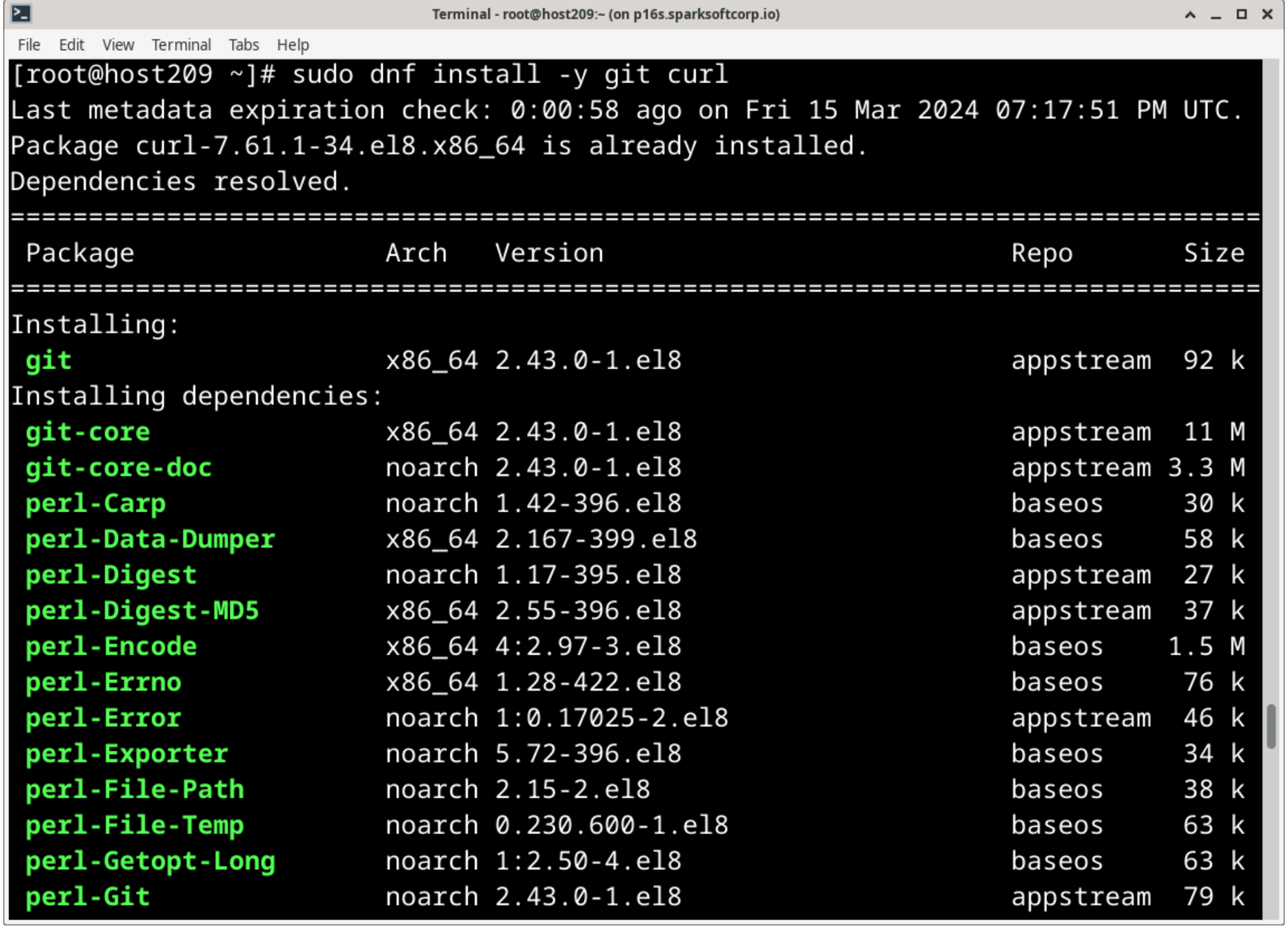
```
curl -sfL https://get.k3s.io | INSTALL_K3S_VERSION=v1.28.6+k3s2 sh -s - --write-kubeconfig-mo
```

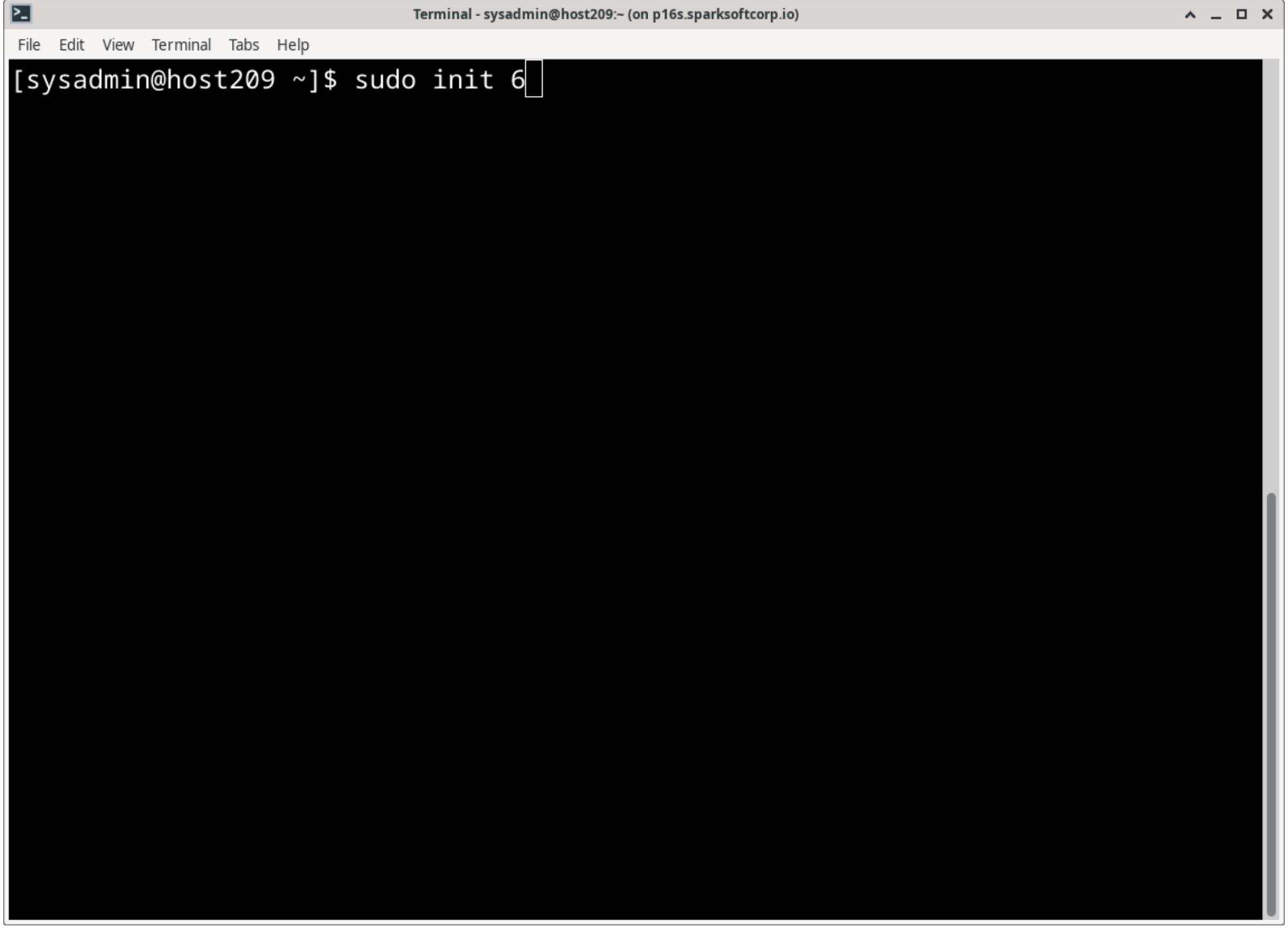
Install AWX Operator


Terminal - root@host209:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[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 ~]#


Terminal - root@host209:~
File Edit View Terminal Tabs Help
[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 ~]#


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


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

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
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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

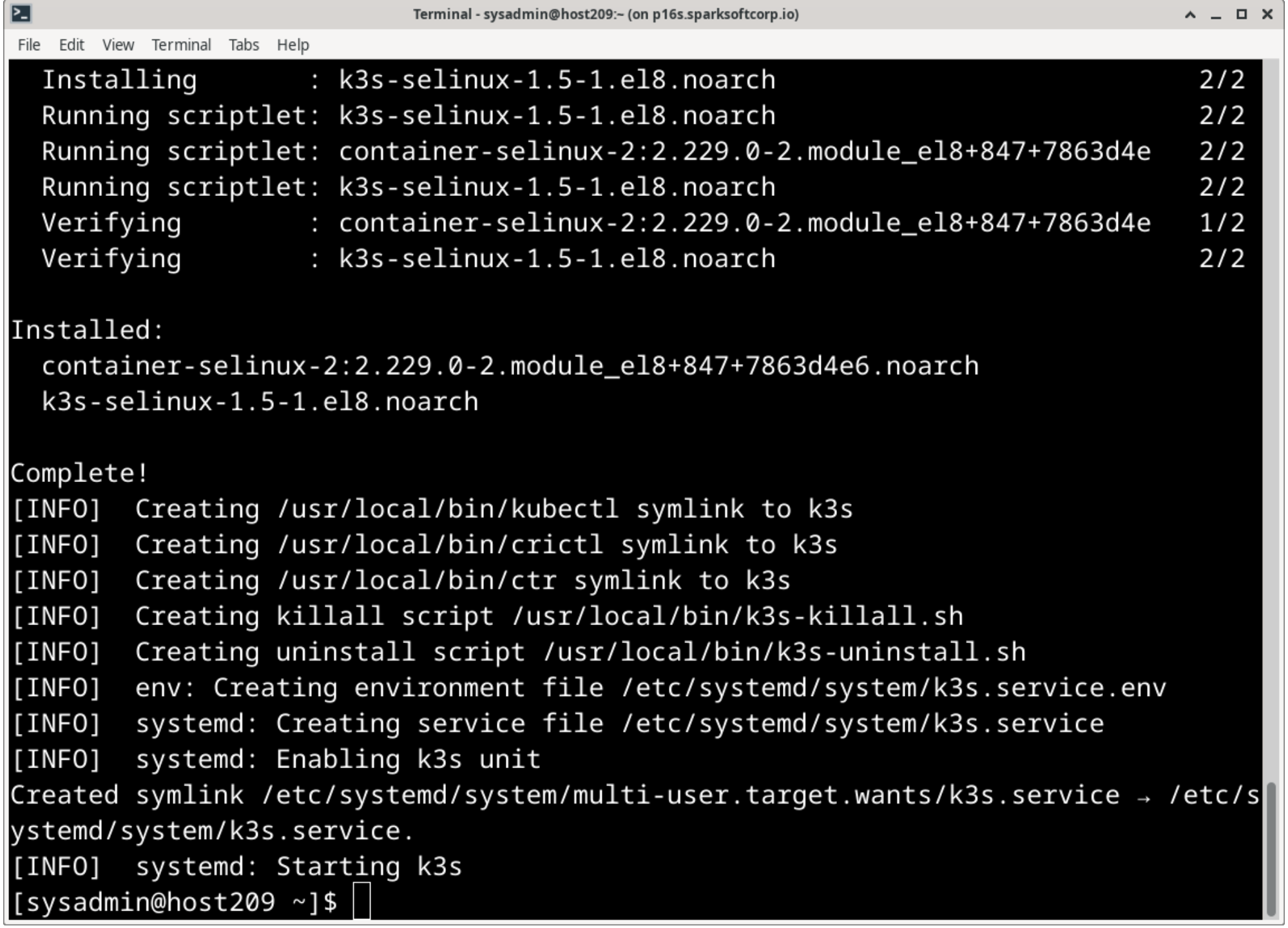
> ⚠ Warning
>
> If you are planning that creating backup of your AWX instance using AWX Operator by referring to the backup guide, AWX Operator 2.12.2 is not recommended due to a known issue for backup. Use an older version of AWX Operator like 2.12.1 instead.

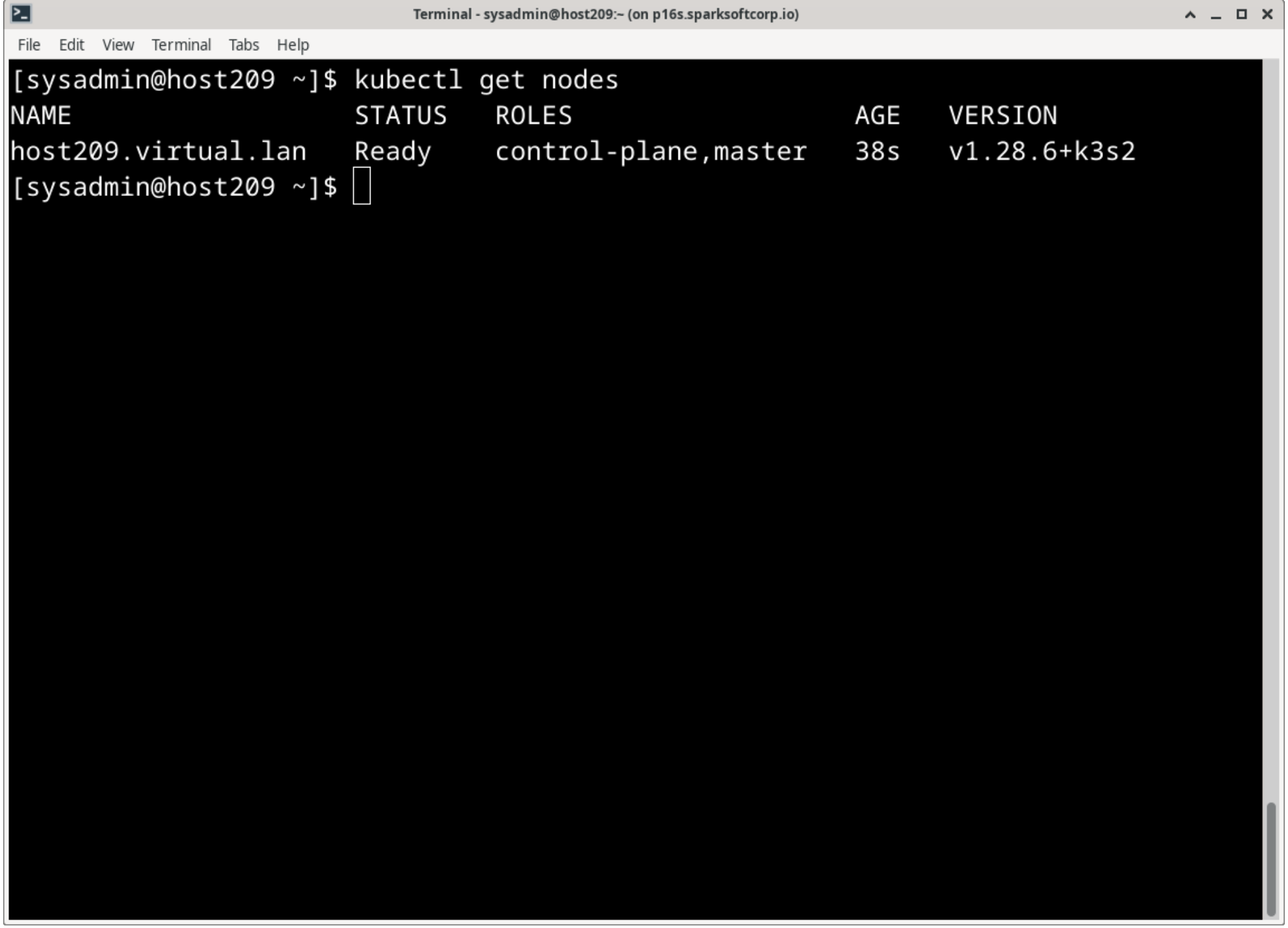
Clone this repository and change directory.

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
```

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

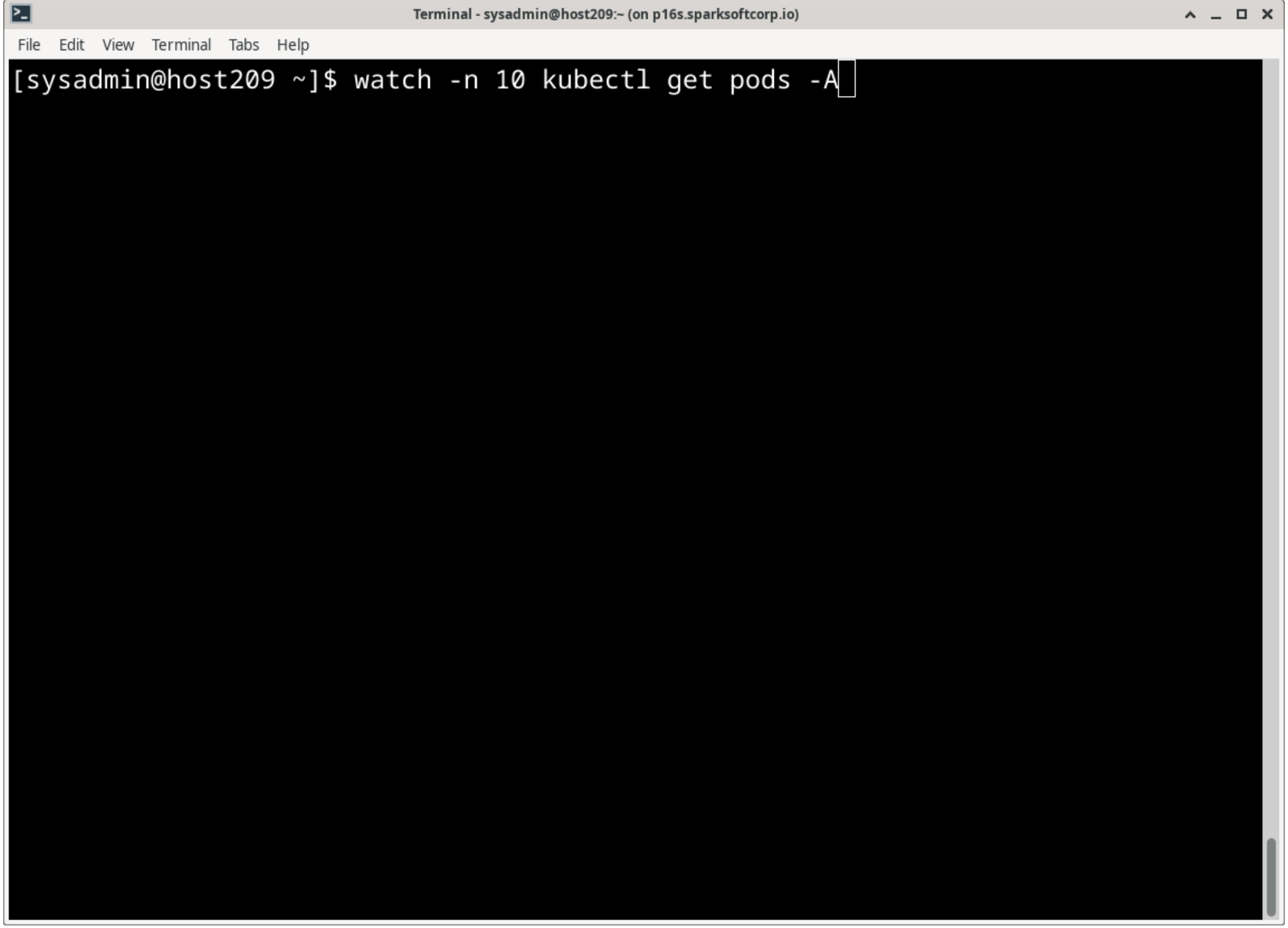

Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
Installing : k3s-selinux-1.5-1.el8.noarch 2/2
Running scriptlet: k3s-selinux-1.5-1.el8.noarch 2/2
Running scriptlet: container-selinux-2:2.229.0-2.module_el8+847+7863d4e 2/2
Running scriptlet: k3s-selinux-1.5-1.el8.noarch 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 ~]$
```


Terminal - sysadmin@host209:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 ~]$ watch -n 10 kubectl get pods -A

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

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
```

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

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.

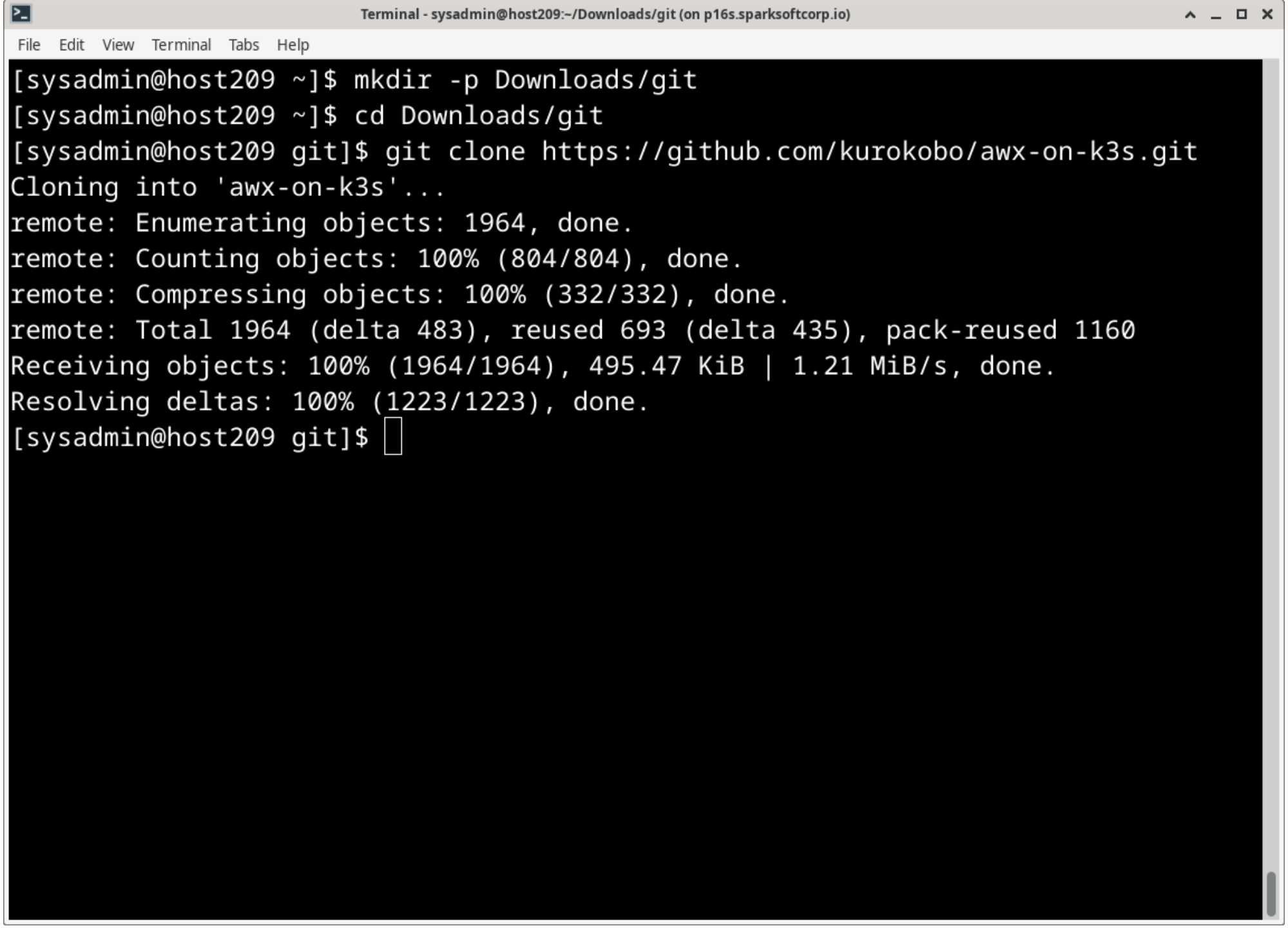
```
cd ~
git clone https://github.com/kurokobo/awx-on-k3s.git
cd awx-on-k3s
git checkout 2.12.2
```

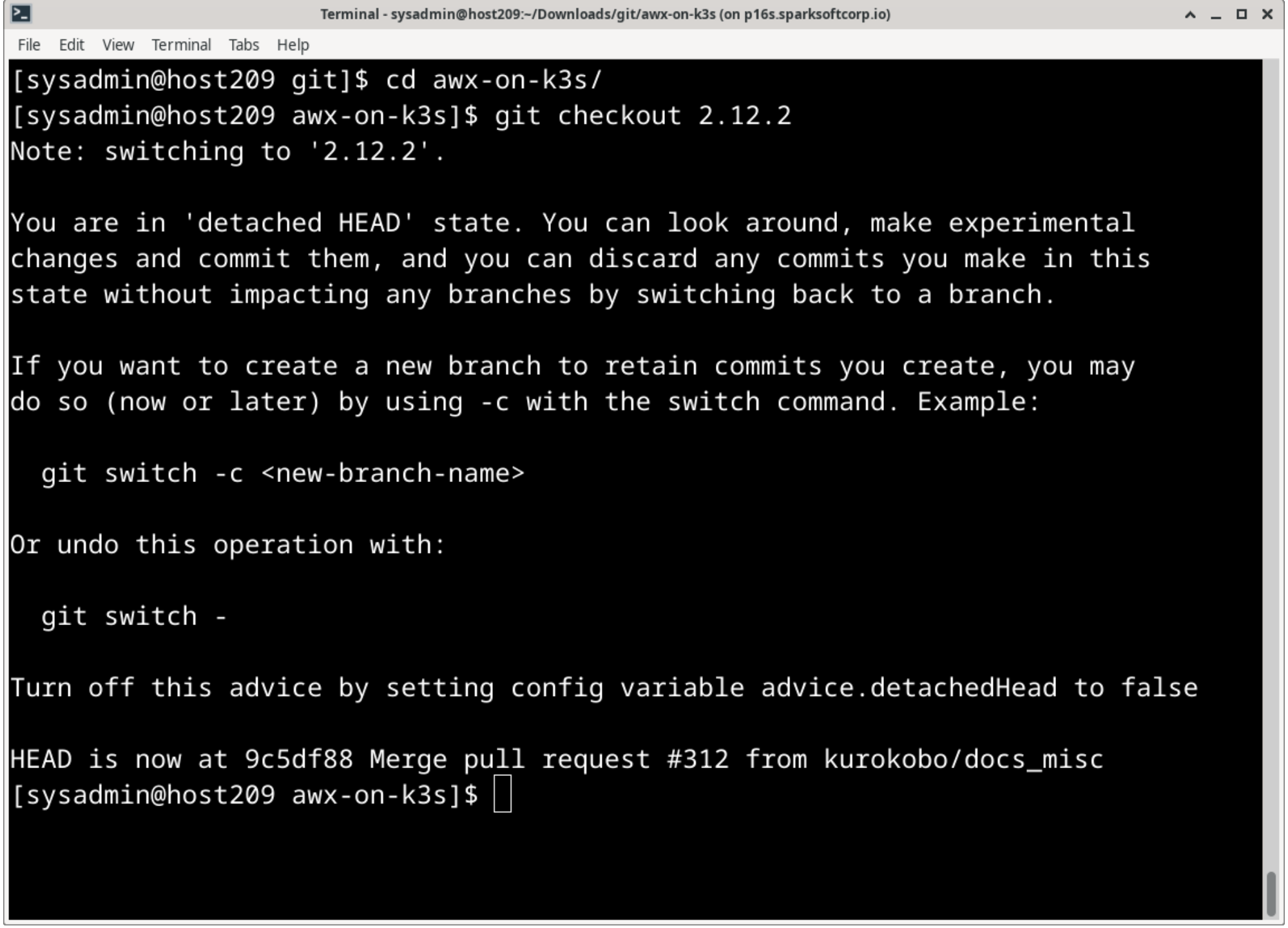
Then invoke `kubectl apply -k operator` to deploy AWX Operator.

```
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]$


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[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
```

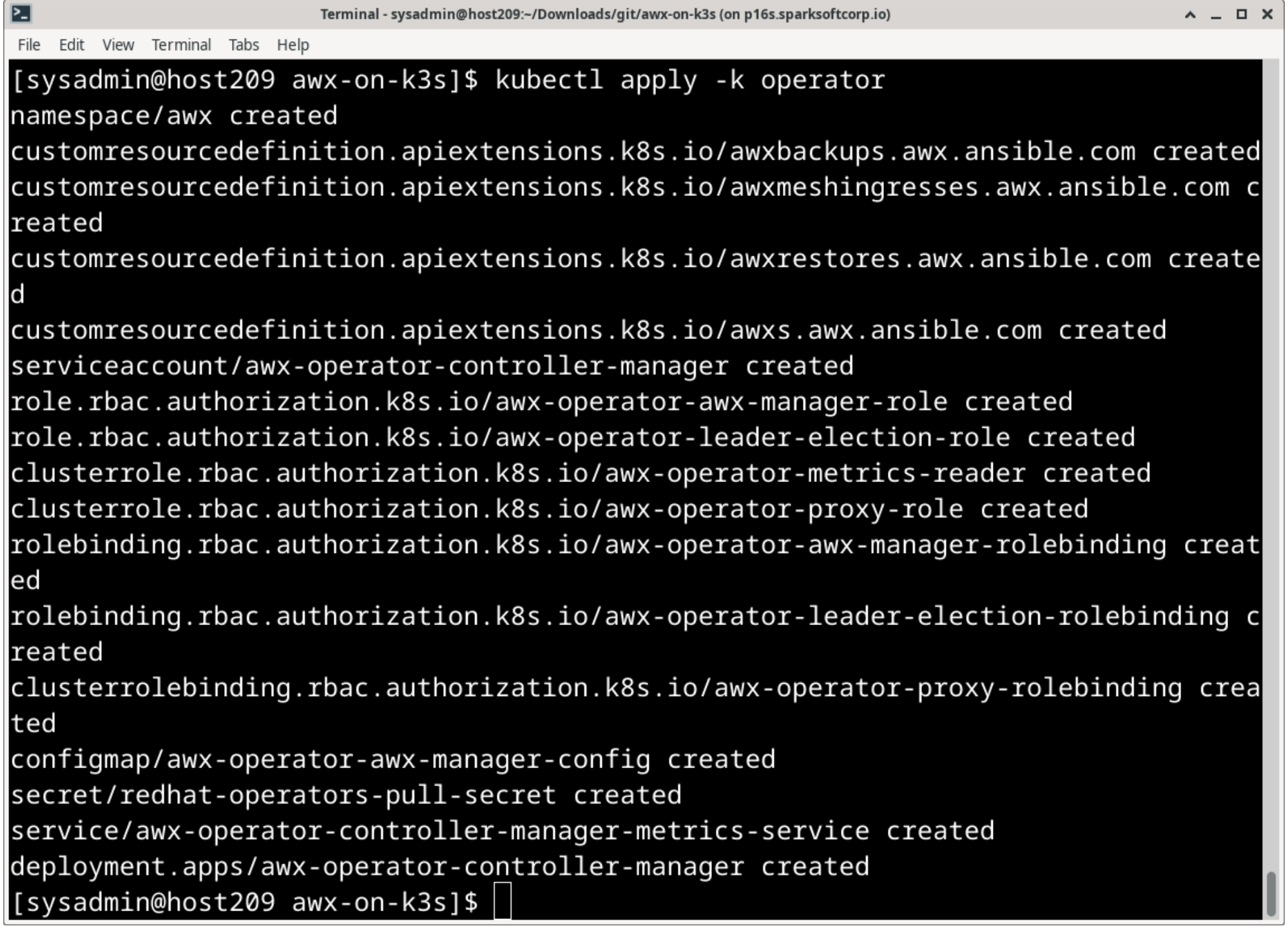
The AWX Operator will be deployed to the namespace `awx`.

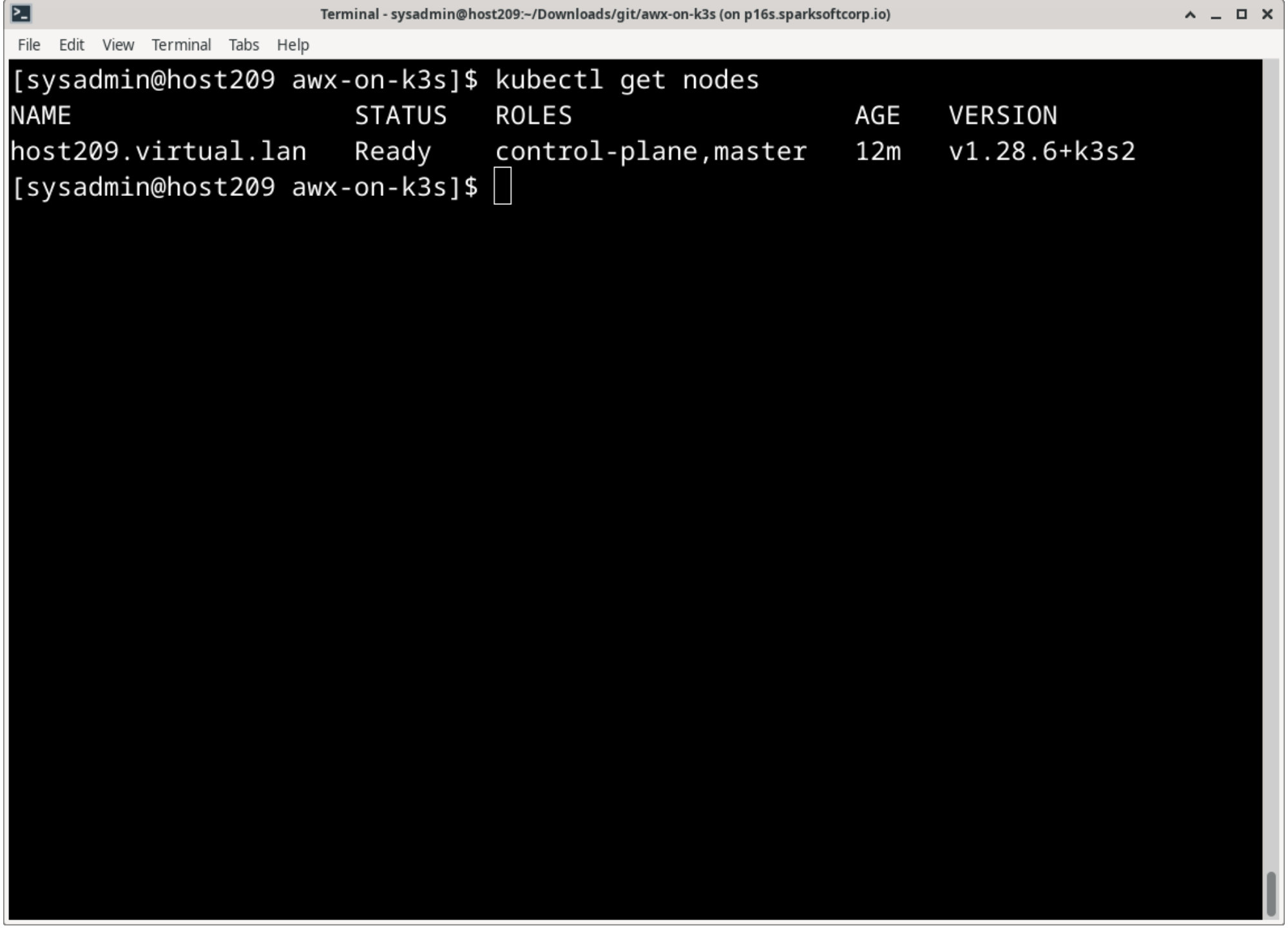
```
$ kubectl -n awx get all
NAME                                                READY   STATUS    RESTARTS   AGE
pod/awx-operator-controller-manager-68d787cfbd-kjfg7   2/2     Running   0          16s

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"
```

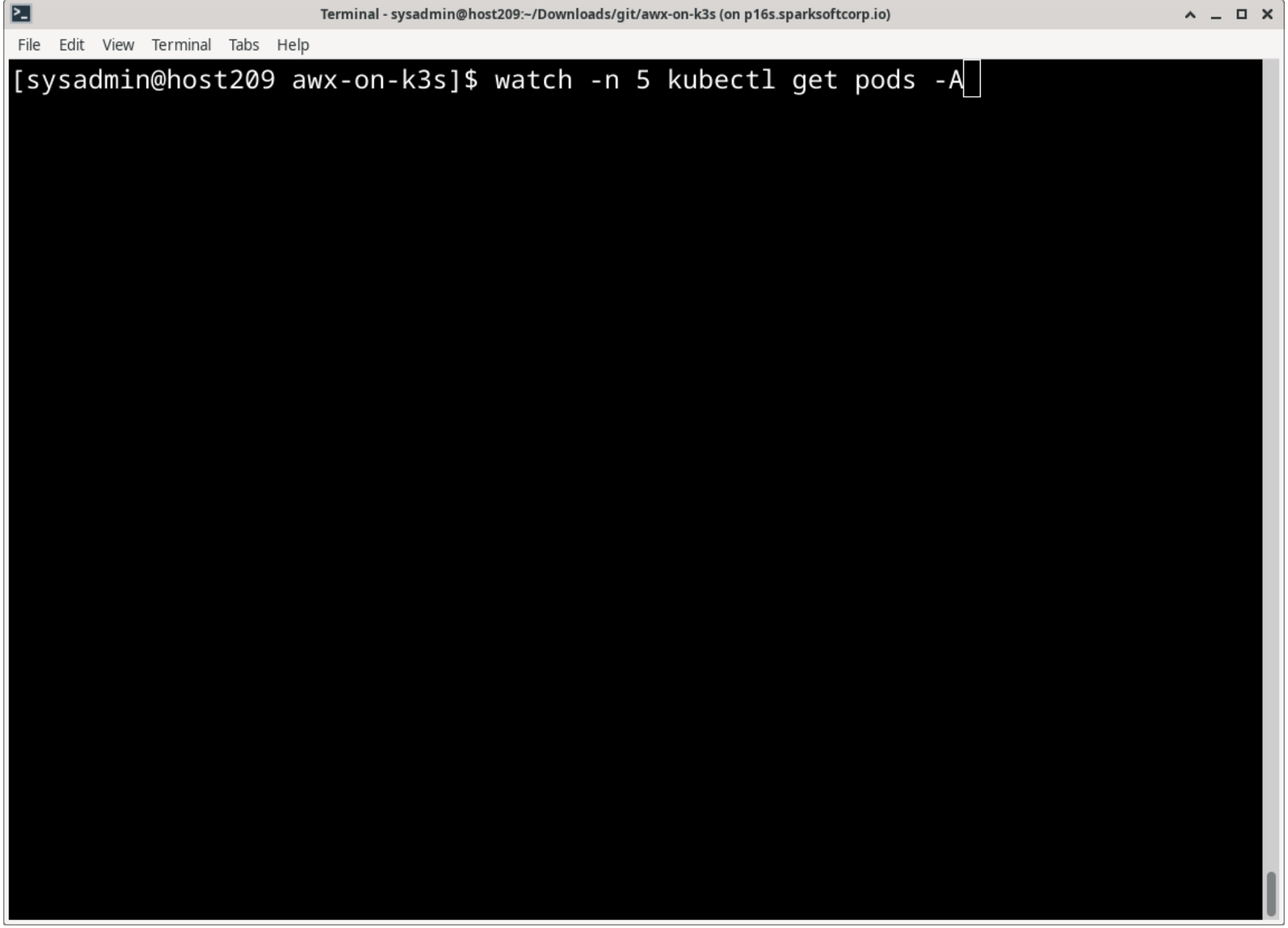

Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ kubectl apply -k operator
namespace/awx created
customresourcedefinition.apiextensions.k8s.io/awxbackups.awx.ansible.com created
customresourcedefinition.apiextensions.k8s.io/awxmeshingresses.awx.ansible.com created
customresourcedefinition.apiextensions.k8s.io/awxrestores.awx.ansible.com created
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 created
rolebinding.rbac.authorization.k8s.io/awx-operator-leader-election-rolebinding created
clusterrolebinding.rbac.authorization.k8s.io/awx-operator-proxy-rolebinding created
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]$


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 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]$
```


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ watch -n 5 kubectl get pods -A

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

File Edit View Terminal Tabs Help

```
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
```

```
[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]$
```

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

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
...
```

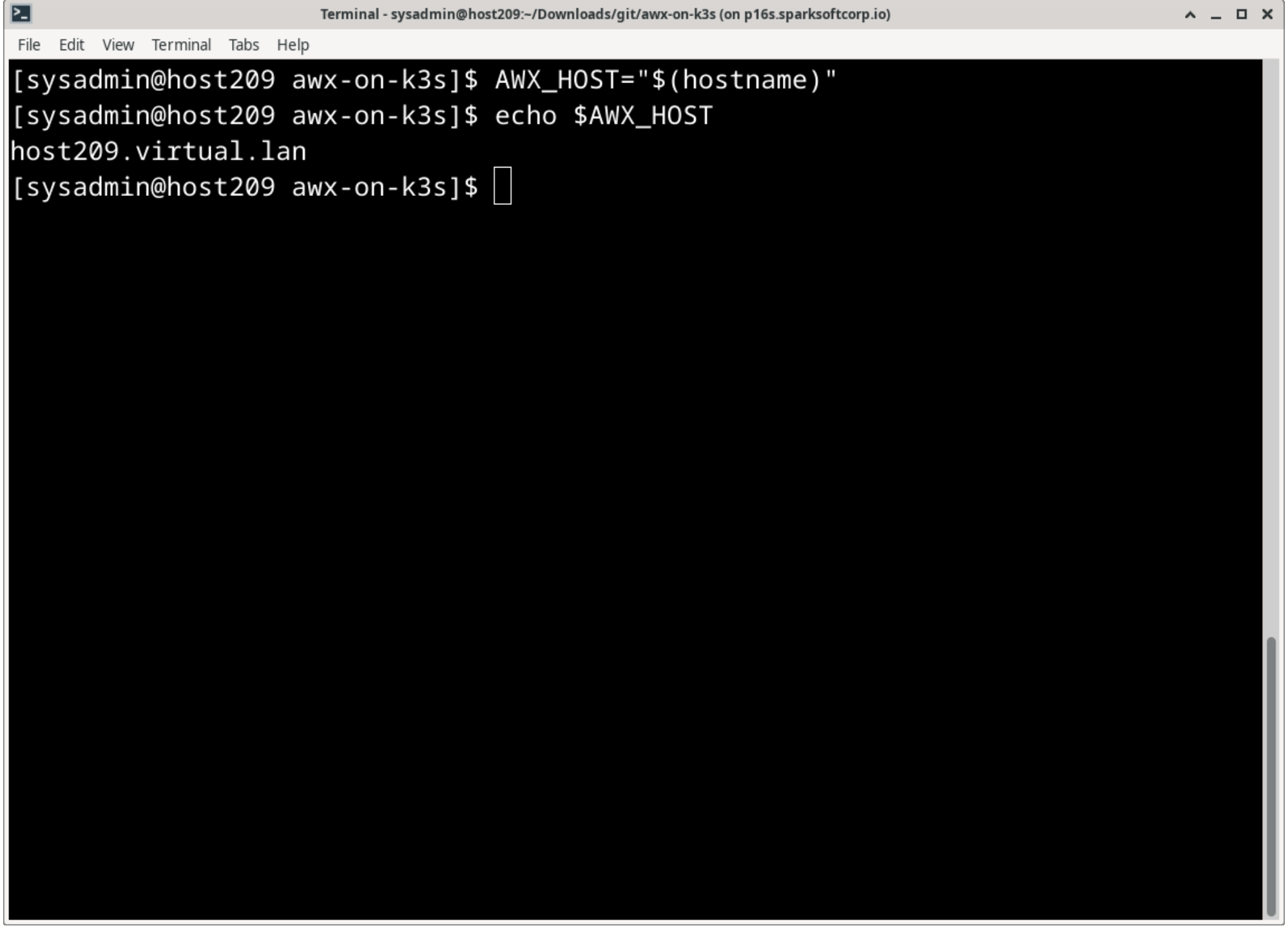
Modify the two `password` entries in `base/kustomization.yaml`. Note that the `password` under `awx-postgres-configuration` should not contain single or double quotes (`'`, `"`) or backslashes (`\`) to avoid any issues during deployment, backup or restoration.

```
...
  - 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]$
```


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ AWX_HOST="$(hostname)"
[sysadmin@host209 awx-on-k3s]$ echo $AWX_HOST
host209.virtual.lan
[sysadmin@host209 awx-on-k3s]$

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

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}"
```

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

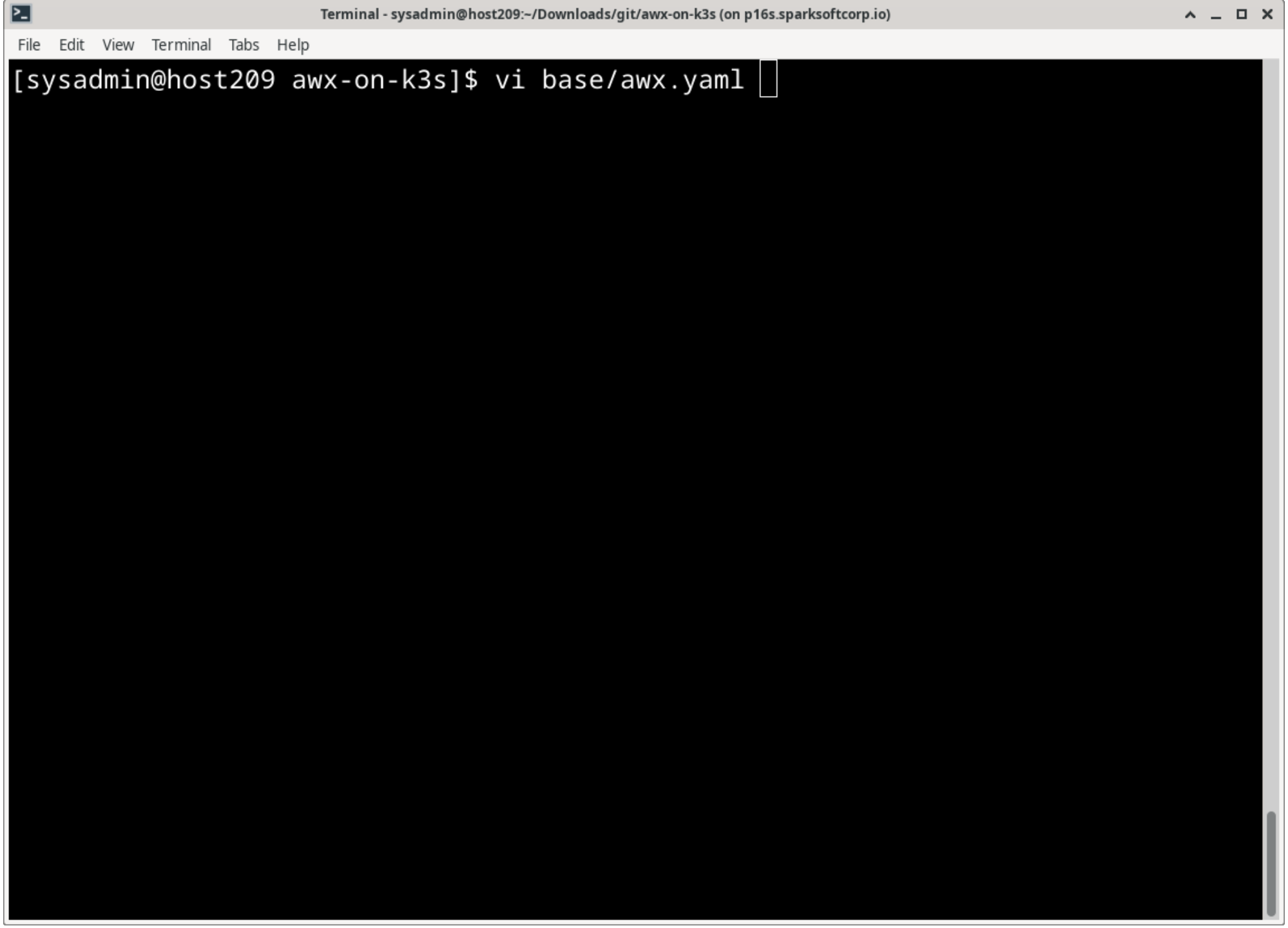
File Edit View Terminal Tabs Help

```
[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:${AWX_HOST}"
Generating a RSA private key
.....................................................+++++
.............................+++++
writing new private key to './base/tls.key'
-----
[sysadmin@host209 awx-on-k3s]$
```

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

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
```


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ vi base/awx.yaml

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

File Edit View Terminal Tabs Help

```
---
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
```

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

File Edit View Terminal Tabs Help

```
---
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
```

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

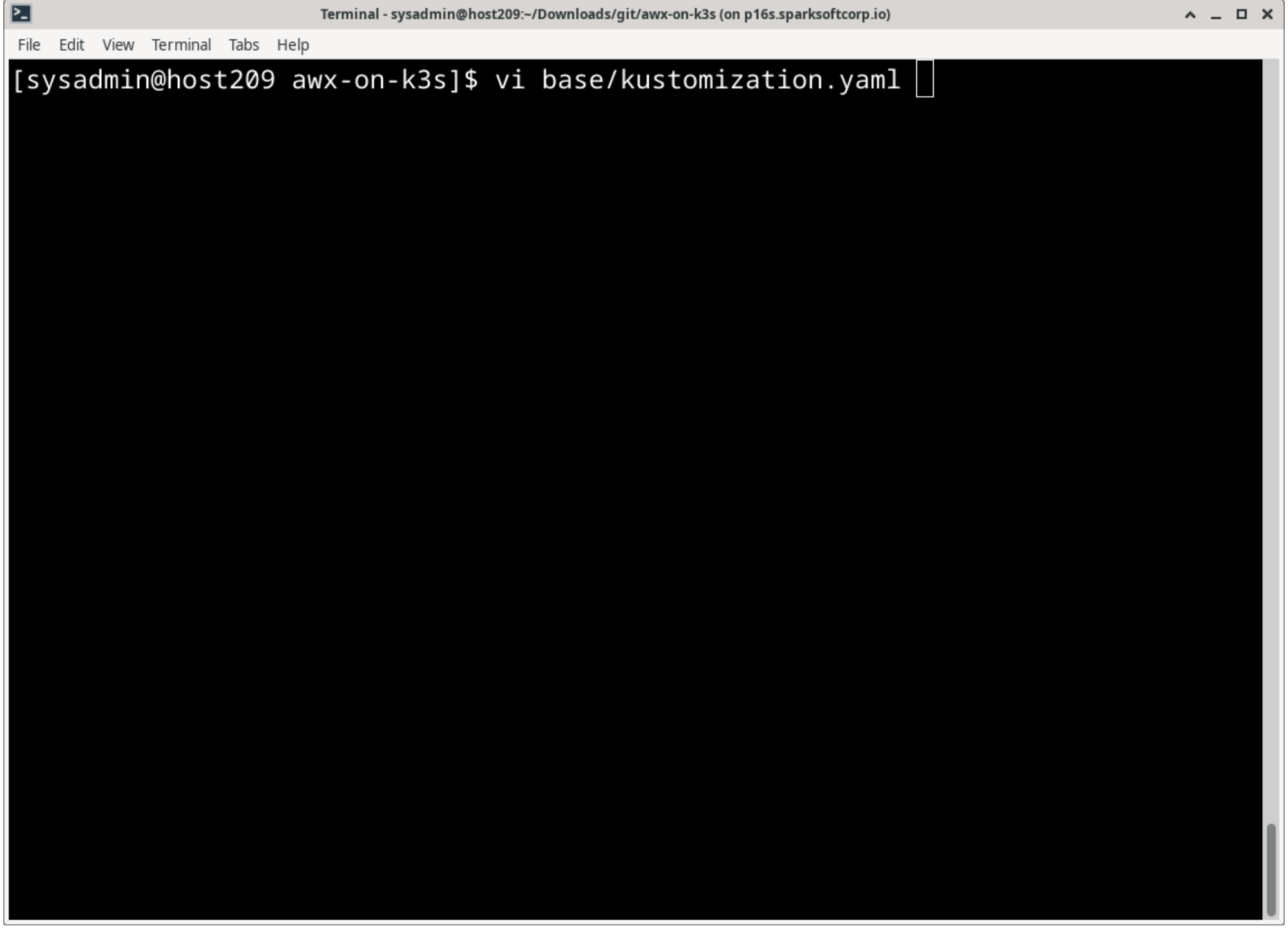
README MIT license

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)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ vi base/kustomization.yaml

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

File Edit View Terminal Tabs Help

```
  - 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%
```

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

File Edit View Terminal Tabs Help

```
      - 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%
```

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

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
```

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

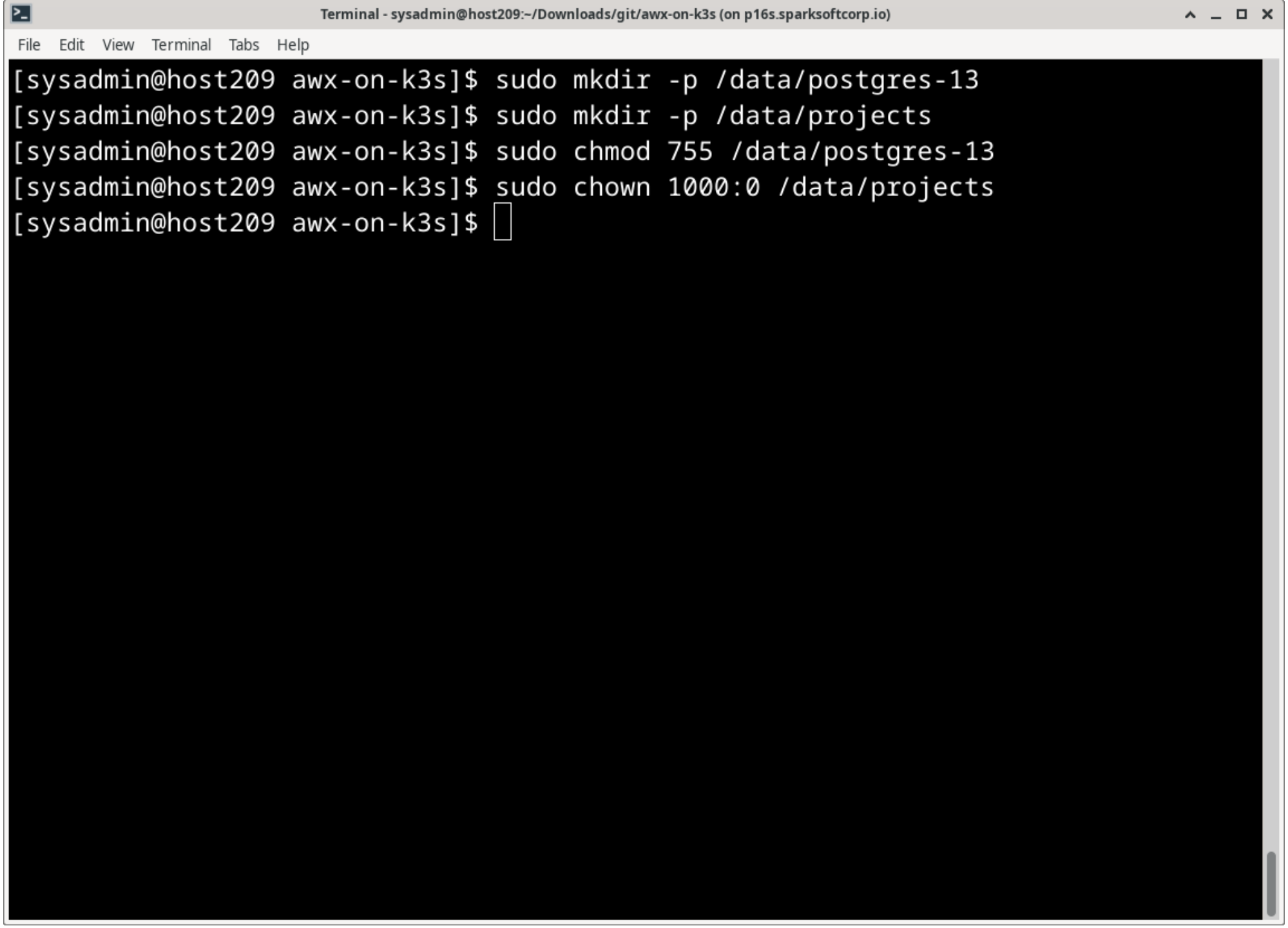
File Edit View Terminal Tabs Help

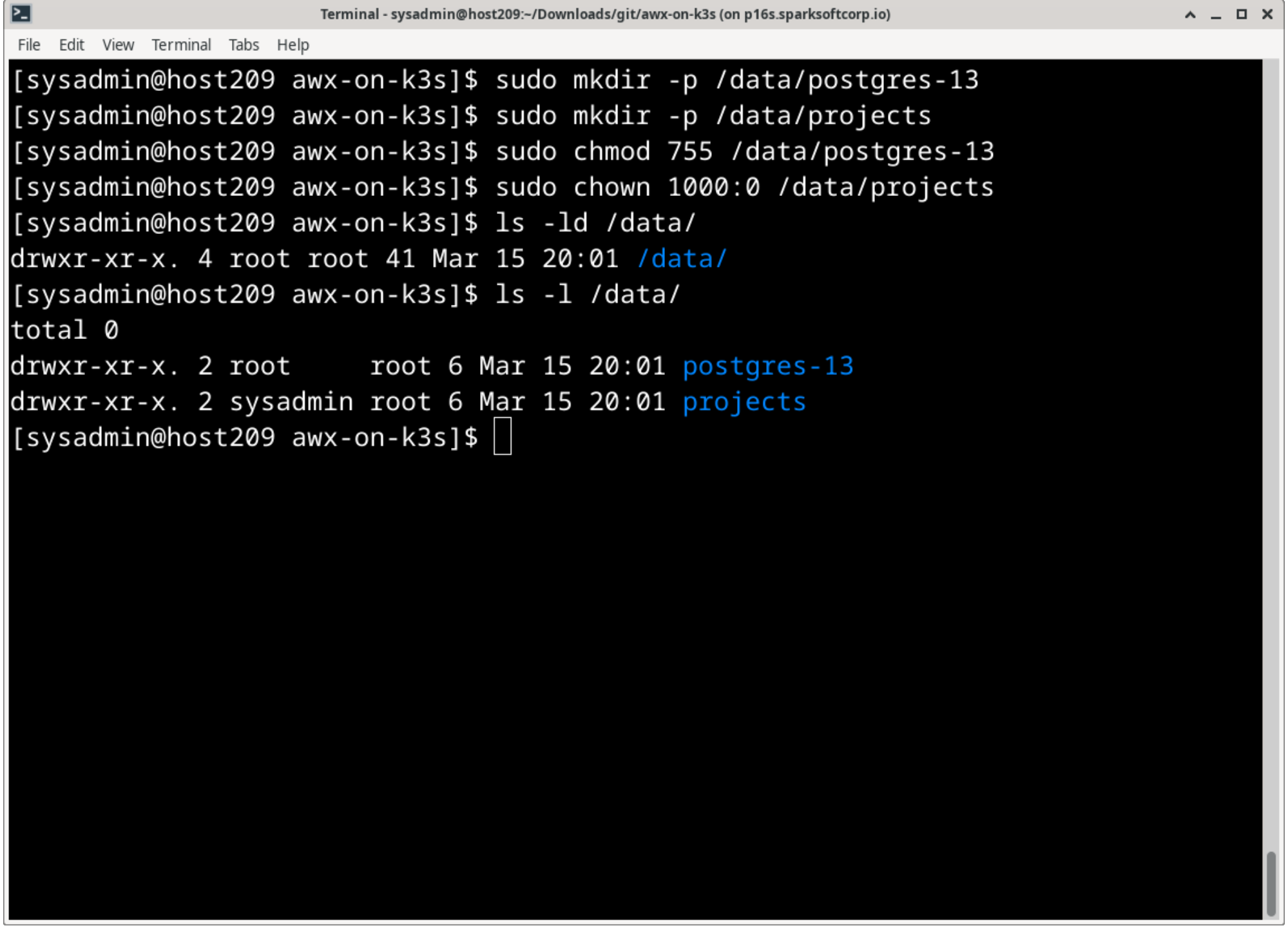
```
---
apiVersion: v1
kind: PersistentVolume
metadata:
  name: awx-postgres-13-volume
spec:
  accessModes:
    - ReadWriteOnce
  persistentVolumeReclaimPolicy: Retain
  capacity:
    storage: 8Gi
  storageClassName: awx-postgres-volume
  hostPath:
    path: /data/postgres-13

---
apiVersion: v1
kind: PersistentVolume
metadata:
  name: awx-projects-volume
spec:
  accessModes:
    - ReadWriteOnce
base/pv.yaml
```

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

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)
```


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


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

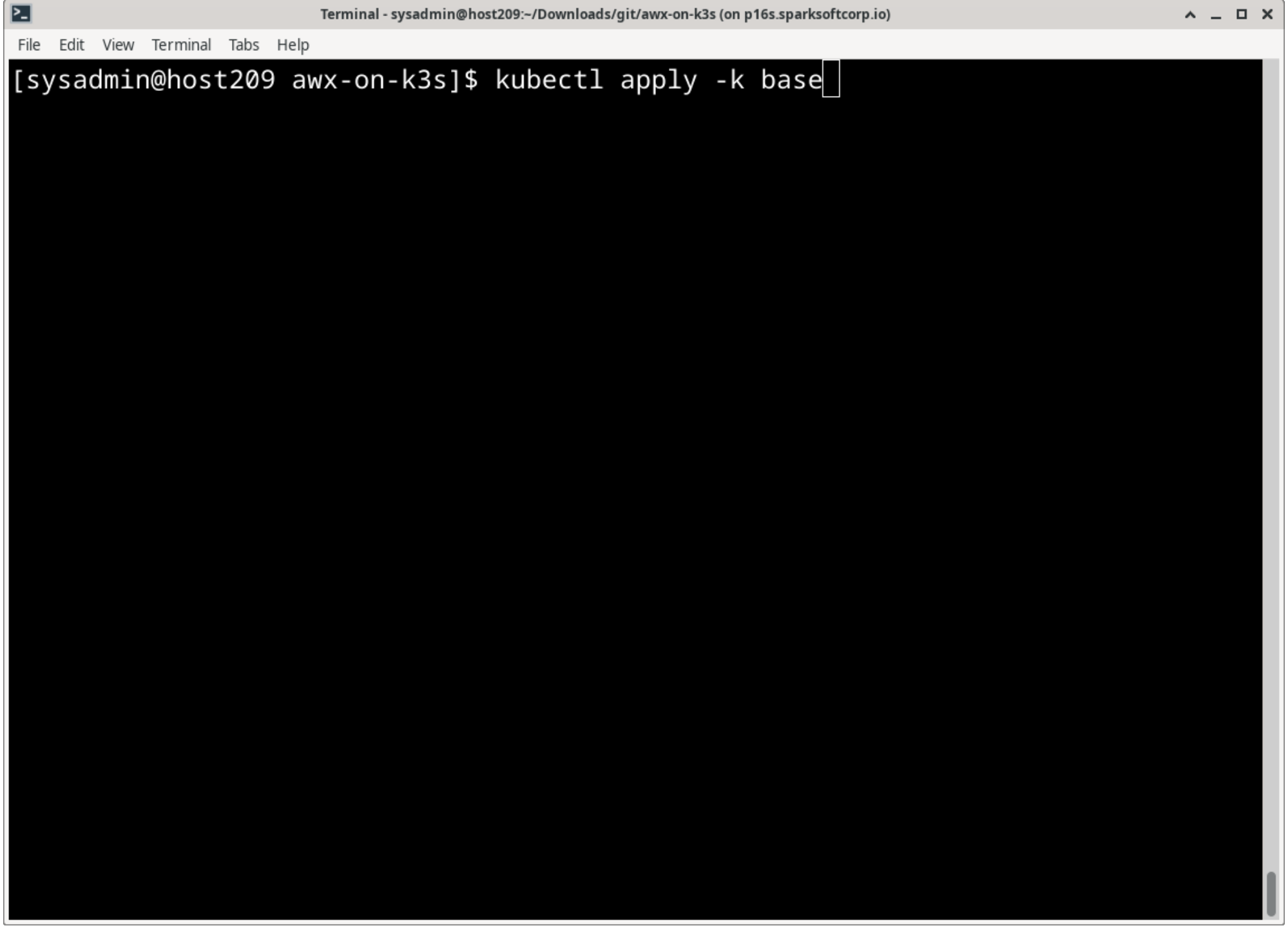
```
kubectl -n awx logs -f deployments/awx-operator-controller-manager
```

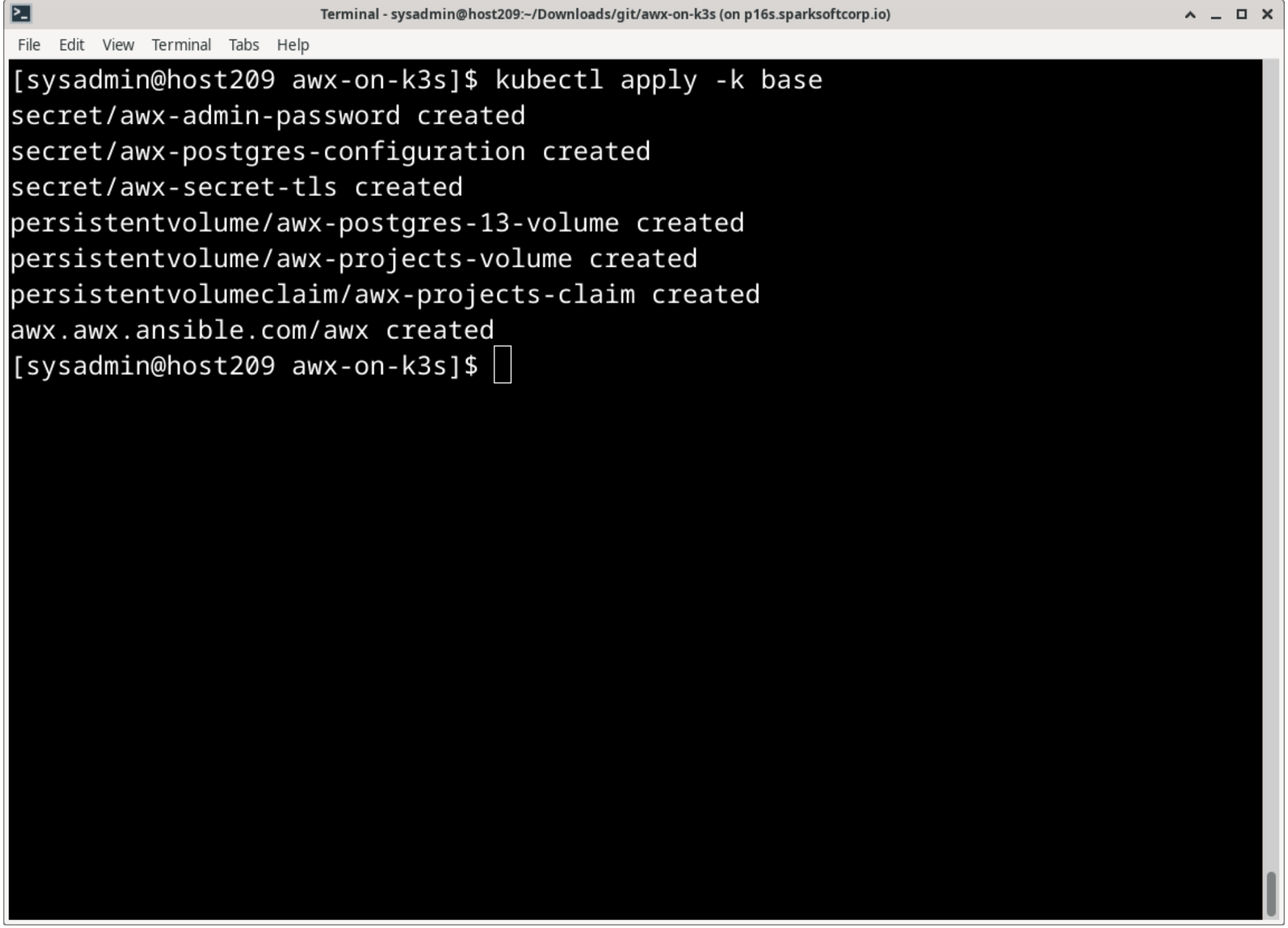
If the deployment completes successfully, the logs end with:

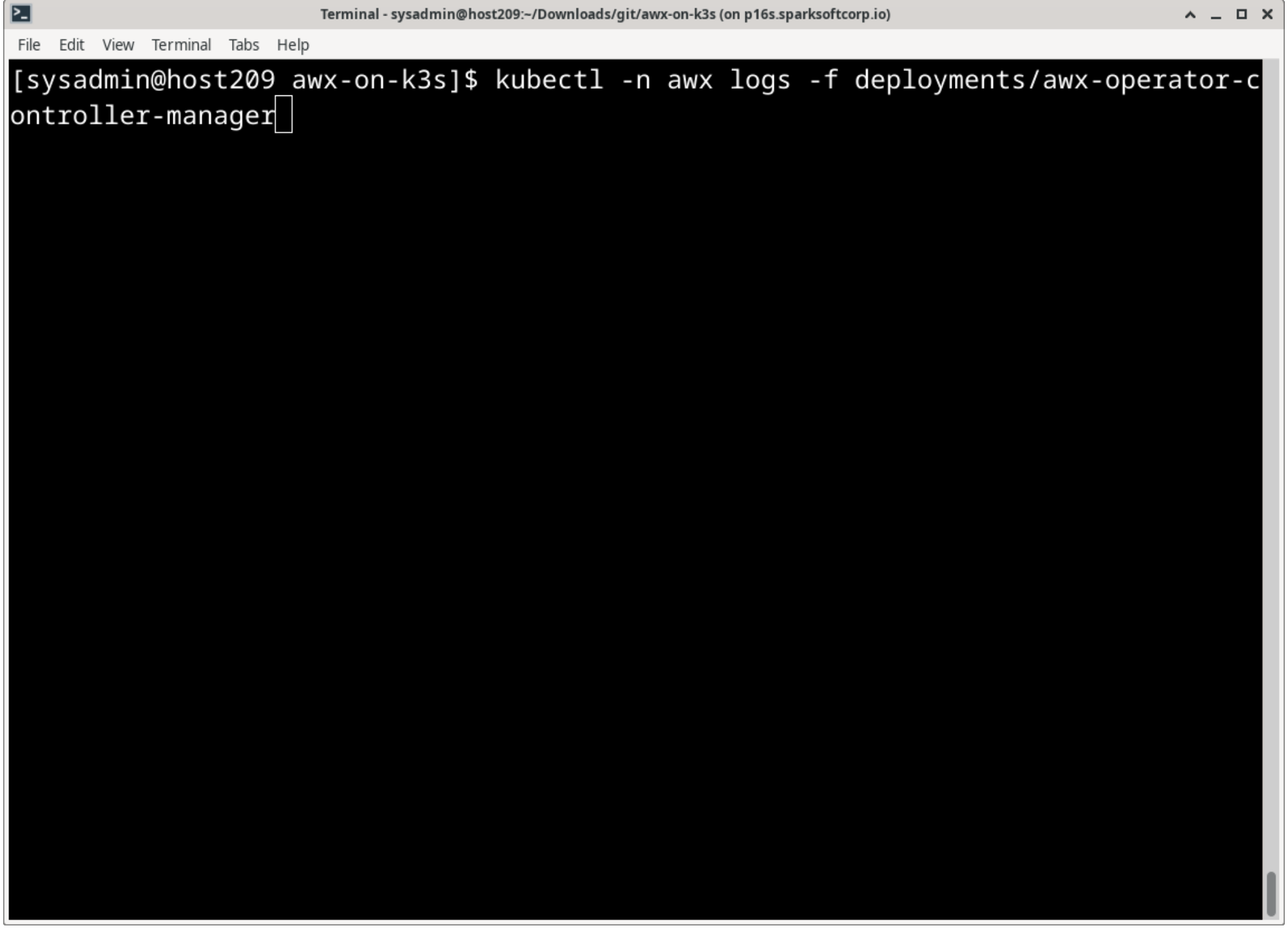
```
$ kubectl -n awx logs -f deployments/awx-operator-controller-manager
...
----- Ansible Task Status Event StdOut (awx.ansible.com/v1beta1, Kind=AWX, awx/awx) -----
PLAY RECAP *********************************************************************
localhost                  : ok=85   changed=1    unreachable=0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


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[sysadmin@host209 awx-on-k3s]$ kubectl apply -k base


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
[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]$


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 logs -f deployments/awx-operator-controller-manager

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 logs -f deployments/awx-operator-c
ontroller-manager
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"cmd","msg":"Version","Go V
ersion":"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 names
paces","namespaces":["awx"]}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environmen
t variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWX_AWX_ANS
IBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environmen
t variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWXBACKUP_A
WX_ANSIBLE_COM","default":2}
{"level":"info","ts":"2024-03-15T20:06:21Z","logger":"watches","msg":"Environmen
t 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":"Environmen
t variable not set; using default value","envVar":"ANSIBLE_VERBOSITY_AWXMESHINGR
ESS_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]$
```

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

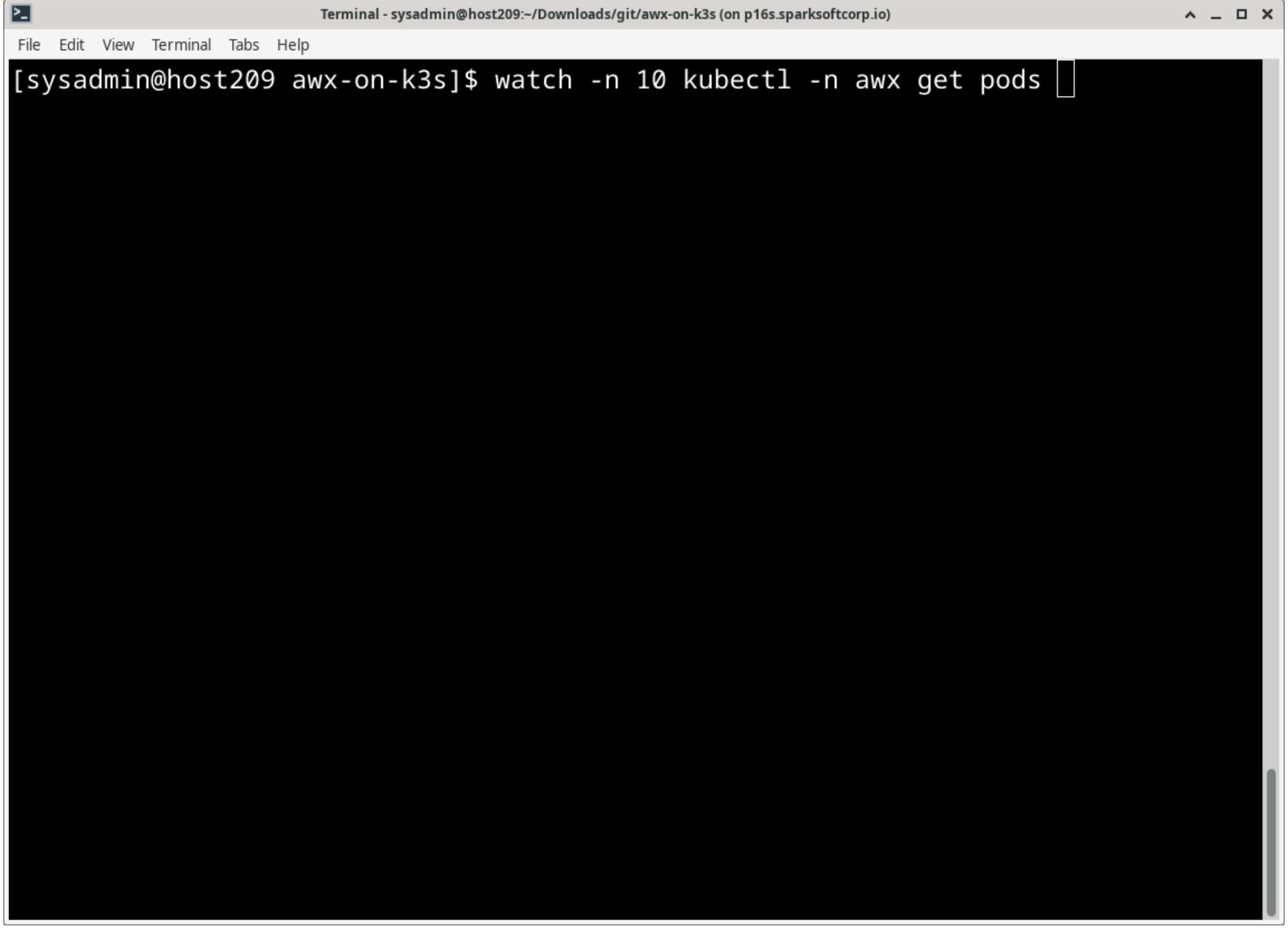
File Edit View Terminal Tabs Help

```
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]$
```


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

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 20:20:57 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)

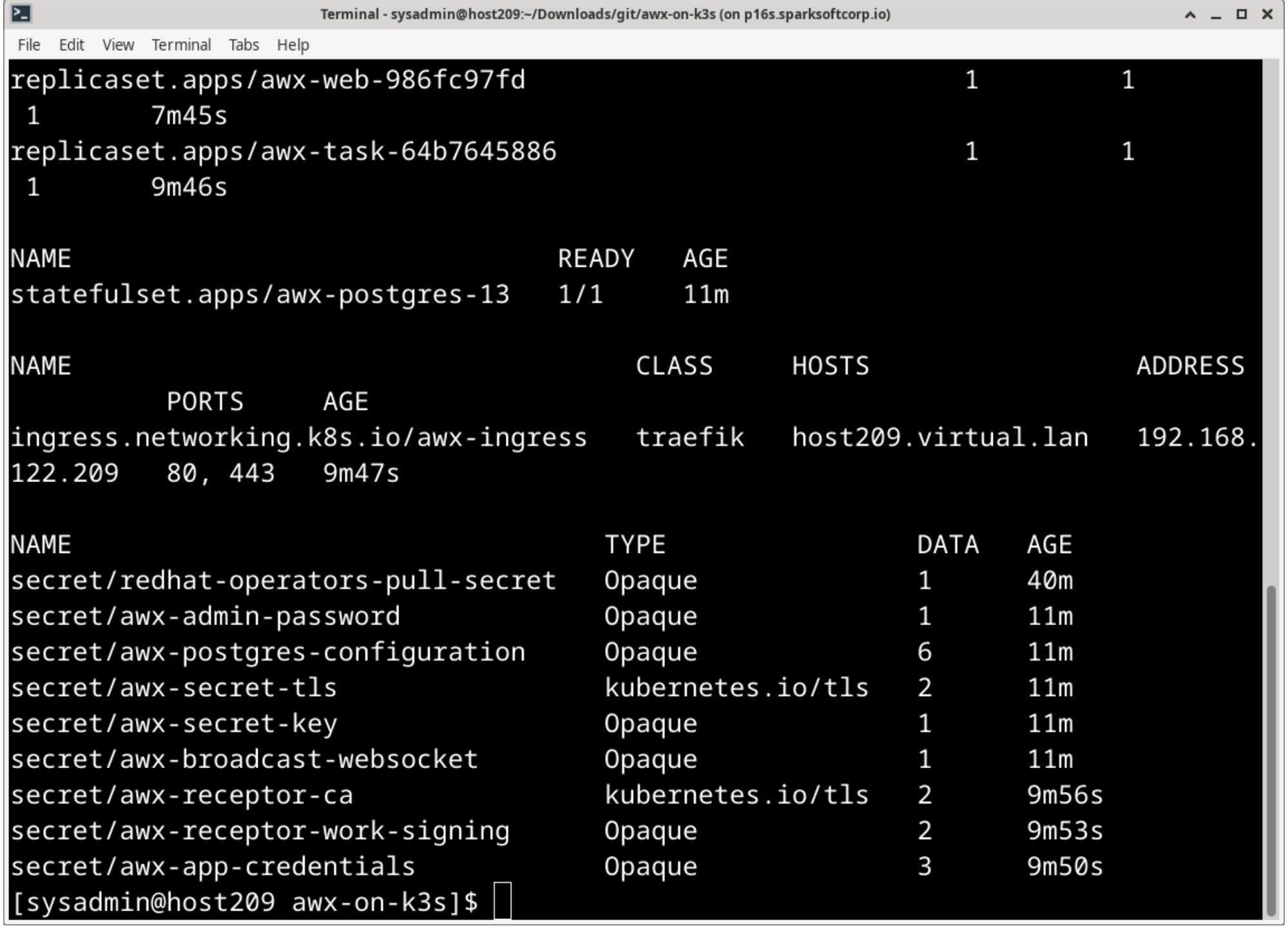
File Edit View Terminal Tabs Help

```
[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
```

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

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
```


Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
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]$

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-run
ner exited successfully","job":"14632667846908371 1","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

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

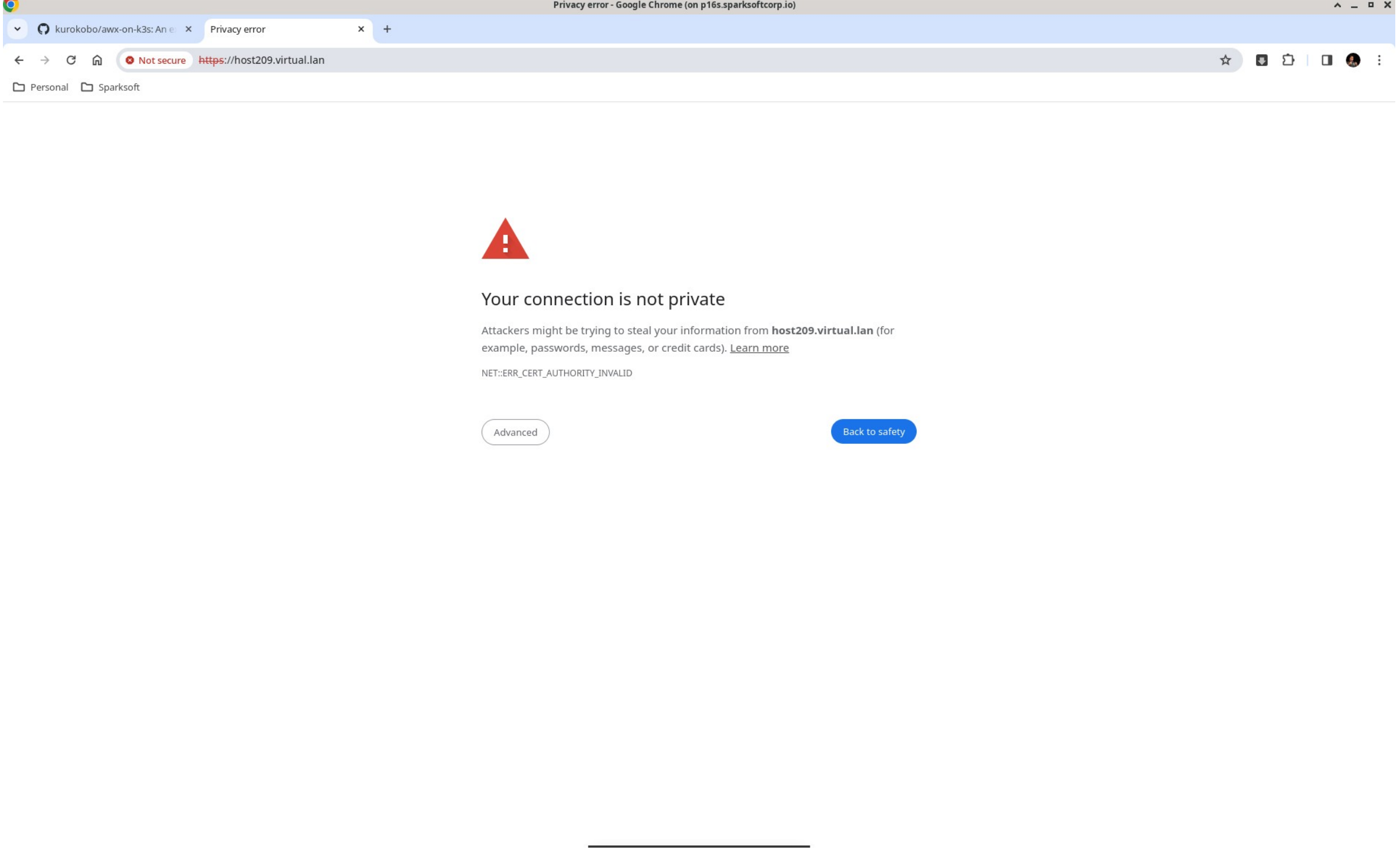
Terminal - sysadmin@host209:~/Downloads/git/awx-on-k3s (on p16s.sparksoftcorp.io)

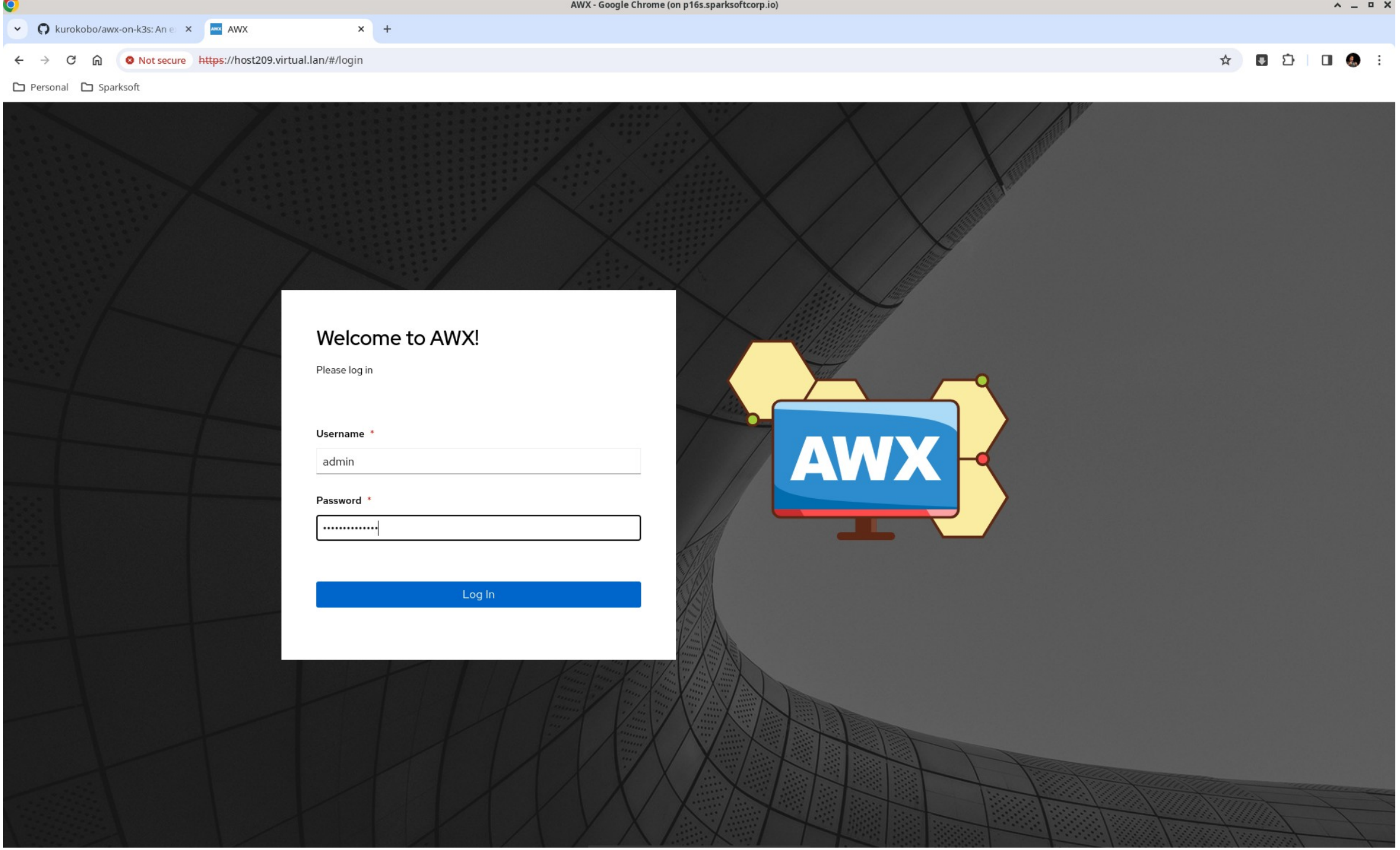
File Edit View Terminal Tabs Help

```
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-run
ner exited successfully","job":"14632667846908371 1","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

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

Log In

Finally, we get to explore the UI


Privacy error - Google Chrome (on p16s.sparksoftcorp.io)
kurokobo/awx-on-k3s: An e
Privacy error
Not secure
https://host209.virtual.lan
Personal
Sparksoft
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


AWX - Google Chrome (on p16s.sparksoftcorp.io)
kurokobo/awx-on-k3s: An e
AWX
Not secure
https://host209.virtual.lan/#/login
Personal
Sparksoft
Welcome to AWX!
Please log in
Username *
admin
Password *
Log In
AWX

AWX | Dashboard - Google Chrome (on p16s.sparksoftcorp.io)
kurokobo/awx-on-k3s: An e
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About

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

Dashboard

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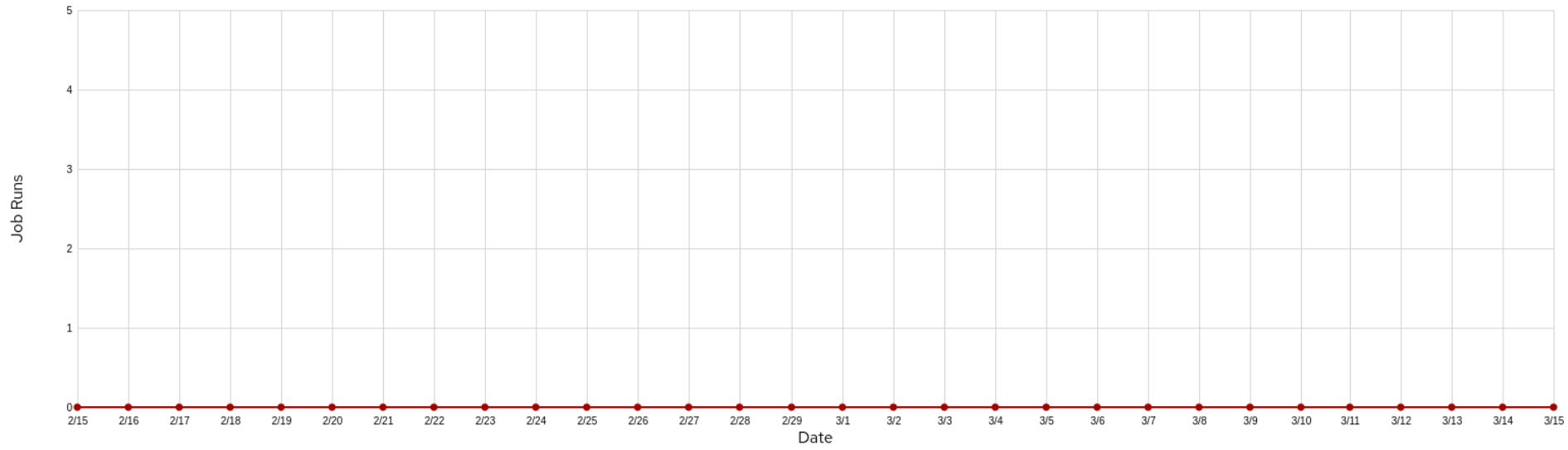
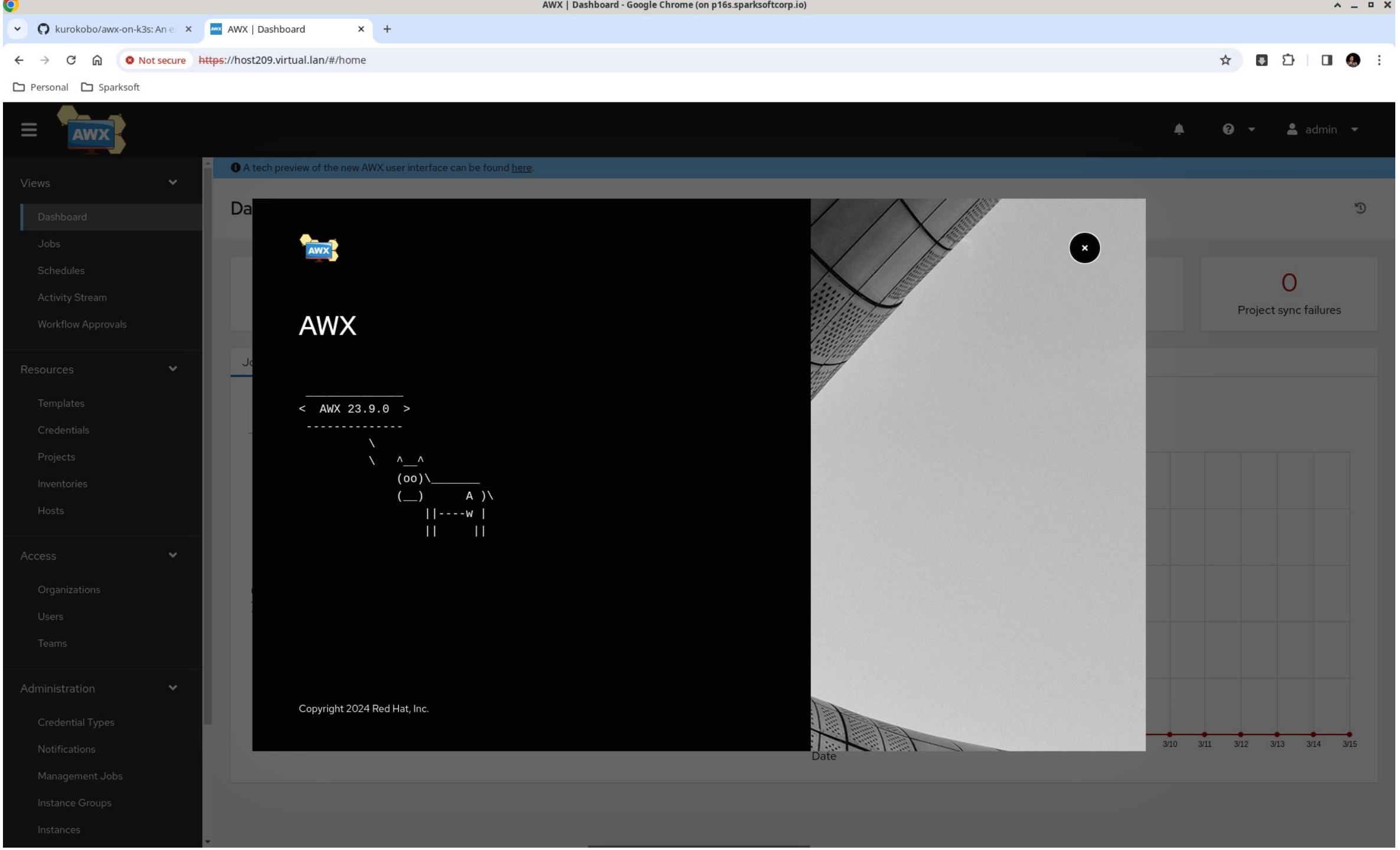
1	0	1	0	1	0
Hosts	Failed hosts	Inventories	Inventory sync failures	Projects	Project sync failures

Job status | Recent Jobs | Recent Templates

Past month | All job types | All jobs




AWX | Dashboard - Google Chrome (on p16s.sparksoftcorp.io)
kurokobo/awx-on-k3s: An e
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AWX
< AWX 23.9.0 >
Copyright 2024 Red Hat, Inc.
0
Project sync failures
3/10
3/11
3/12
3/13
3/14
3/15
Date

awx

Public

Switch branches/tags

Find a tag...

Branches Tags

- 24.0.0
- 23.9.0
- 23.8.1
- 23.8.0
- 23.7.0
- 23.6.0
- 23.5.1
- 23.5.0
- 23.4.0
- 23.3.1

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

Skip replicas test for awx-operator (#14987)	2 days ago
[developer productivity improvement] Running awx co...	last week
Add dump_auth_config management cmd (for SAML an...	3 hours ago
Reset another to test-playbooks	3 weeks ago
AAP-13369 Python 3.9 -> 3.11 upgrade (#14771)	2 days ago
Assorted renaming and string changes	3 years ago
Backported from product-docs PR #2001 (misc doc clea...	2 hours ago
Mismatch dependencies version (#14986)	yesterday
Mismatch dependencies version (#14986)	yesterday
AAP-13369 Python 3.9 -> 3.11 upgrade (#14771)	2 days ago

About

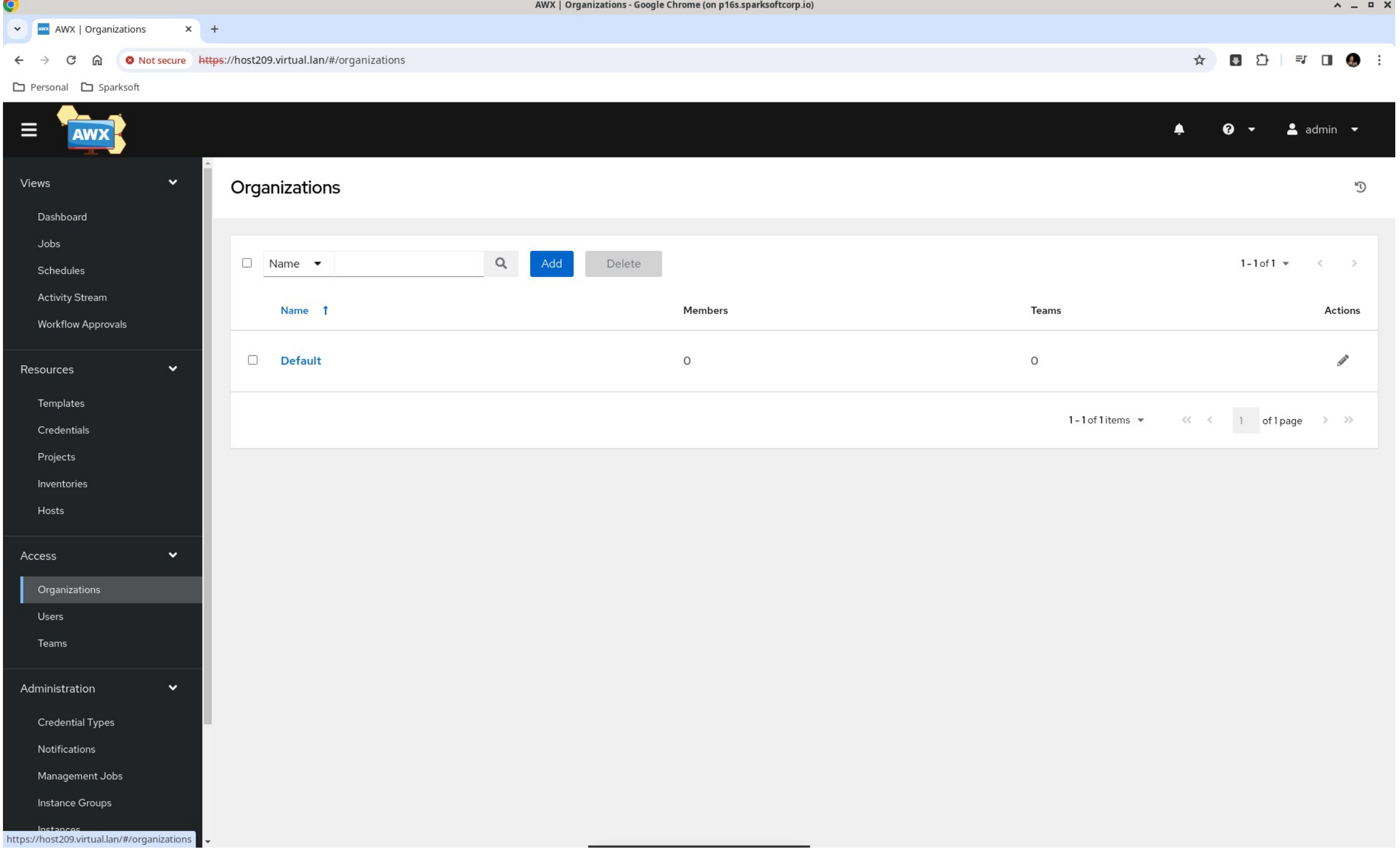
AWX provides a web-based user interface, REST API, and task engine built on top of Ansible. It is one of the upstream projects for Red Hat Ansible Automation Platform.

python ansible automation django reactjs django-rest-framework hacktoberfest awx

Readme
View license
Code of conduct
Security policy
Activity
Custom properties
13.3k stars
374 watching

Organizations

To carve up your enterprise


AWX | Organizations - Google Chrome (on p16s.sparksoftcorp.io)
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Not secure https://host209.virtual.lan/#/organizations
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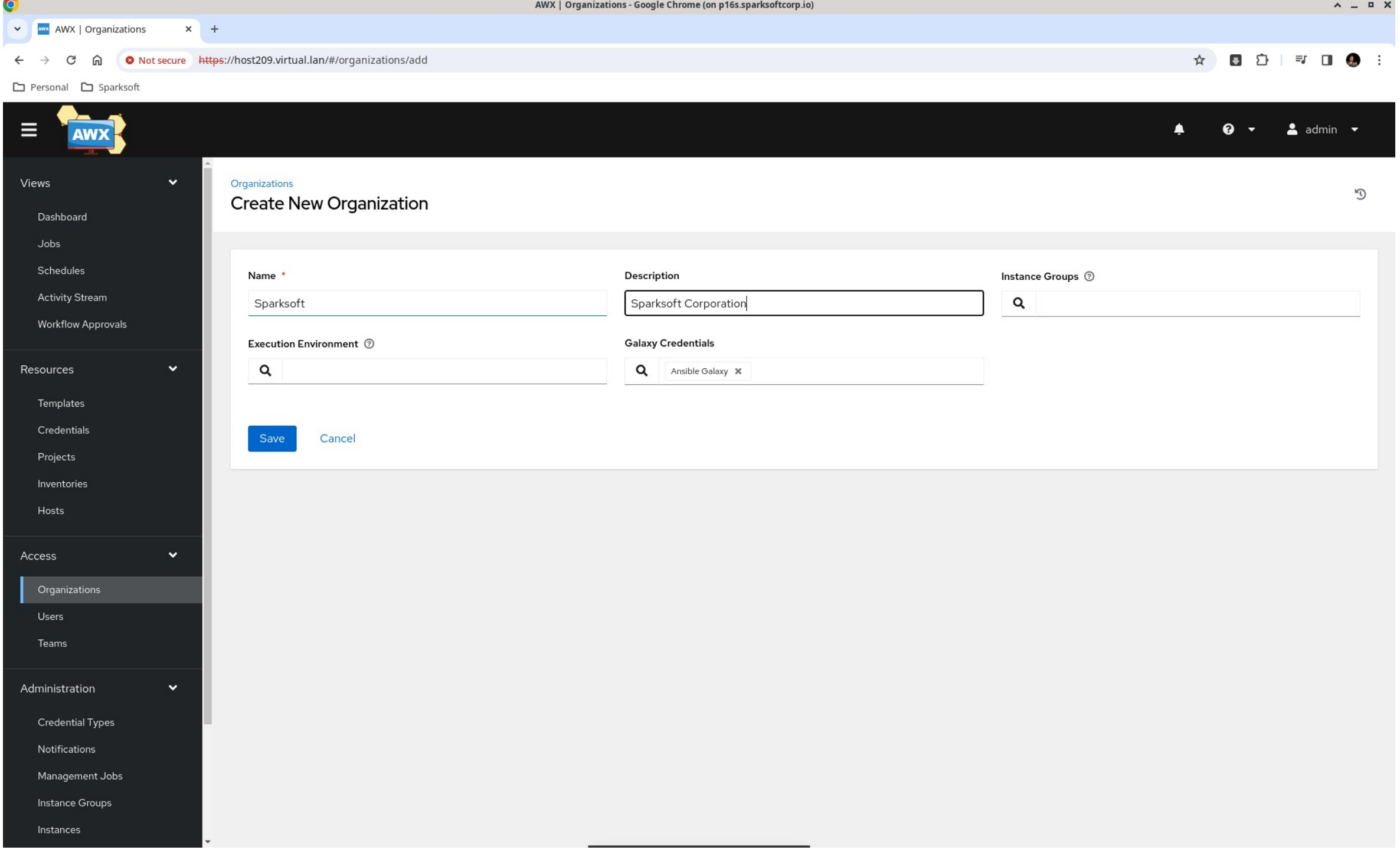
AWX | Organizations - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Organizations
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Name *
Sparksoft
Description
Sparksoft Corporation
Instance Groups
Execution Environment
Galaxy Credentials
Ansible Galaxy
Save
Cancel

AWX | Sparksoft - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Sparksoft

Not secure https://host209.virtual.lan/#/organizations/2/details

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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...

Edit Delete

Users

For assigning permissions

AWX | Users - Google Chrome (on p16s.sparksoftcorp.io)

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

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Users

Email | Add | Delete | 1 - 1 of 1

Username	First Name	Last Name	Role	Actions
admin			System Administrator	

1 - 1 of 1 items | 1 of 1 page

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

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Create New User

First Name

Last Name

Email

Username *

Password *

Confirm Password *

User Type *

Normal User

Organization *

Save Cancel

AWX | Users - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Users

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

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Users

Create New User

First Name
Thomas

Last Name
Cameron

Email
thomas.cameron@sparksoftcorp.com

Username *
thomas.cameron

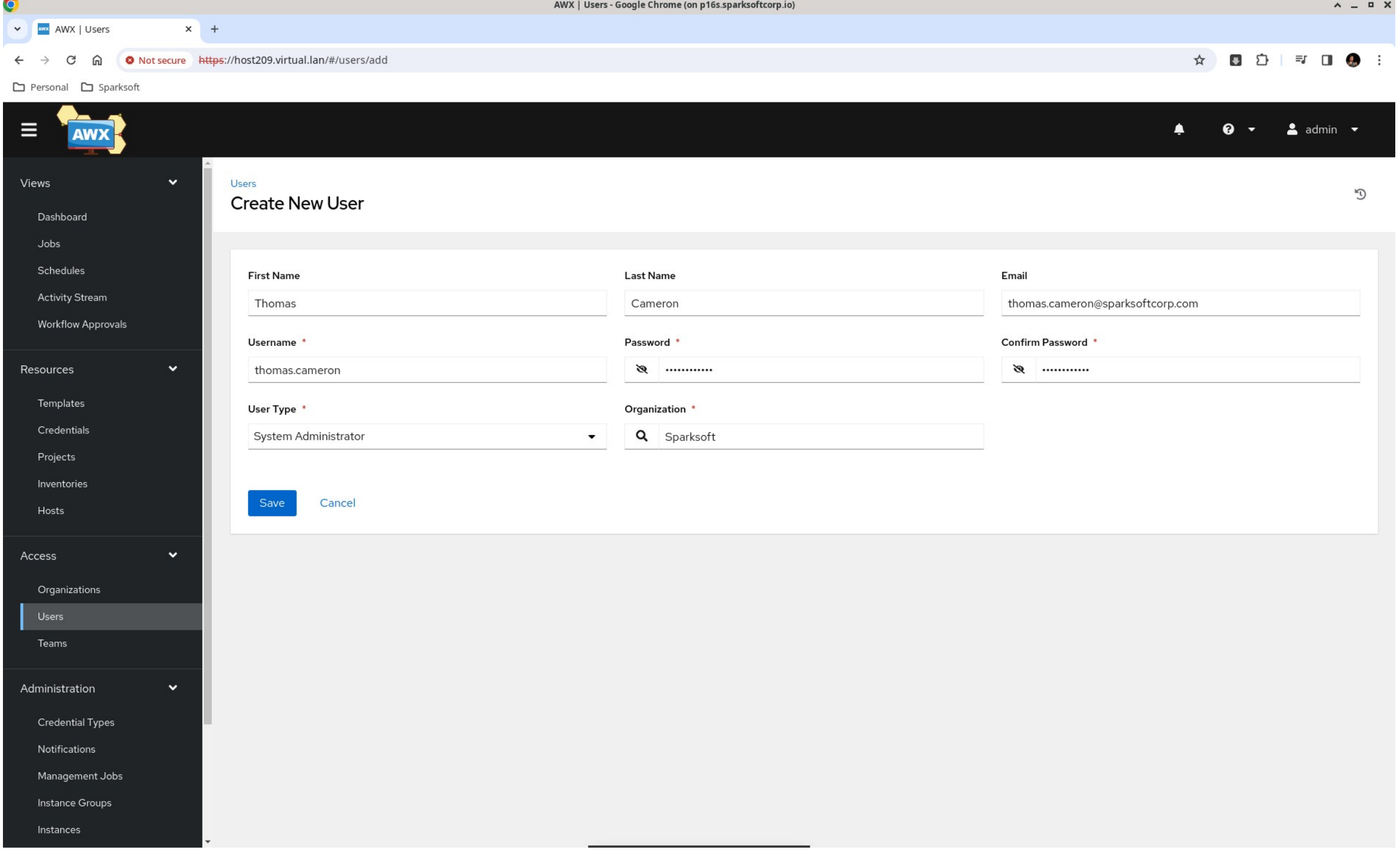
Password *
••••••••••••

Confirm Password *
••••••••••••

User Type *
Normal User
- Normal User
- System Auditor
- System Administrator

Organization *

Save Cancel


AWX | Users - Google Chrome (on p16s.sparksoftcorp.io)
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Create New User
First Name
Thomas
Last Name
Cameron
Email
thomas.cameron@sparksoftcorp.com
Username *
thomas.cameron
Password *
Confirm Password *
User Type *
System Administrator
Organization *
Sparksoft
Save
Cancel

AWX | thomas.cameron - Google Chrome (on p16s.sparksoftcorp.io)

AWX | thomas.cameron

Not secure https://host209.virtual.lan/#/users/2/details

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Users > thomas.cameron

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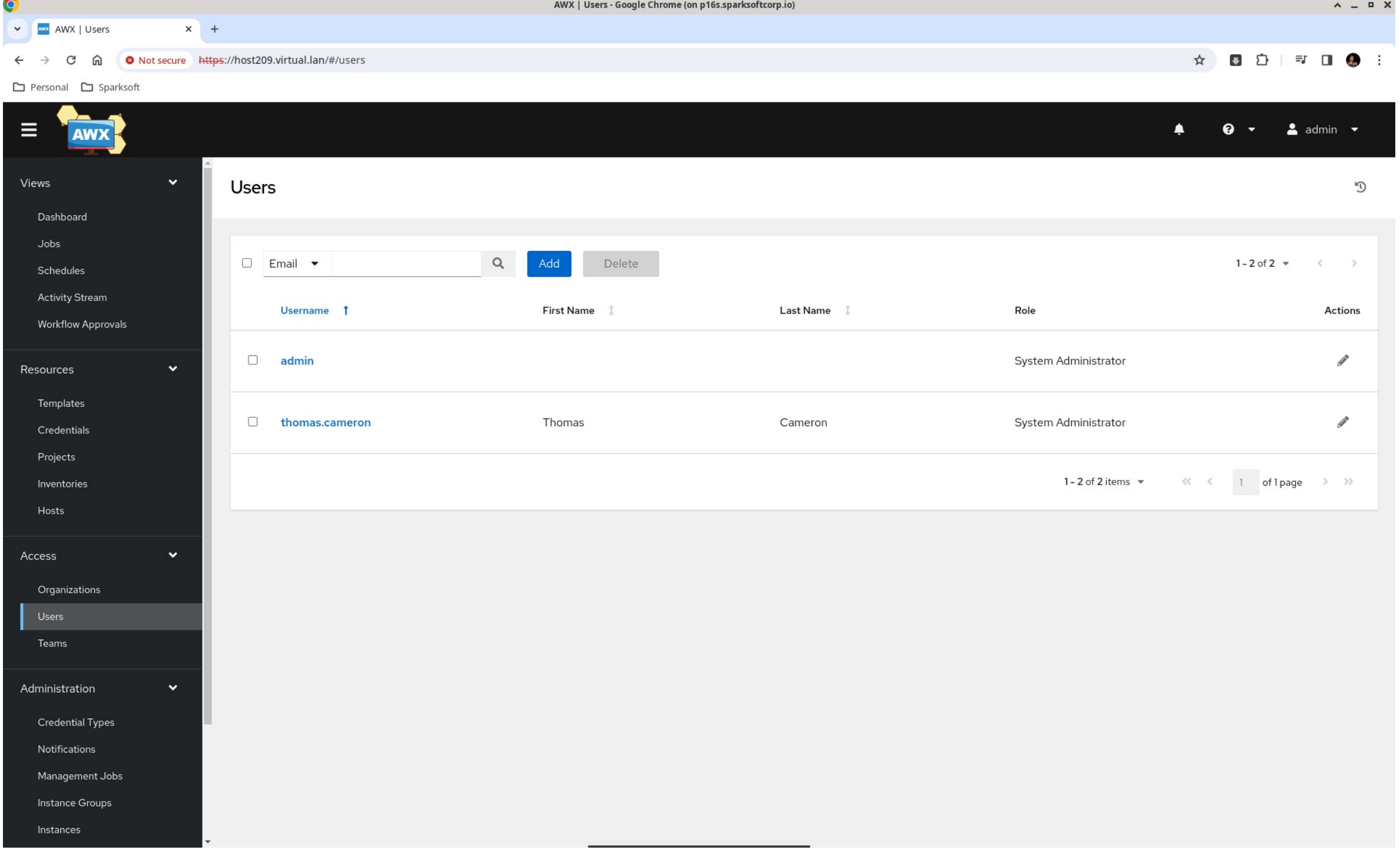
First Name	Thomas	**Last Name**	Cameron	**Email**	thomas.cameron@sparksoftcorp.com
Username	thomas.cameron	**User Type**	System Administrator	**Created**	3/15/2024, 2:28:53 PM

Edit Delete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Last Name
Role
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admin
System Administrator
thomas.cameron
Thomas
Cameron
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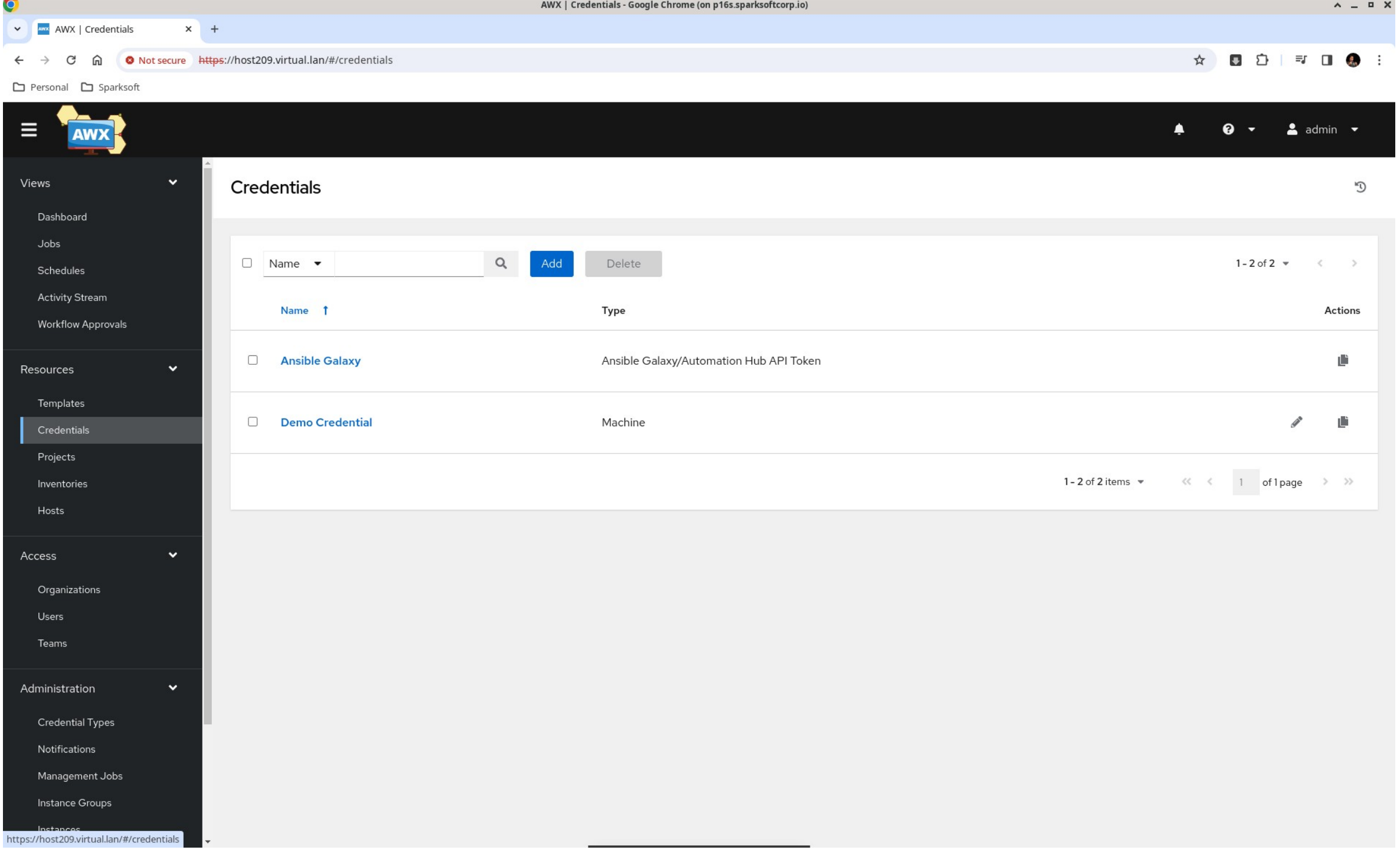
Credentials

Github


AWX | Credentials - Google Chrome (on p16s.sparksoftcorp.io)
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Ansible Galaxy/Automation Hub API Token
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Credentials

Create New Credential

Name * GitHub

Description Thomas's GitHub Repository

Organization Sparksoft

Credential Type * Source Control

Type Details

Username tdcam

Password ••••••••••••••••••••••••••••

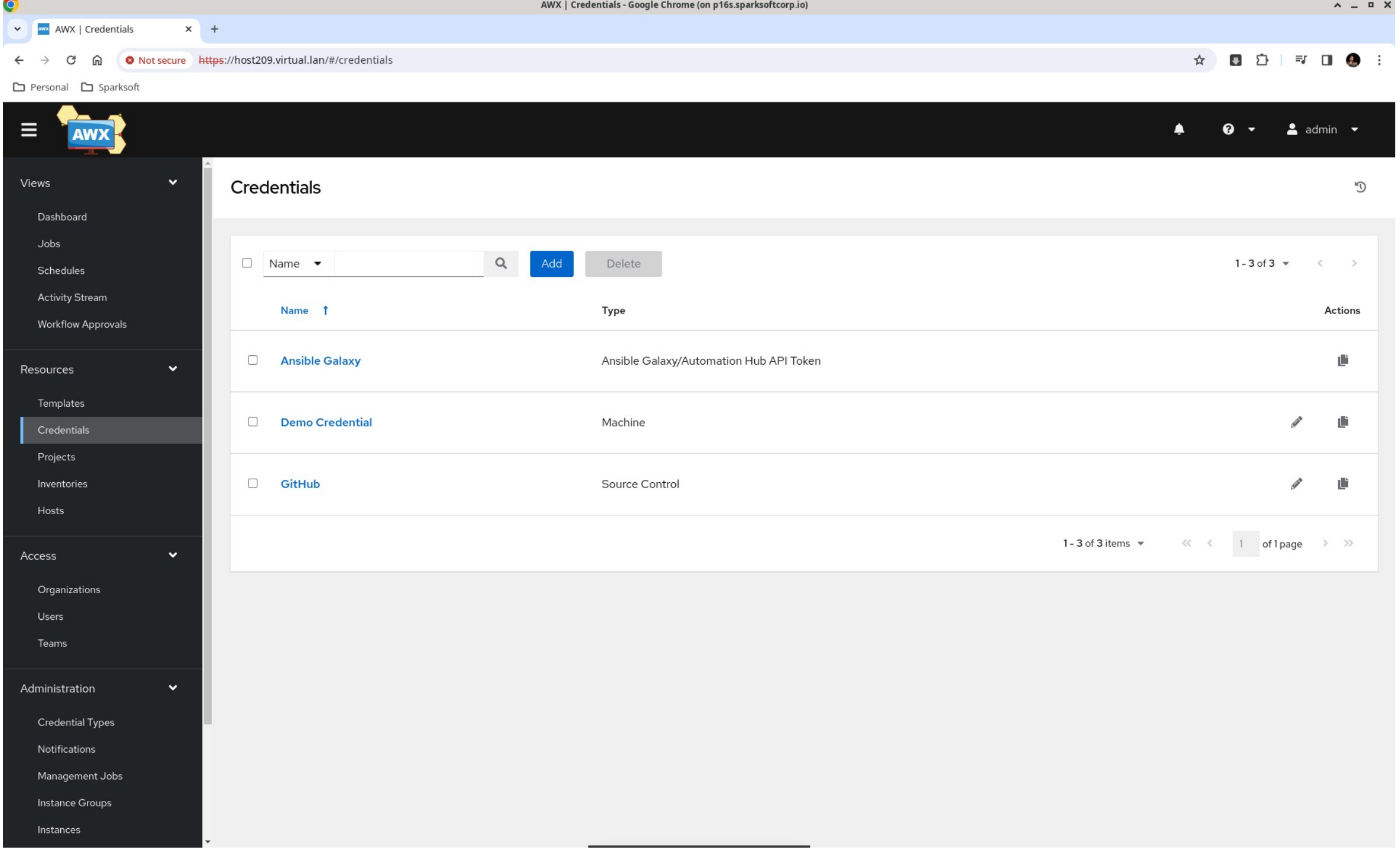
SCM Private Key

id_rsa Browse... Clear

```
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjE[redacted]AAABlwAAAAdzc2gtcn
NhAAAAAwEAAQAAAY[redacted]Bk/LqDJGucPyGggrcy/
nqdeS5SACyGAm0n0+[redacted]O+CzVw4tPG1ubBQjkuCYD
9URrXVSoL5FYdPo9Io[redacted]TyAybF1h3cETZB4xeK
```

Private Key Passphrase

Save Cancel


AWX | Credentials - Google Chrome (on p16s.sparksoftcorp.io)
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Ansible Galaxy/Automation Hub API Token
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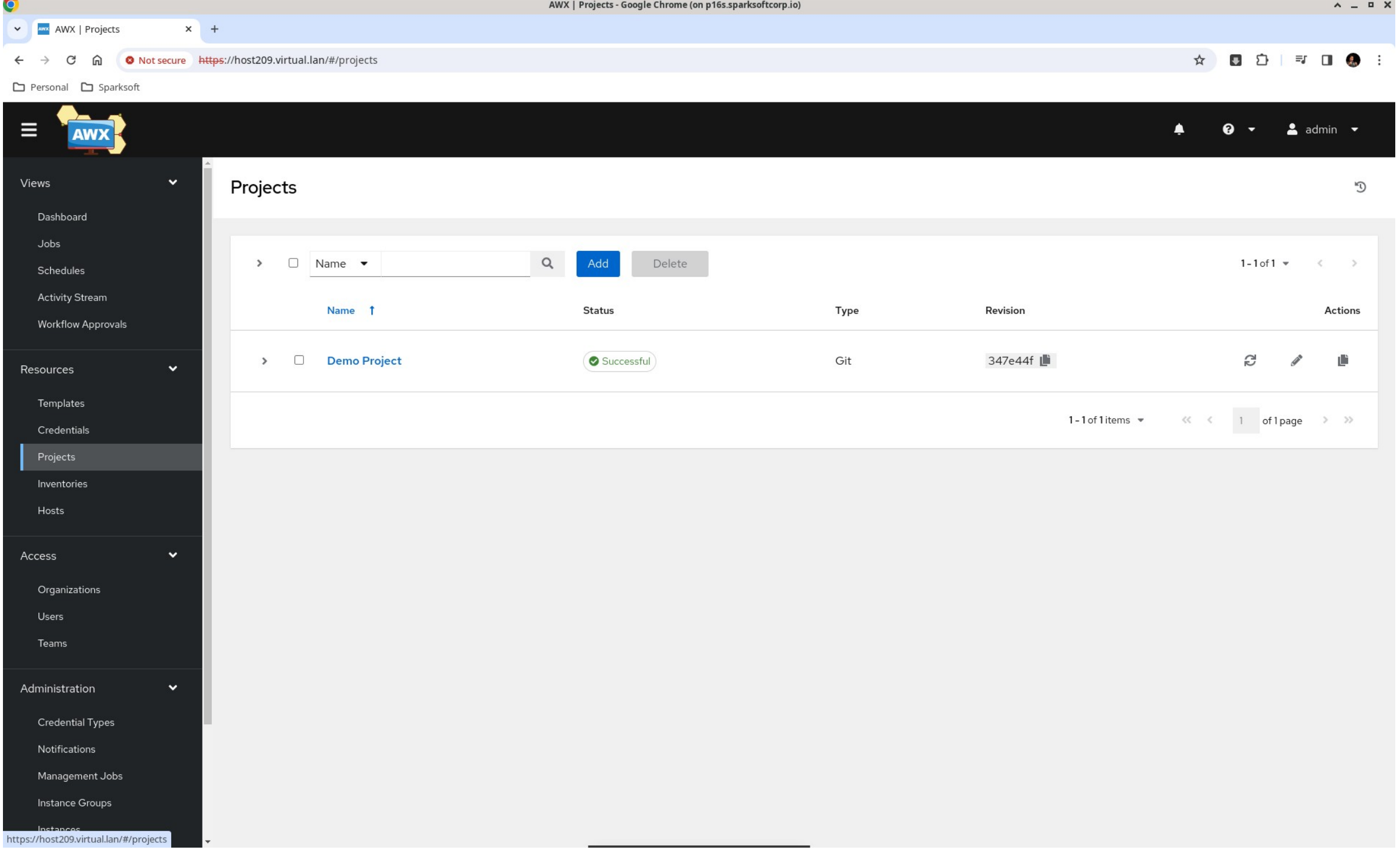
Setting up Ansible ping

A simple test to see if connectivity is right


AWX | Projects - Google Chrome (on p16s.sparksoftcorp.io)
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https://host209.virtual.lan/#/projects

tdcam/ansible-ping: My Ansible ping project - Google Chrome (on p16s.sparksoftcorp.io)

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

tdcam Added files

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

Local | Codespaces

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

ansible-ping

About

My Ansible ping project

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

https://github.com/tdcam/ansible-ping#

AWX | Projects - Google Chrome (on p16s.sparksoftcorp.io)

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

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

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Projects

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

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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

AWX | Ansible Ping - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Ansible Ping

tdcam/ansible-ping: My Ans

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

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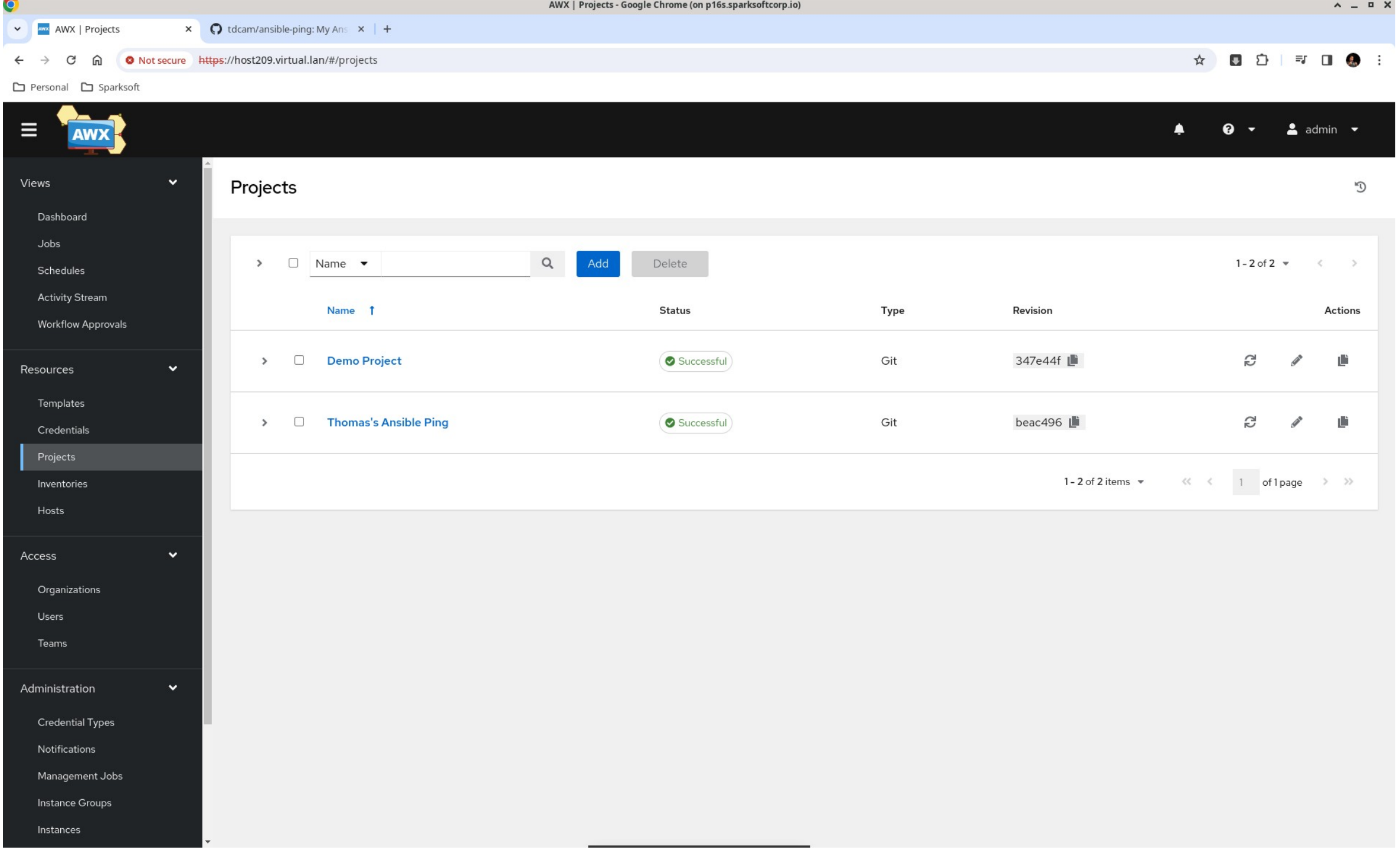
Last Job Status	Successful	**Name**	Ansible Ping	**Description**	Ansible ping playbook
Organization	Sparksoft	**Source Control Type**	Git	**Source Control Revision**	beac496
Source Control URL	git@github.com:tdcam/ansible-ping.git	**Source Control Credential**	Scm: GitHub	**Cache Timeout**	0 Seconds
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 Sync Delete


AWX | Projects - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Projects
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/projects
Personal
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Name
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Type
Revision
Actions
Demo Project
Successful
Git
347e44f
Thomas's Ansible Ping
Successful
Git
beac496
1 - 2 of 2 items
1
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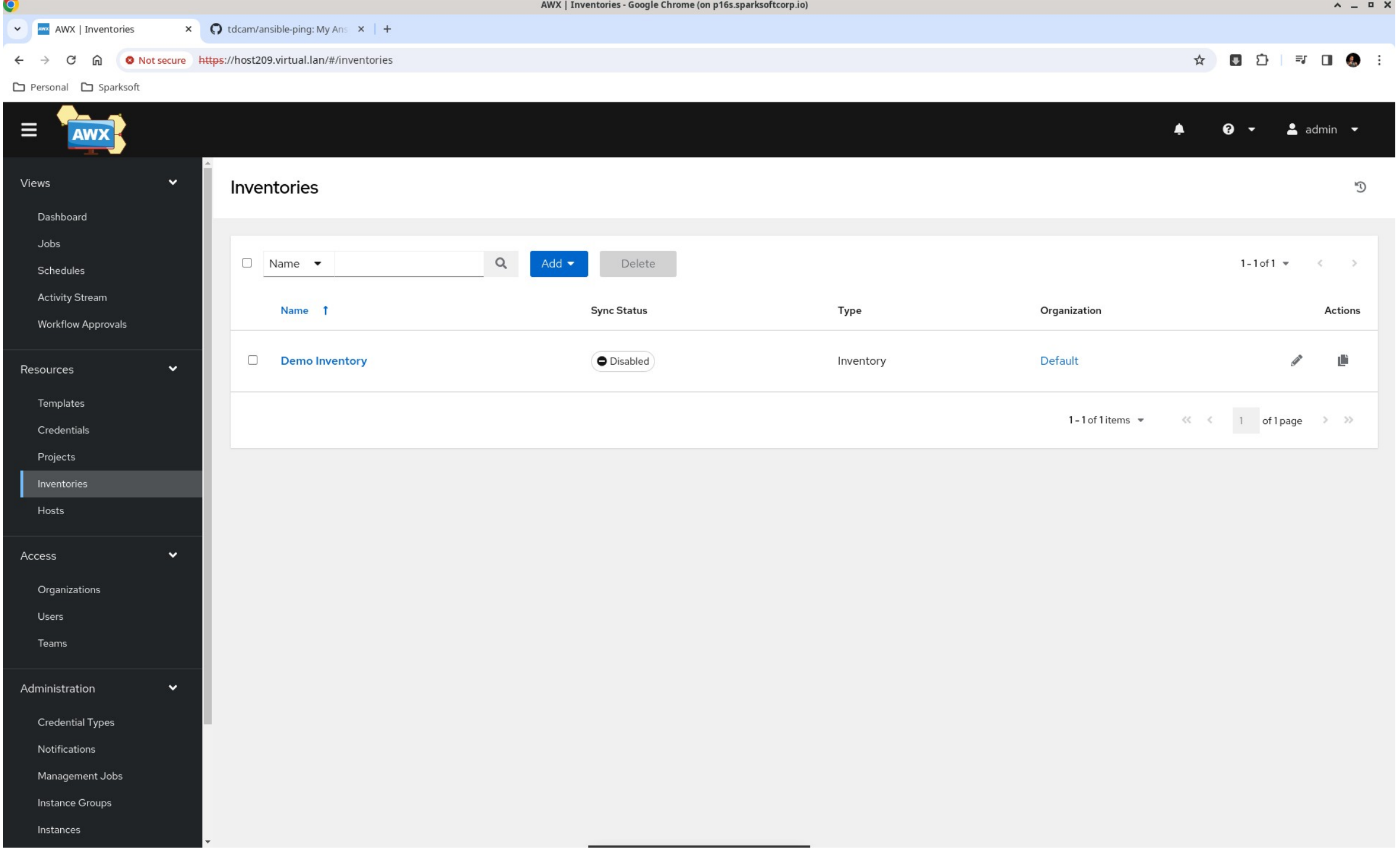
Ping inventory

What systems do you want to run this on?


AWX | Inventories - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Inventories
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/inventories
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Instance Groups
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Inventories
Name
Add
Delete
1 - 1 of 1
Name
Sync Status
Type
Organization
Actions
Demo Inventory
Disabled
Inventory
Default
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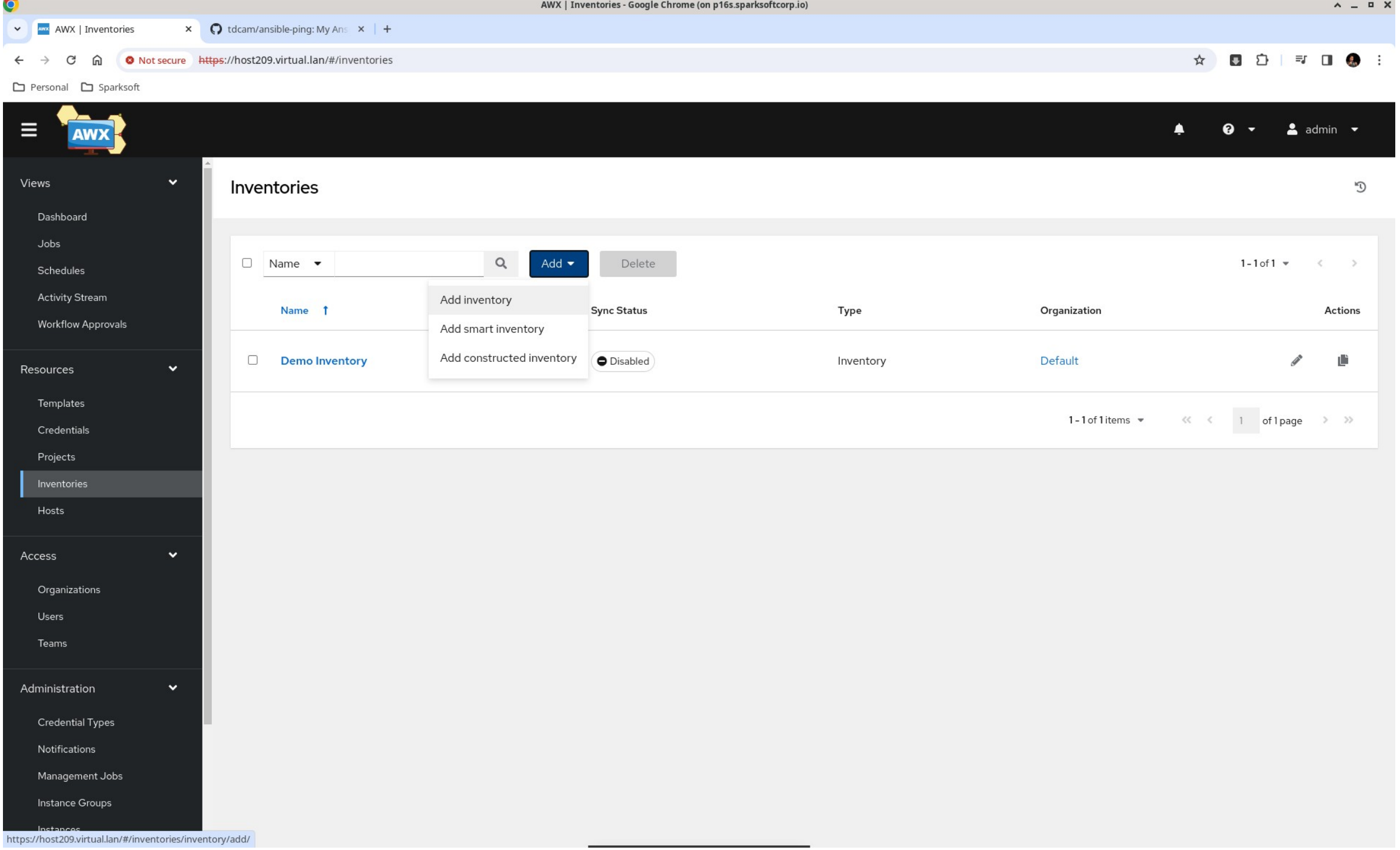
AWX | Inventories - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Inventories
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/inventories
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Inventories
Name
Add
Delete
1 - 1 of 1
Add inventory
Add smart inventory
Add constructed inventory
Name
Sync Status
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of 1 page
https://host209.virtual.lan/#/inventories/inventory/add/

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/ansible-ping: My Ans

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

Personal | Sparksoft

AWX admin

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Inventories

Create new inventory

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 - Google Chrome (on p16s.sparksoftcorp.io)

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 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 - Google Chrome (on p16s.sparksoftcorp.io)

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

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

Personal Sparksoft

AWX admin

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Inventories > WordPress Servers

Hosts

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Name | Add | Run Command | Delete

No Hosts Found

Please add Hosts to populate this list

AWX | Hosts - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Hosts

tdcam/ansible-ping: My Ans

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

Personal Sparksoft

AWX

admin

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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

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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 - 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 - Google Chrome (on p16s.sparksoftcorp.io)

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

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Inventories > WordPress Servers

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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

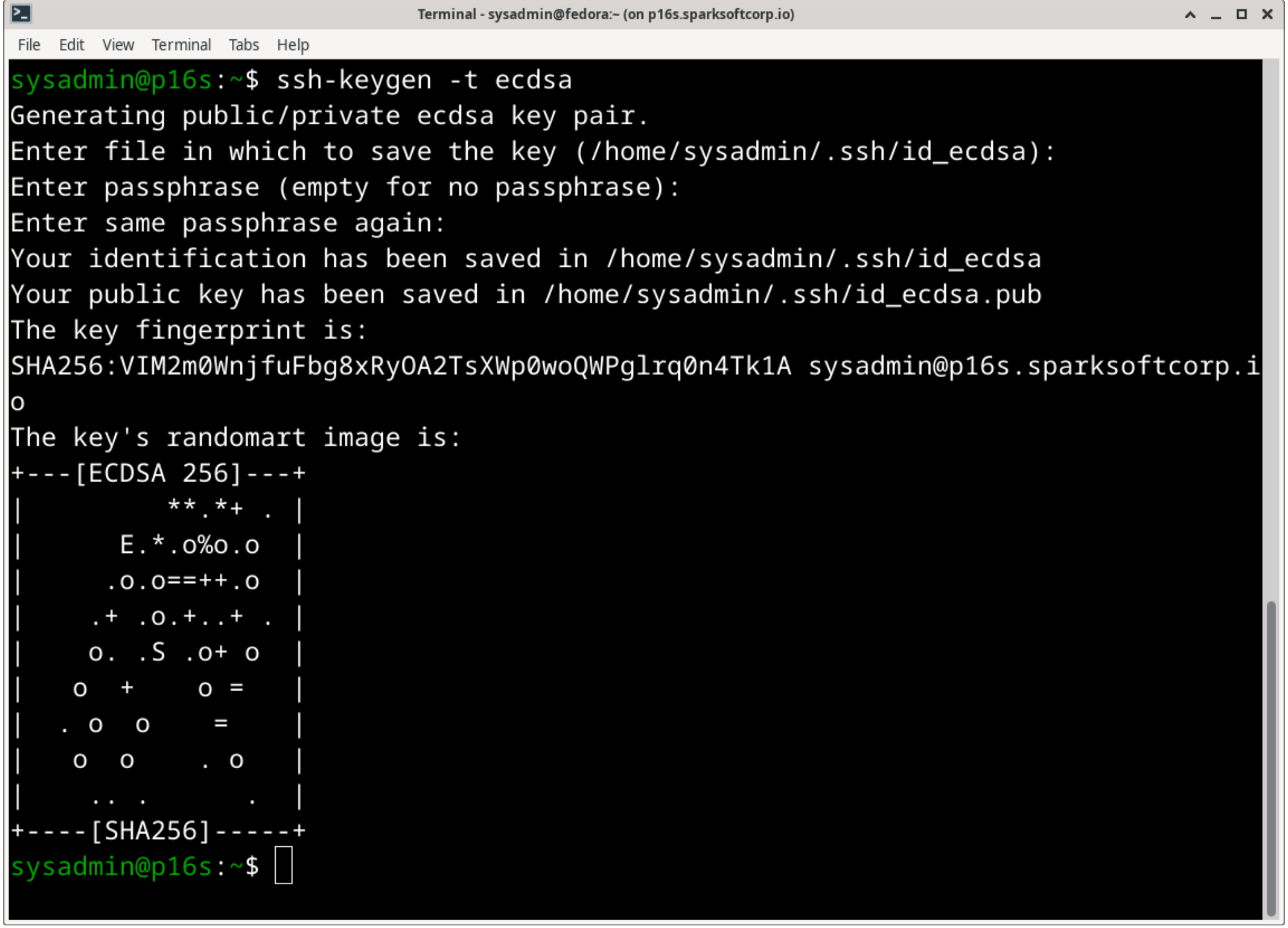
1 - 2 of 2 items | 1 of 1 page

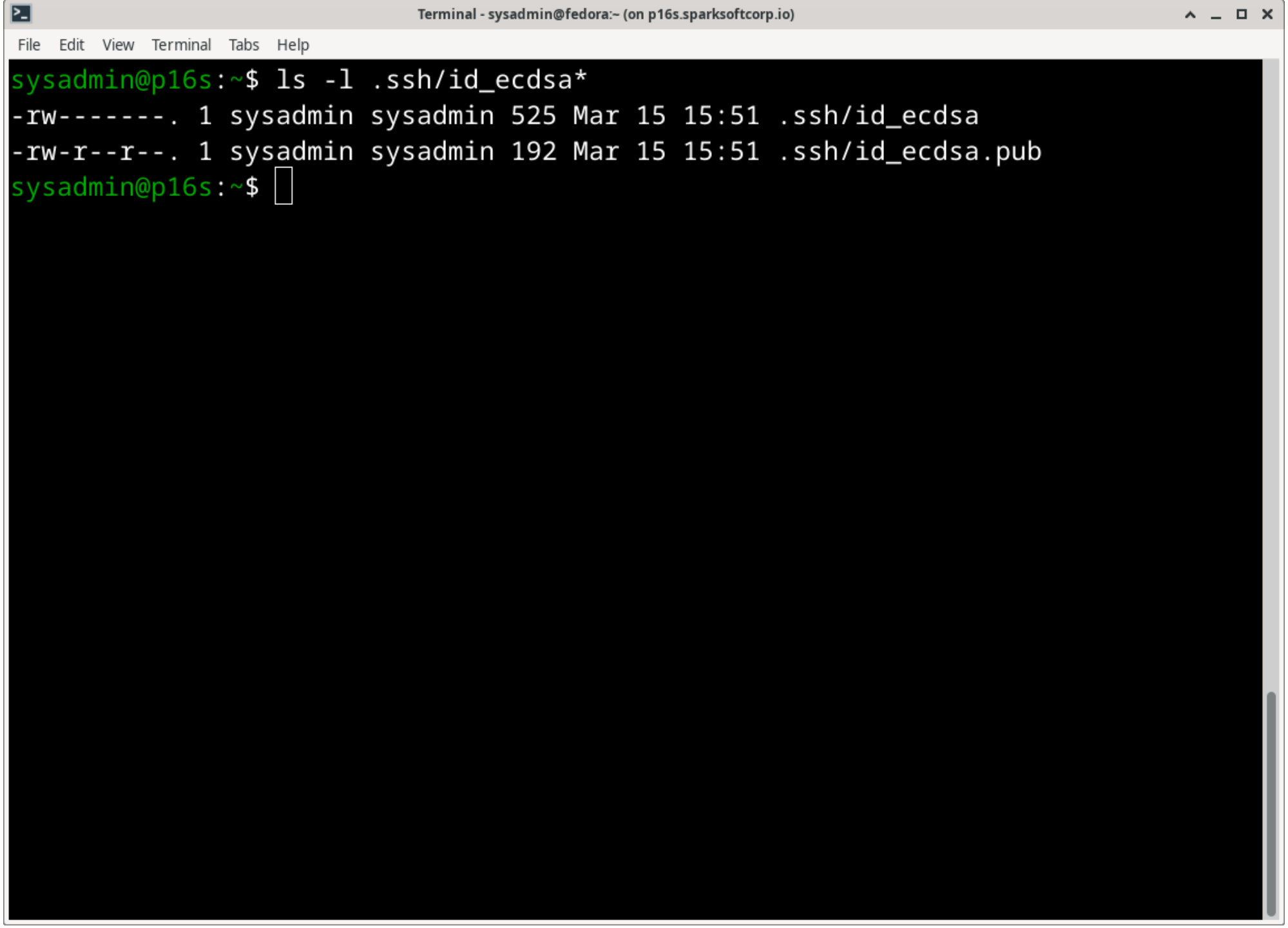
Set up ssh

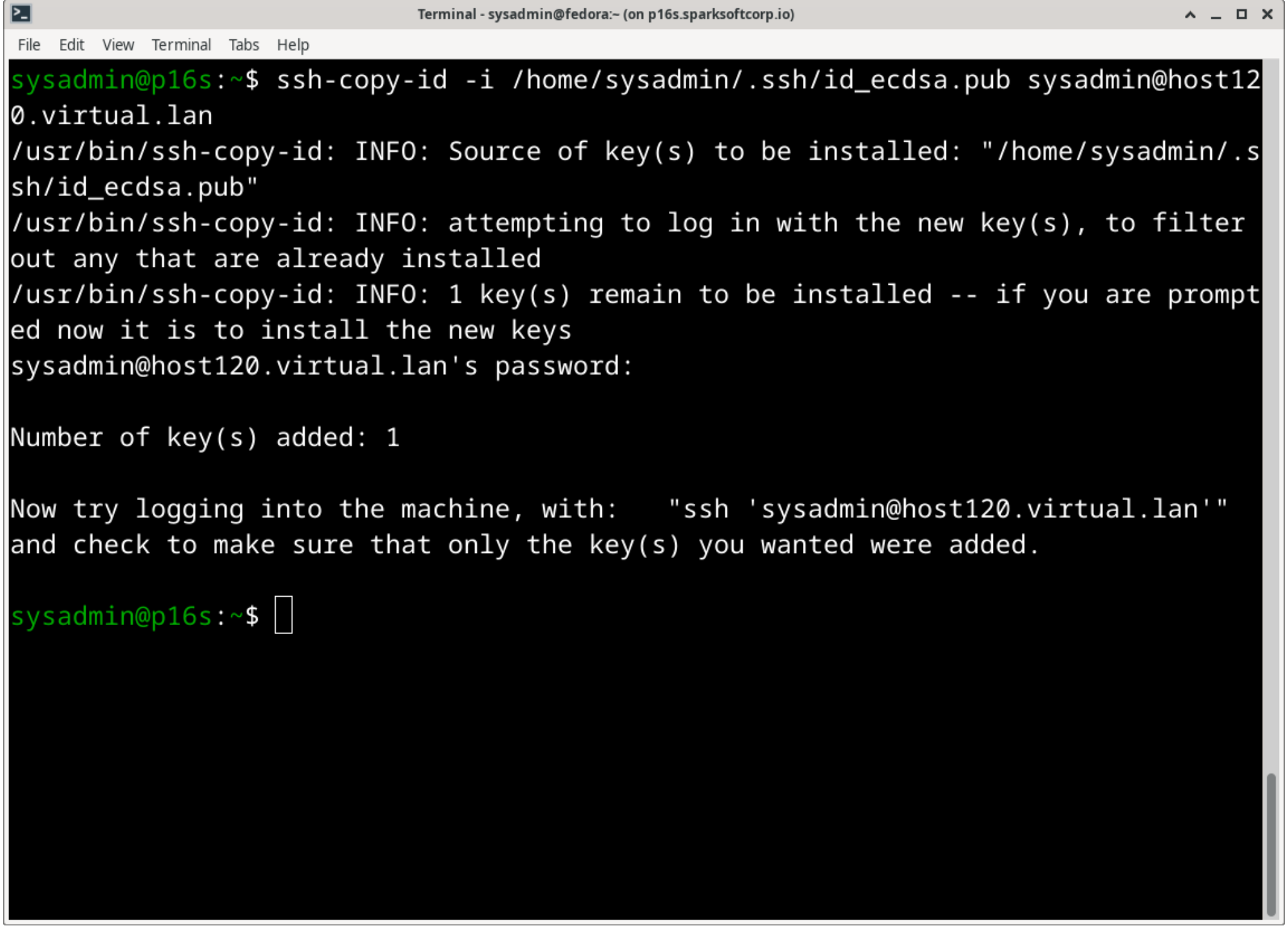
It’s preferred that you have passwordless ssh logins

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.io
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:~$


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


Terminal - sysadmin@fedora:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
sysadmin@p16s:~$ ssh-copy-id -i /home/sysadmin/.ssh/id_ecdsa.pub sysadmin@host120.virtual.lan
/usr/bin/ssh-copy-id: INFO: Source of key(s) to be installed: "/home/sysadmin/.ssh/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 prompted 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:~$

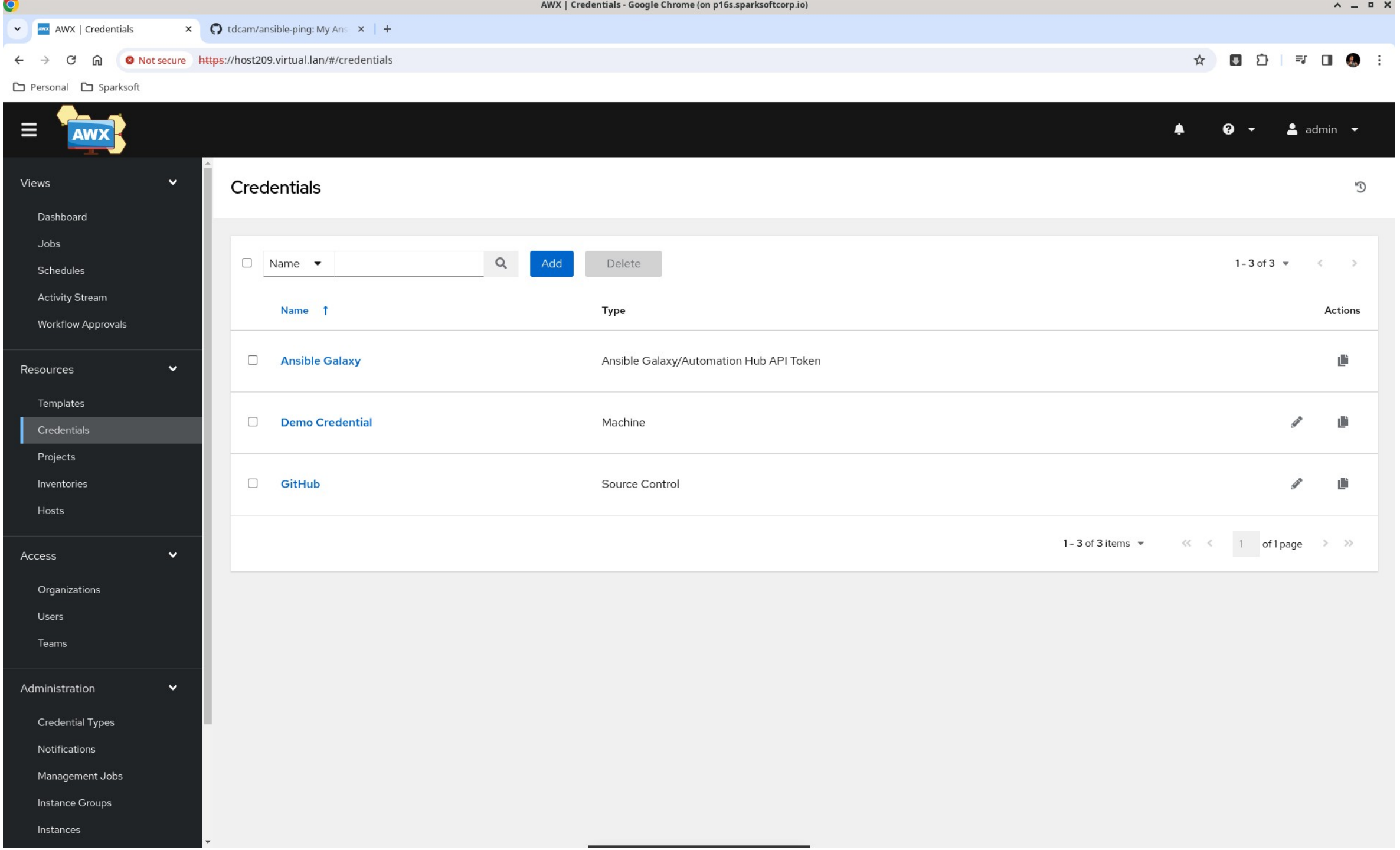
Terminal - sysadmin@fedora:~ (on p16s.sparksoftcorp.io)

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 - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Credentials
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/credentials
Personal
Sparksoft
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Delete
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Type
Actions
Ansible Galaxy
Ansible Galaxy/Automation Hub API Token
Demo Credential
Machine
GitHub
Source Control
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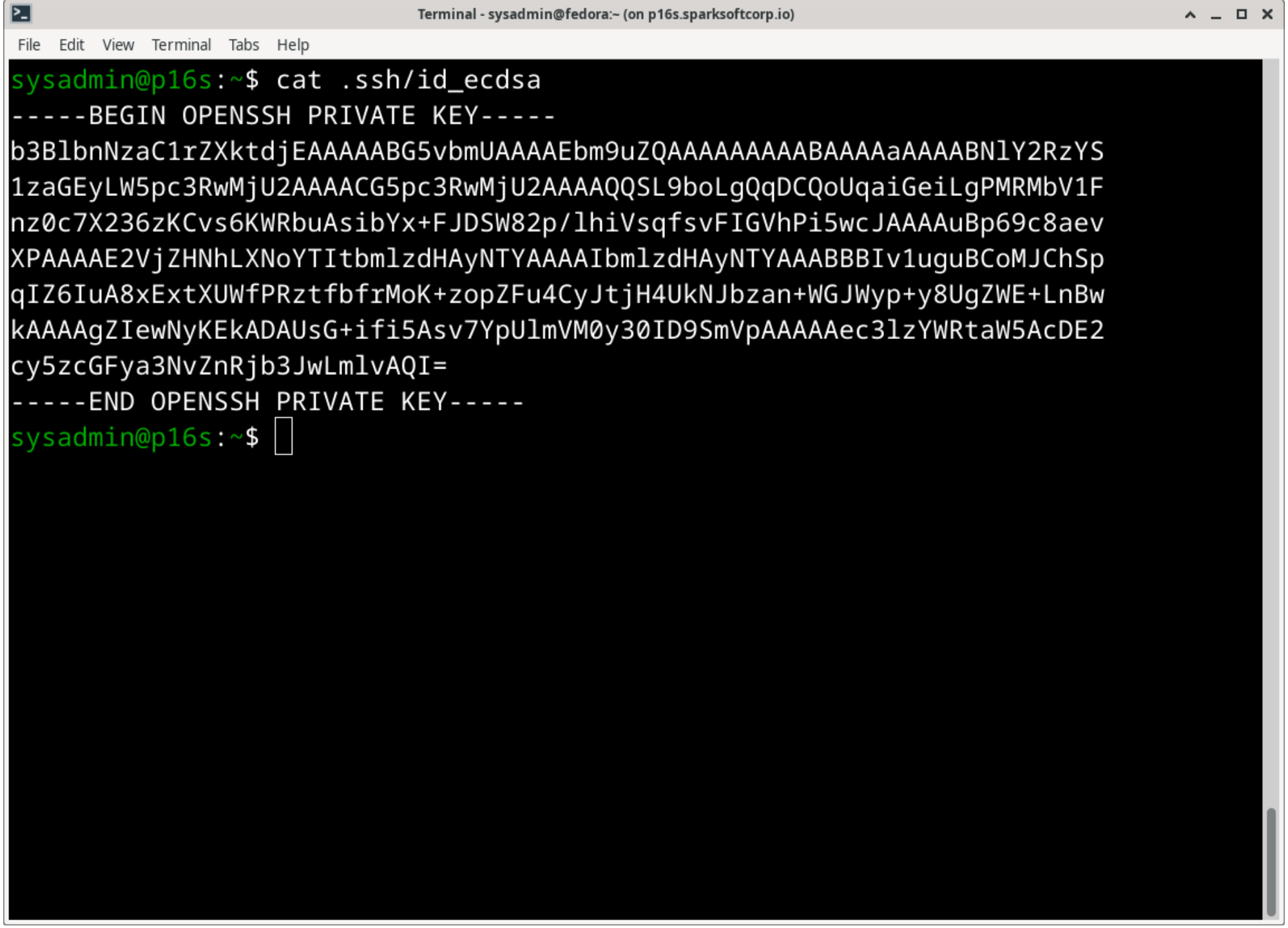
of 1 page


Terminal - sysadmin@fedora:~ (on p16s.sparksoftcorp.io)
File Edit View Terminal Tabs Help
sysadmin@p16s:~$ cat .ssh/id_ecdsa
-----BEGIN OPENSSH PRIVATE KEY-----
b3BlbnNzaC1rZXktdjEAAAAABG5vbmUAAAAEbm9uZQAAAAAAAAABAAAAaAAAABNlY2RzYS
1zaGEyLW5pc3RwMjU2AAAACG5pc3RwMjU2AAAAQQSL9boLgQqDCQoUqaiGeiLgPMRMbV1F
nz0c7X236zKCvs6KWRbuAsibYx+FJDSW82p/lhiVsqfsvFIGVhPi5wcJAAAAuBp69c8aev
XPAAAAE2VjZHNhLXNoYTItbmlzdHAyNTYAAAAIbmlzdHAyNTYAAABBBIv1uguBCoMJChSp
qIZ6IuA8xExtXUWfPRztfbfrMoK+zopZFu4CyJtjH4UkNJbzan+WGJWyp+y8UgZWE+LnBw
kAAAAgZIewNyKEkADAUsG+ifi5Asv7YpUlmVM0y30ID9SmVpAAAAAec3lzYWRtaW5AcDE2
cy5zcGFya3NvZnRjb3JwLmlvAQI=
-----END OPENSSH PRIVATE KEY-----
sysadmin@p16s:~$

AWX | Credentials - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Credentials

tdcam/ansible-ping: My Ans

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

Personal Sparksoft

AWX

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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+ifi5Asv7YpUlmVM0y30ID9SmVpAAAAAec3lzYWRtaW5AcDE2
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

Privilege Escalation Username

AWX | Credentials - Google Chrome (on p16s.sparksoftcorp.io)

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

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

Personal | Sparksoft

AWX admin

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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
qIZ6IuA8xExtXUWfPRztfbfrMoK+zopZFu4CyJtjH4UkNJbzan+WGJWyp+y8UgZWE+LnBw
kAAAAgZlewNyKEkADAUsG+ifi5Asv7YpUlmVM0y30ID9SmVpAAAAAec3lzYWRtaW5AcDE2
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

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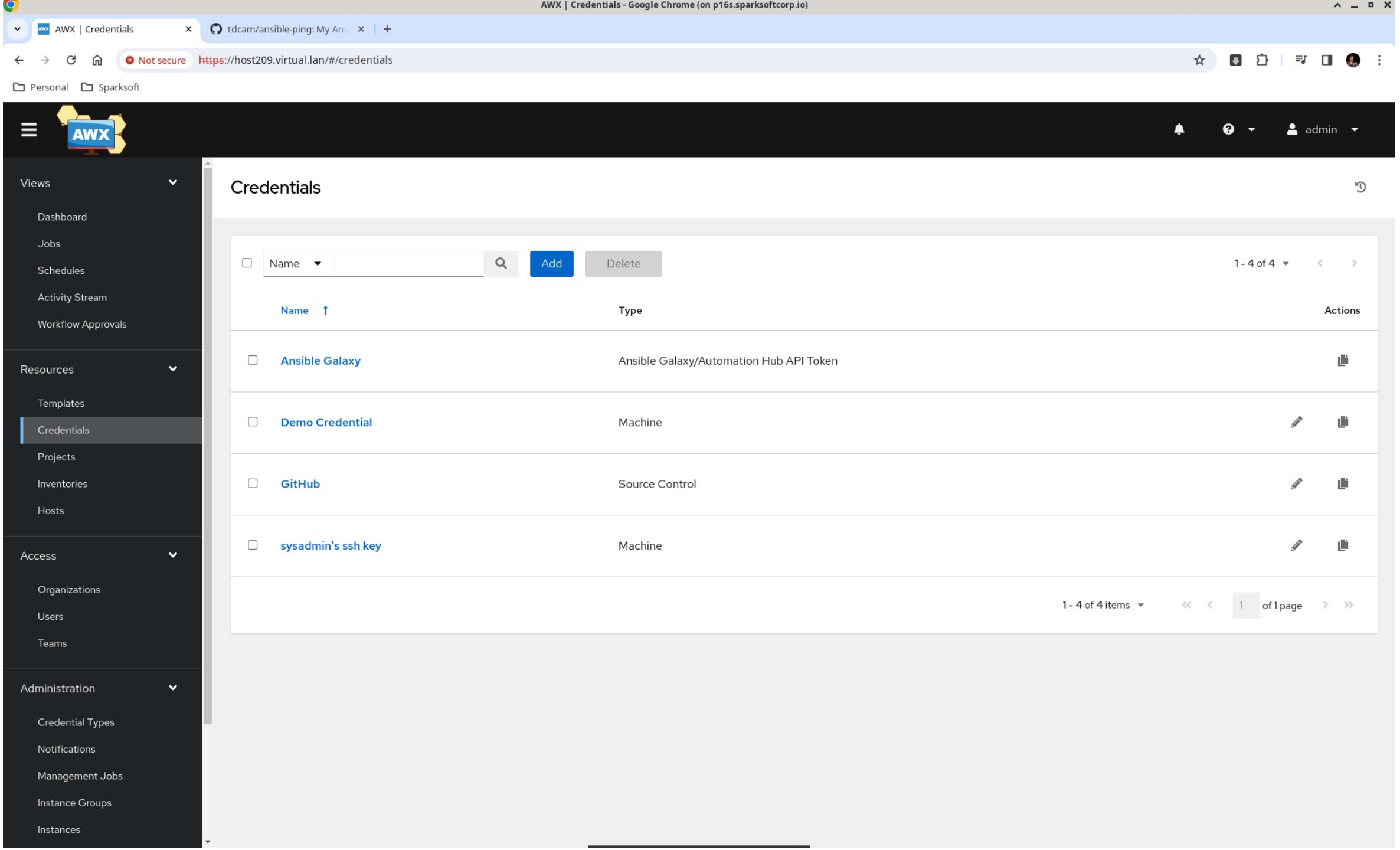
Credentials > sysadmin's ssh key

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


AWX | Credentials - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Credentials
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/credentials
Personal
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Demo Credential
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Source Control
sysadmin's ssh key
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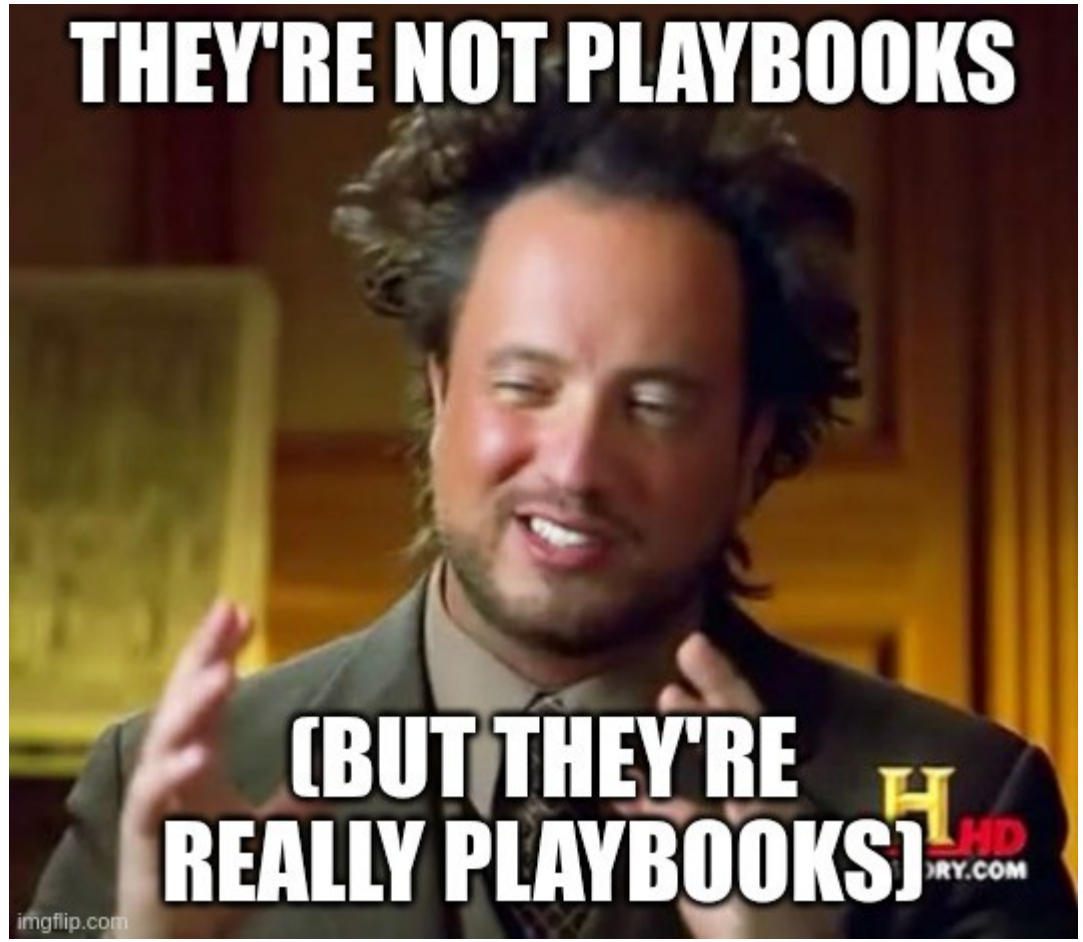
Ping template

They’re not playbooks


THEY'RE NOT PLAYBOOKS
(BUT THEY'RE REALLY PLAYBOOKS)
imgflip.com

AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Templates

tdcam/ansible-ping: My Ans

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

Personal Sparksoft

AWX

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Execution Environments

Topology View

Settings

Templates

Name

Add

Delete

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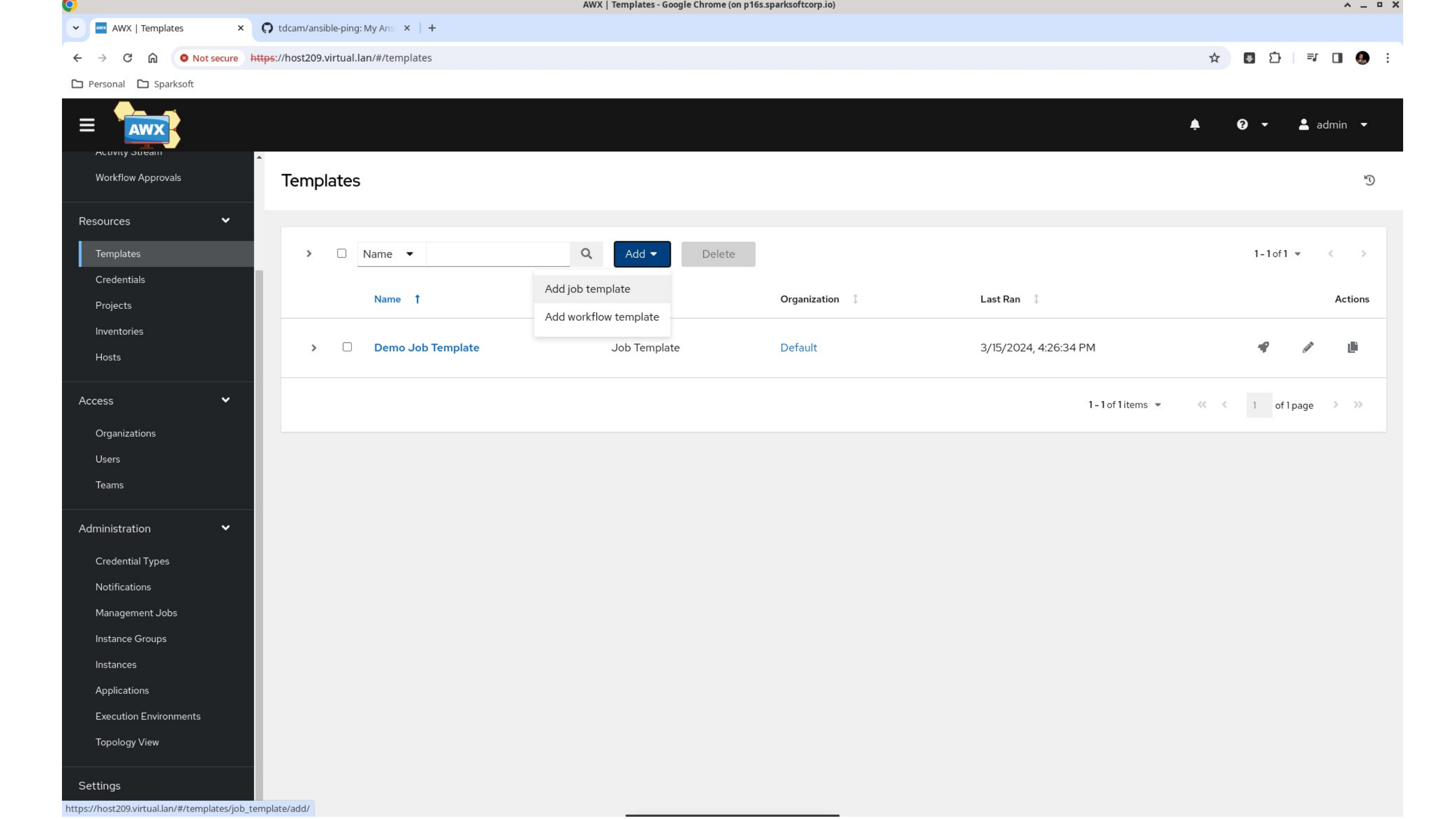
Name	Type	Organization	Last Ran	Actions
Demo Job Template	Job Template	Default	3/15/2024, 4:26:34 PM	

1 - 1 of 1 items

1 of 1 page


AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Templates
tdcam/ansible-ping: My Ans
Not secure
https://host209.virtual.lan/#/templates
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of 1 page
https://host209.virtual.lan/#/templates/job_template/add/

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/ansible-ping: My Ans

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

Personal | Sparksoft

AWX admin

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Templates

Create New Job Template

Name * Ping Managed Systems

Description This pings managed systems

Job Type * Run — Prompt on launch

Inventory * WordPress Servers — Prompt on launch

Project * Thomas's Ansible Ping

Execution Environment — Prompt on launch

Playbook * ping.yml

Credentials SSH: sysadmin's ssh k... — Prompt on launch

Labels — Prompt on launch

Variables YAML JSON — Prompt on launch

```
1 ---
2
```

Forks 0 — Prompt on launch

Limit — Prompt on launch

Verbosity 0 (Normal) — Prompt on launch

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/ansible-ping: My Ans

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: 0

Limit Prompt on launch:

Verbosity Prompt on launch: 0 (Normal)

Job Slicing Prompt on launch: 1

Timeout Prompt on launch: 0

Show Changes Prompt on launch: 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 Systems - Google Chrome (on p16s.sparksoftcorp.io)

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

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Details
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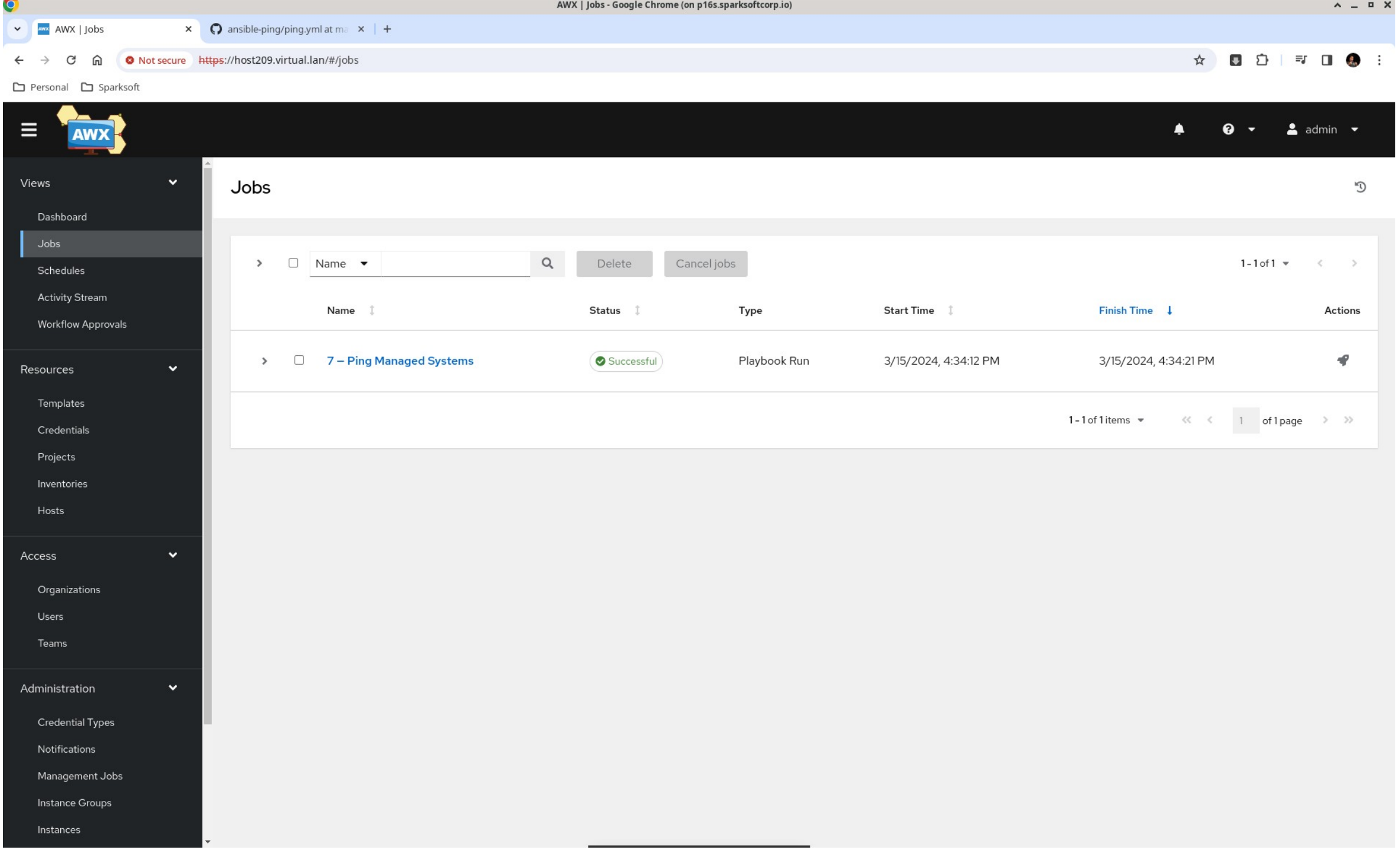
Ping Managed Systems Successful

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 - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Jobs
ansible-ping/ping.yml at ma
Not secure
https://host209.virtual.lan/#/jobs
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Finish Time
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7 – Ping Managed Systems
Successful
Playbook Run
3/15/2024, 4:34:12 PM
3/15/2024, 4:34:21 PM
1 - 1 of 1 items
1
of 1 page

Apache httpd Project

Same as before

tdcam/apache-install-rhel: A repository of Ansible playbooks to install Apache HTTPD - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Projects
tdcam/apache-install-rhel: A
github.com/tdcam/apache-install-rhel/tree/main
Personal
Sparksoft

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 - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Projects

tdcam/apache-install-rhel: A

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

Personal Sparksoft

admin

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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 Installation - Google Chrome (on p16s.sparksoftcorp.io)

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 - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/apache-install-rhel: A

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

Personal | Sparksoft

AWX admin

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Inventories

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

```
---
```

Save Cancel

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Inventories > WordPress Web Servers

Details

Back to Inventories | Details | Access | Groups | Hosts | Sources | Jobs | Job Templates

Name WordPress Web Servers
Description Servers running Wordpress
Type Inventory
Organization Sparksoft
Total hosts 0

Variables YAML JSON

```
1 ---
```

Created 3/15/2024, 5:40:32 PM by admin
Last Modified 3/15/2024, 5:40:32 PM by admin

Edit Delete

admin

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Inventories > WordPress Web Servers

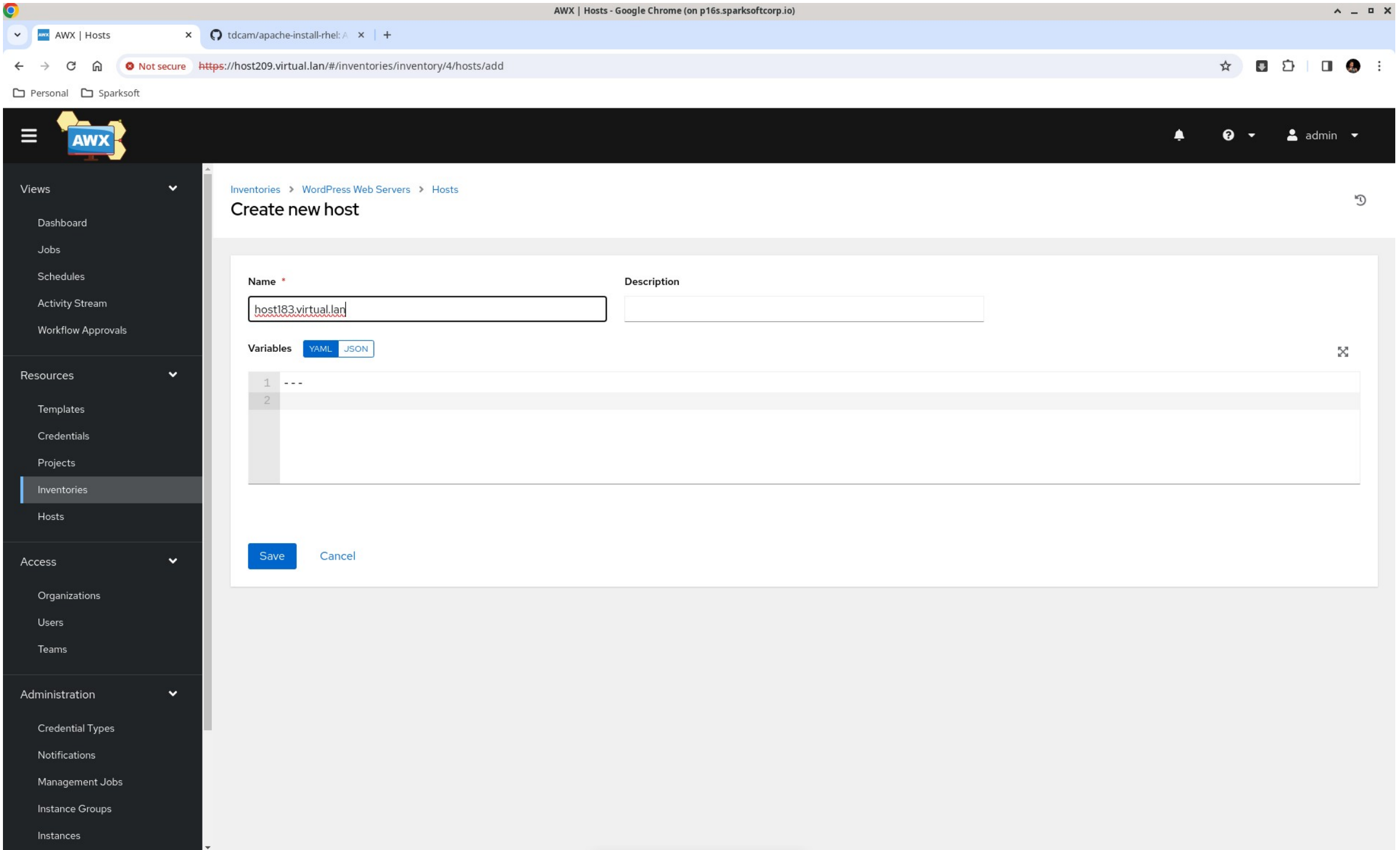
Hosts

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 - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Hosts
tdcam/apache-install-rhel:
Not secure
https://host209.virtual.lan/#/inventories/inventory/4/hosts/add
Personal
Sparksoft
AWX
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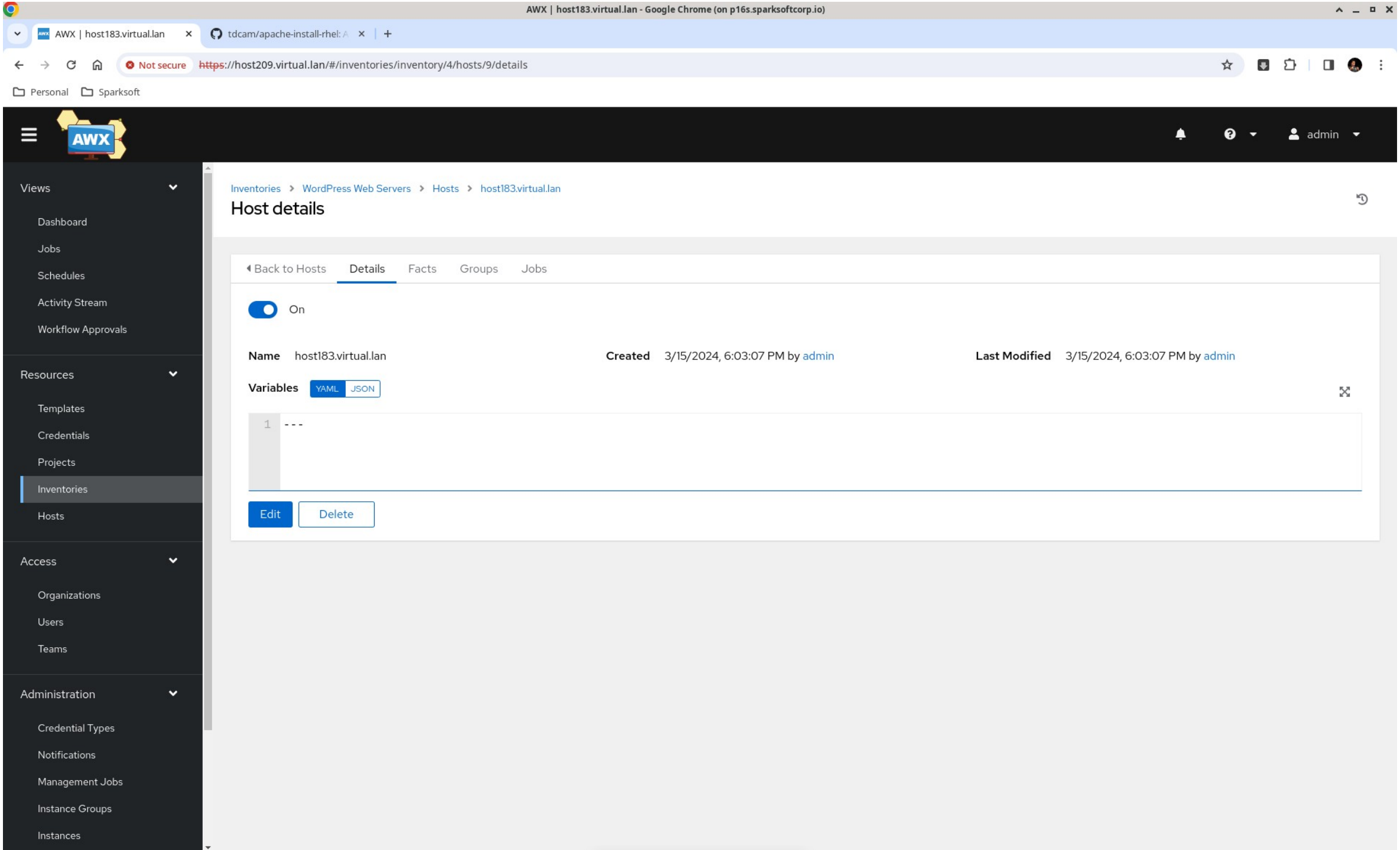
Instances
Inventories > WordPress Web Servers > Hosts
Create new host
Name *
host183.virtual.lan
Description
Variables
YAML
JSON
1 ---
2
Save
Cancel


AWX | host183.virtual.lan - Google Chrome (on p16s.sparksoftcorp.io)
AWX | host183.virtual.lan
tdcam/apache-install-rhel:
Not secure
https://host209.virtual.lan/#/inventories/inventory/4/hosts/9/details
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Inventories > WordPress Web Servers > Hosts > host183.virtual.lan
Host details
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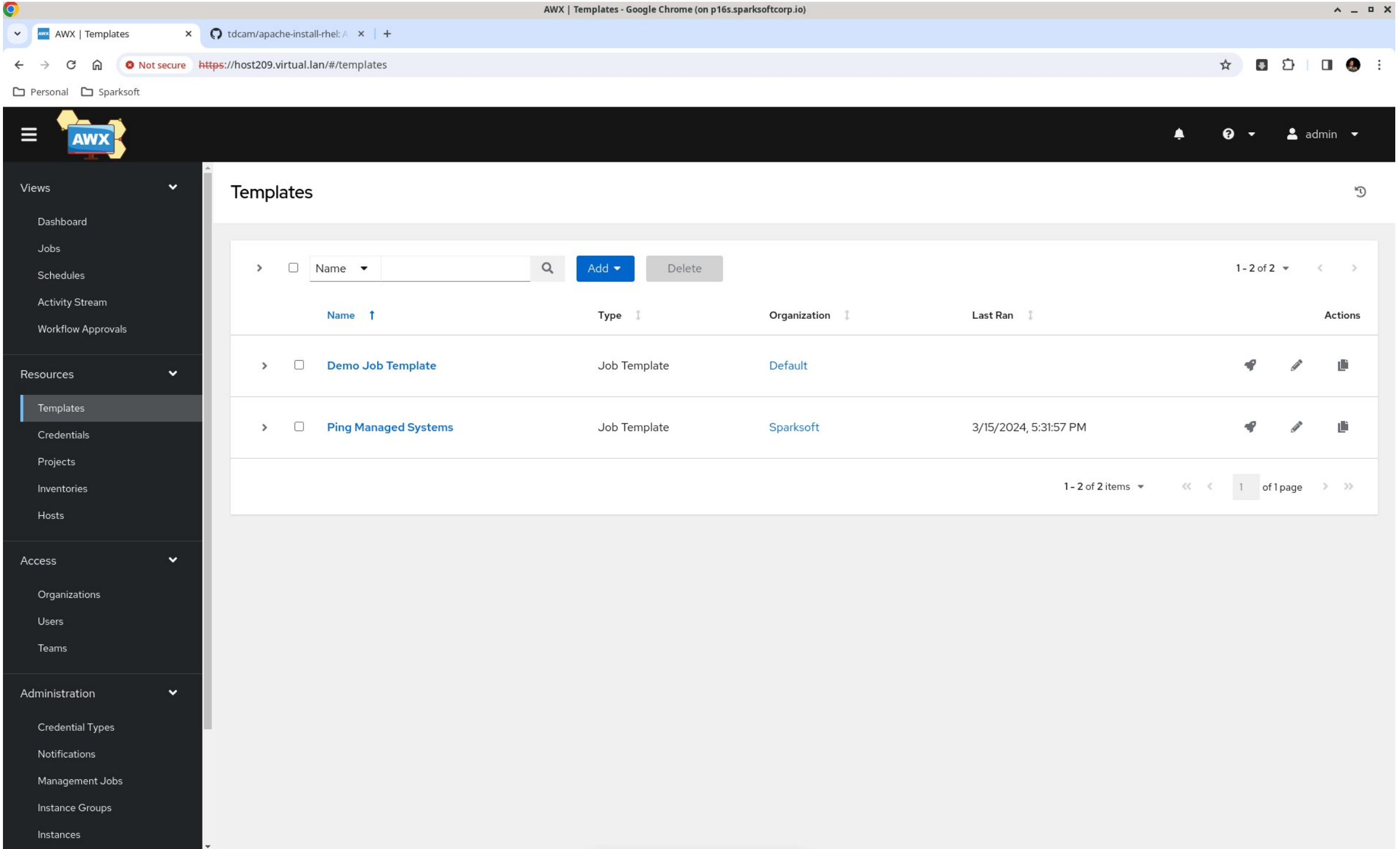
Jobs
On
Name host183.virtual.lan
Created 3/15/2024, 6:03:07 PM by admin
Last Modified 3/15/2024, 6:03:07 PM by admin
Variables
YAML
JSON
1 ---
Edit
Delete

Apache create template

Same as before


AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Templates
tdcam/apache-install-rhel:
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https://host209.virtual.lan/#/templates
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3/15/2024, 5:31:57 PM
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AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/apache-install-rhel: A

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

Personal | Sparksoft

AWX | admin

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Templates

Create New Job Template

Name * Install Apache

Description Install Apache for WordPress

Job Type * Run — Prompt on launch

Inventory * WordPress Web Servers — Prompt on launch

Project * Thomas's Apache Installation

Execution Environment — Prompt on launch

Playbook * apache.yml

Credentials SSH: sysadmin's ssh k... — Prompt on launch

Labels — Prompt on launch

Variables YAML | JSON — Prompt on launch

```
1 ---
2
```

Forks 0 — Prompt on launch

Limit — Prompt on launch

Verbosity 0 (Normal) — Prompt on launch

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/apache-install-rhel: A

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

Personal | Sparksoft

AWX admin

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Variables YAML JSON Prompt on launch

```
1 ---
2
```

Forks Prompt on launch: 0

Limit Prompt on launch:

Verbosity Prompt on launch: 0 (Normal)

Job Slicing Prompt on launch: 1

Timeout Prompt on launch: 0

Show Changes Prompt on launch: Off

Instance Groups Prompt on launch

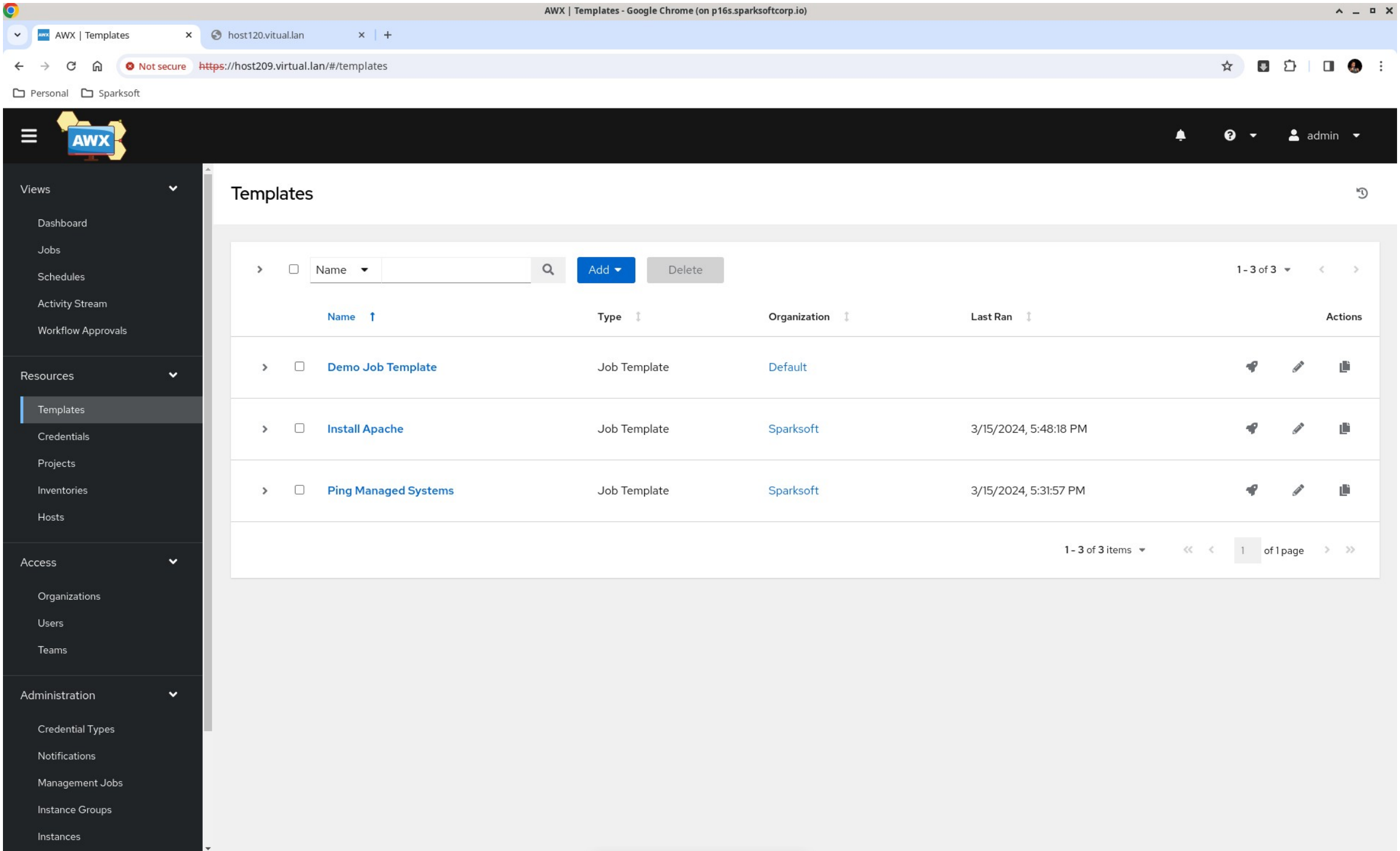
Job Tags Prompt on launch

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 - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Templates
host120.vitual.lan
Not secure
https://host209.virtual.lan/#/templates
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Sparksoft
3/15/2024, 5:48:18 PM
Ping Managed Systems
Job Template
Sparksoft
3/15/2024, 5:31:57 PM
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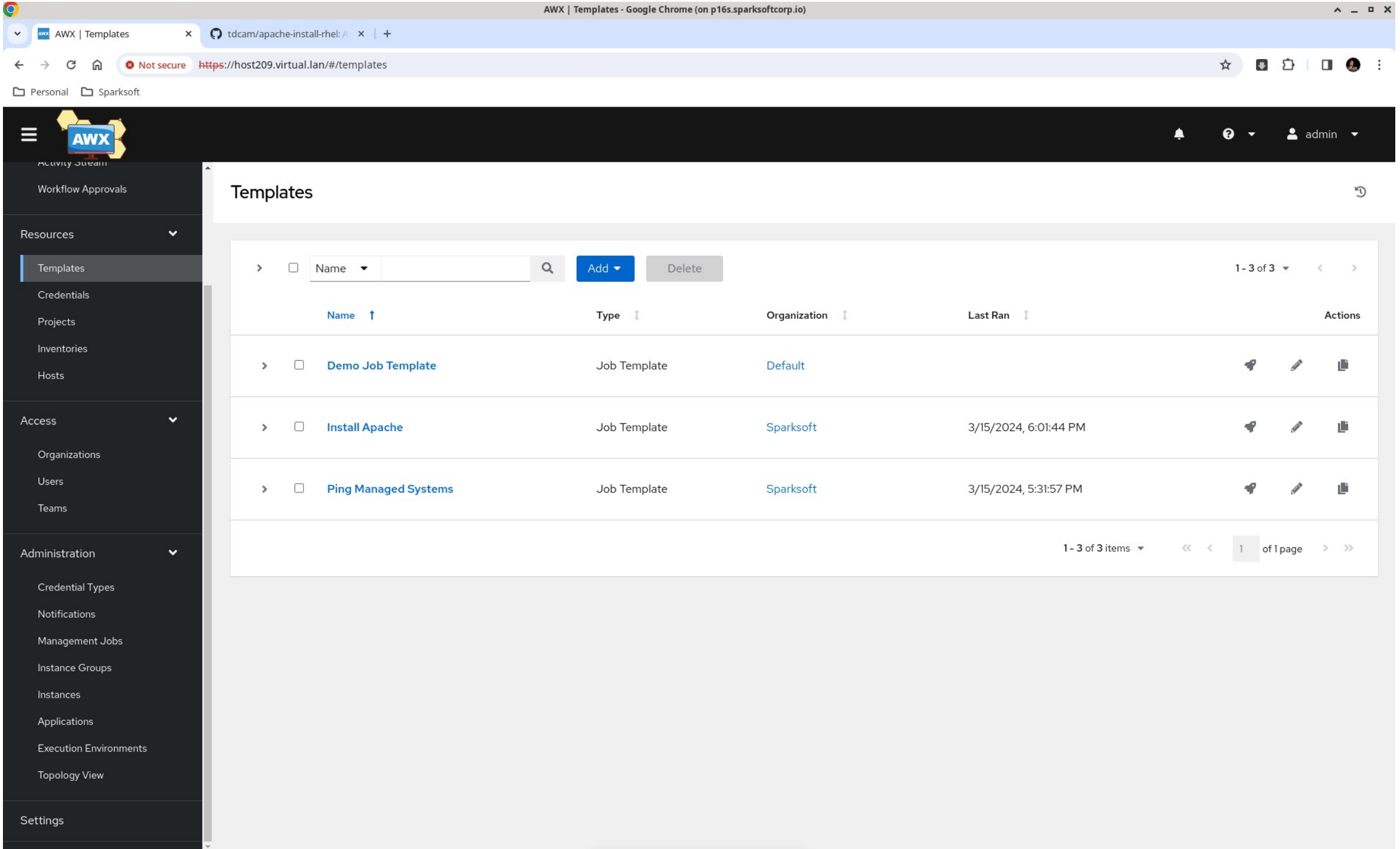
Apache installation

Same as before


AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)
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3/15/2024, 6:01:44 PM
Ping Managed Systems
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3/15/2024, 5:31:57 PM
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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

Workflow Approvals

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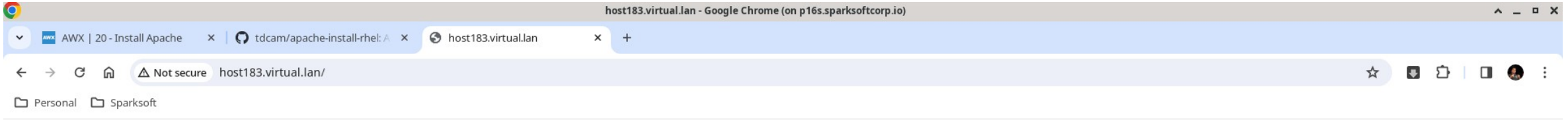
Install Apache Successful

Plays 1 Tasks 6 Hosts 1 Elapsed 00:00:13

Stdout

```
SSH password:

PLAY [Install Apache HTTPD] ********************************************** 18:08:33

TASK [Gathering Facts] *************************************************** 18:08:33
ok: [host183.virtual.lan]

TASK [install httpd] ***************************************************** 18:08:35
changed: [host183.virtual.lan]

TASK [deploy index.html] ************************************************* 18:08:38
ok: [host183.virtual.lan]

TASK [start httpd] ******************************************************* 18:08:39
changed: [host183.virtual.lan]

TASK [open firewall port 80] ********************************************* 18:08:41
changed: [host183.virtual.lan]

TASK [open firewall port 443] ******************************************** 18:08:42
changed: [host183.virtual.lan]

PLAY RECAP *************************************************************** 18:08:43
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

Files

main

Go to file t

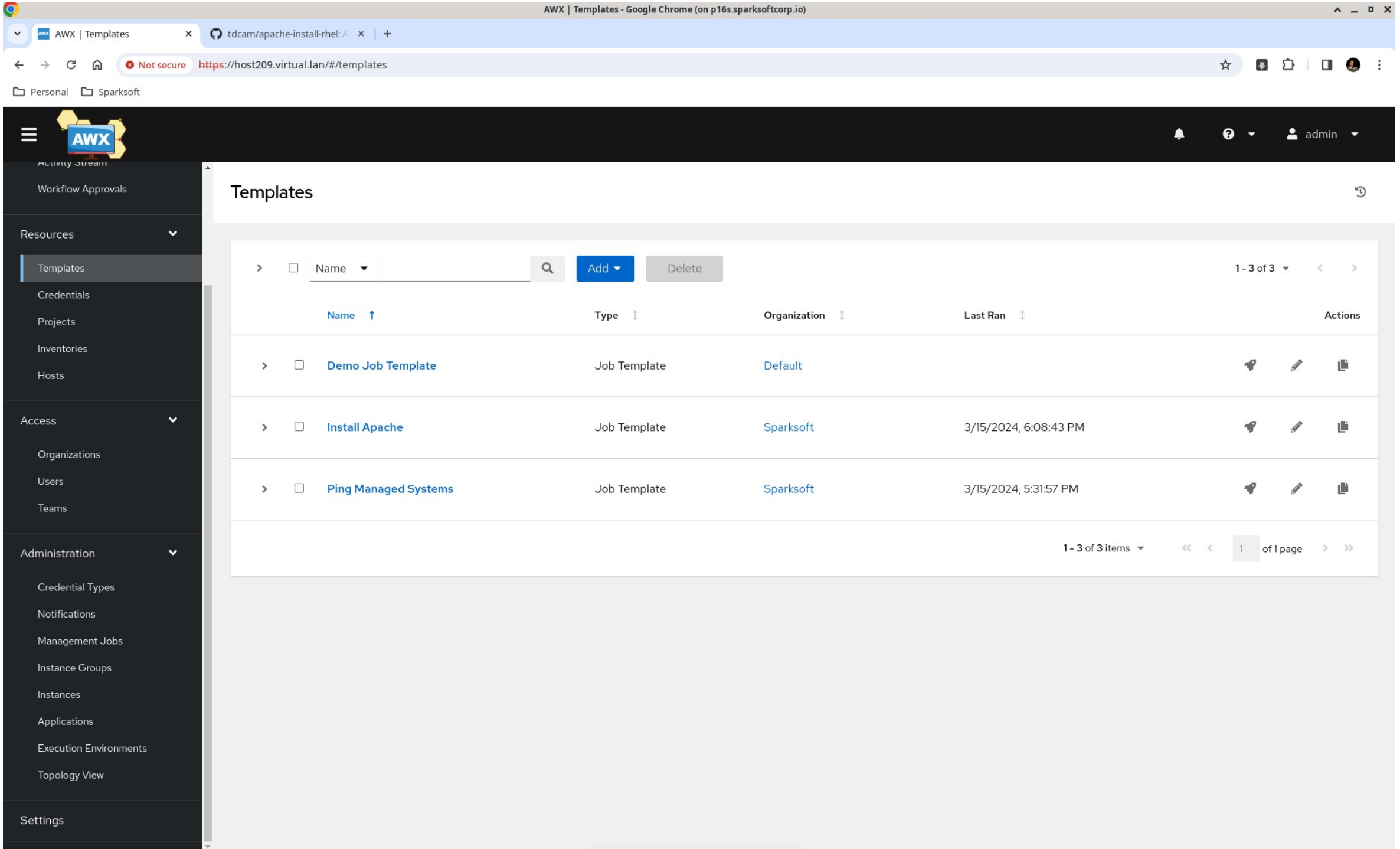
- files
- LICENSE
- README.md
- apache.yml
- remove-apache.yml

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
---
- name: Tear Web Environment Down
  hosts: all
  tasks:
    - name: remove httpd and related files
      ansible.builtin.dnf:
        name:
          - httpd
          - mod_ssl
        autoremove: true
        state: absent
    - name: remove firewall rules 80
      ansible.posix.firewalld:
        service: http
        state: disabled
        immediate: true
        permanent: true
    - name: remove firewall rules 443
      ansible.posix.firewalld:
        service: https
        state: disabled
        immediate: true
        permanent: true
```


AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Templates
tdcam/apache-install-rhel: A
Not secure
https://host209.virtual.lan/#/templates
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AWX | Install Apache - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Install Apache

tdcam/apache-install-rhel: A

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

Personal Sparksoft

AWX

admin

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Templates > Install Apache

Edit Details

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

apache.yml

remove-apache.yml

Prompt on launch

Labels Prompt on launch

Variables YAML JSON Prompt on launch

```
1 ---
```

Forks Prompt on launch
0

Limit Prompt on launch

Verbosity Prompt on launch
0 (Normal)

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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

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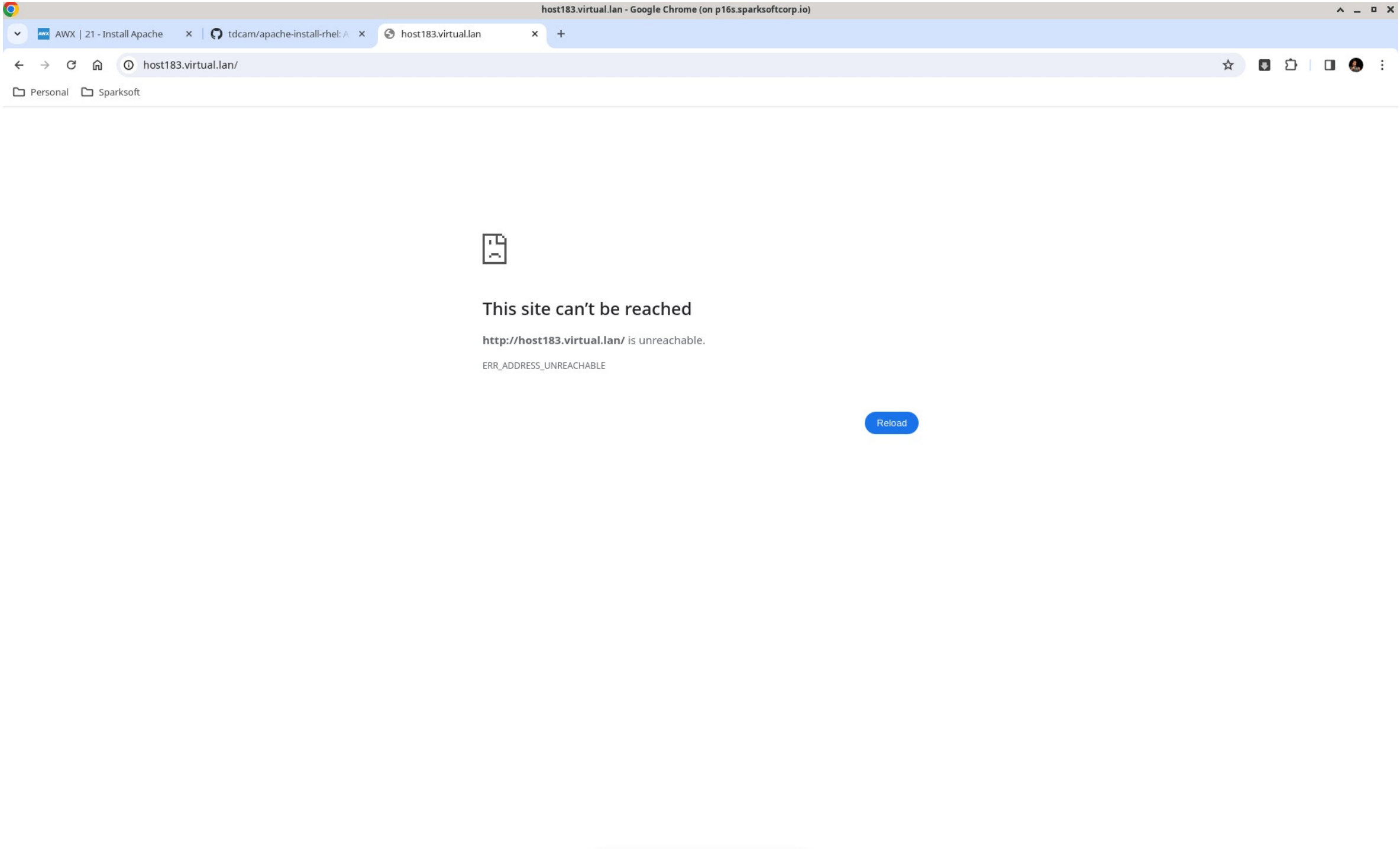
Install Apache Successful

Plays 1 Tasks 4 Hosts 1 Elapsed 00:00:11

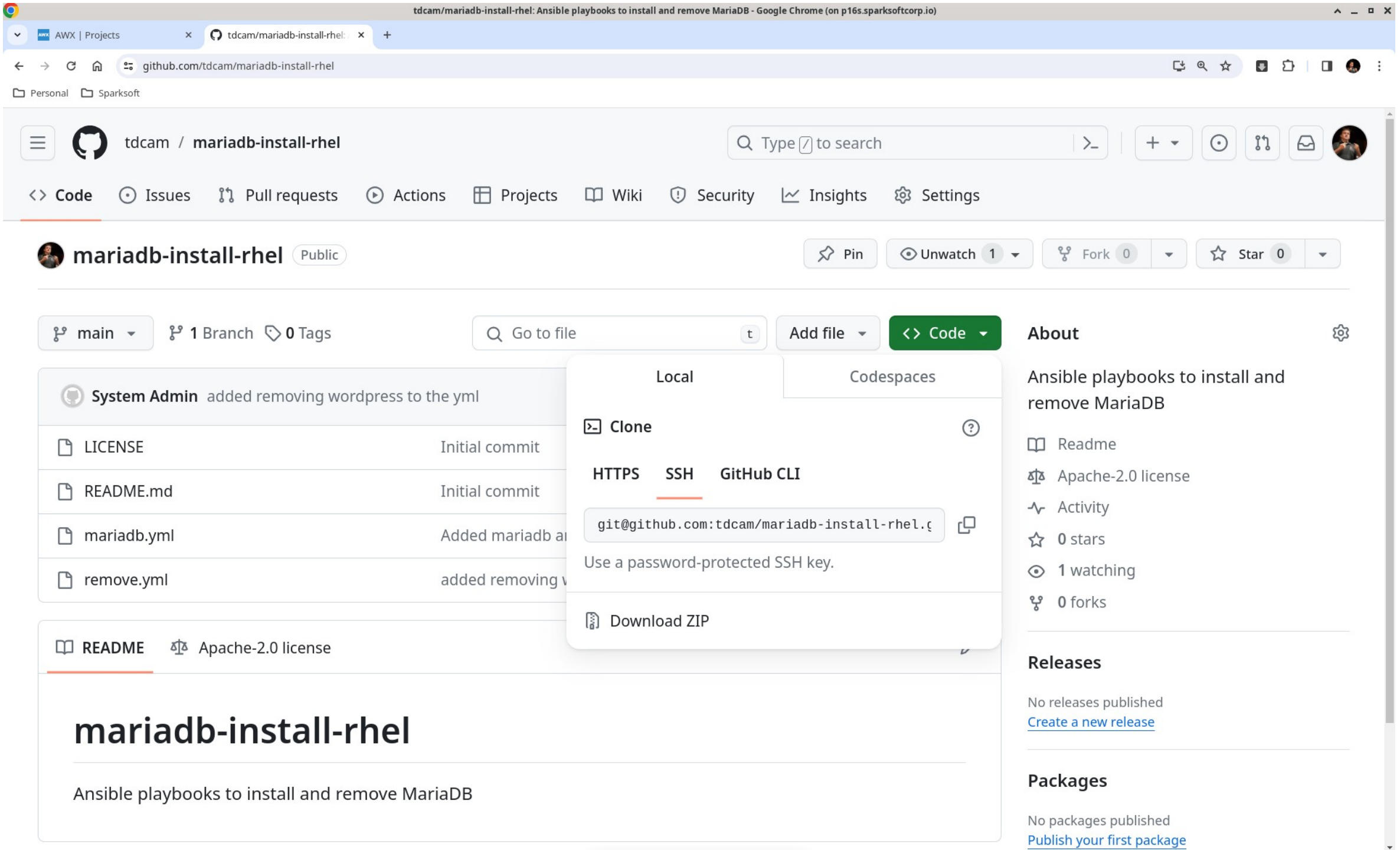
Stdout

```
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
```


host183.virtual.lan - Google Chrome (on p16s.sparksoftcorp.io)
AWX | 21 - Install Apache
tdcam/apache-install-rhel:
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


tdcam/mariadb-install-rhel: Ansible playbooks to install and remove MariaDB - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Projects
tdcam/mariadb-install-rhel
github.com/tdcam/mariadb-install-rhel
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
System Admin added removing wordpress to the yml
LICENSE
Initial commit
README.md
Initial commit
mariadb.yml
Added mariadb a
remove.yml
added removing
Local
Codespaces
Clone
HTTPS
SSH
GitHub CLI
git@github.com:tdcam/mariadb-install-rhel.g
Use a password-protected SSH key.
Download ZIP
README
Apache-2.0 license
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
Packages
No packages published
Publish your first package

AWX | Projects - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Projects

tdcam/mariadb-install-rhel:

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

Personal Sparksoft

admin

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Projects

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

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Projects > Thomas's MariaDB Installation

Details

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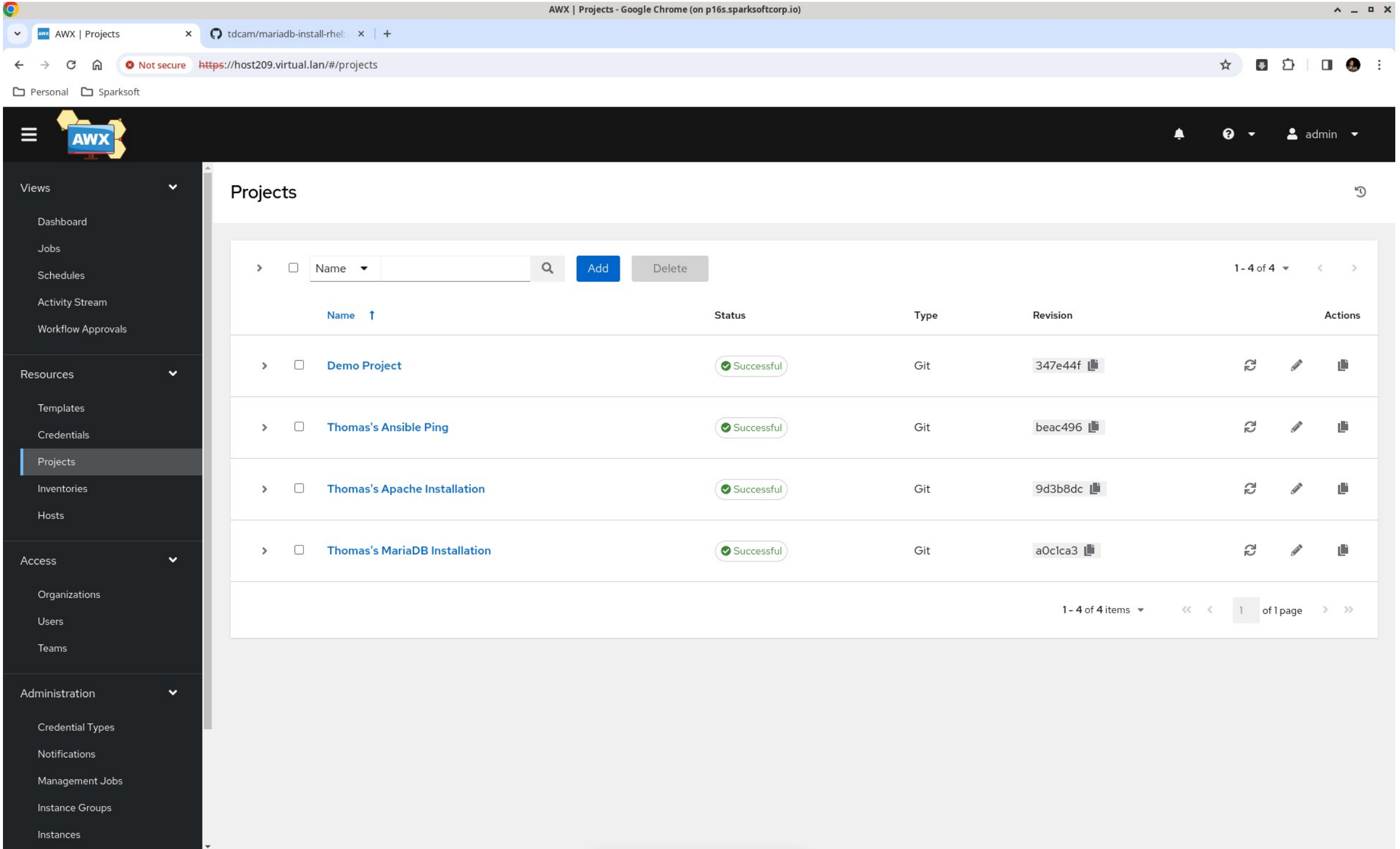
Last Job Status	Running	**Name**	Thomas's MariaDB Installation	**Description**	Installing MariaDB
Organization	Sparksoft	**Source Control Type**	Git	**Source Control Revision**	Sync for revision
Source Control URL	git@github.com:tdcam/mariadb-install-rhel.git	**Source Control Credential**	Scm: GitHub	**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 - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Projects
tdcam/mariadb-install-rhel:
Not secure
https://host209.virtual.lan/#/projects
Personal
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Successful
Git
347e44f
Thomas's Ansible Ping
Successful
Git
beac496
Thomas's Apache Installation
Successful
Git
9d3b8dc
Thomas's MariaDB Installation
Successful
Git
a0c1ca3
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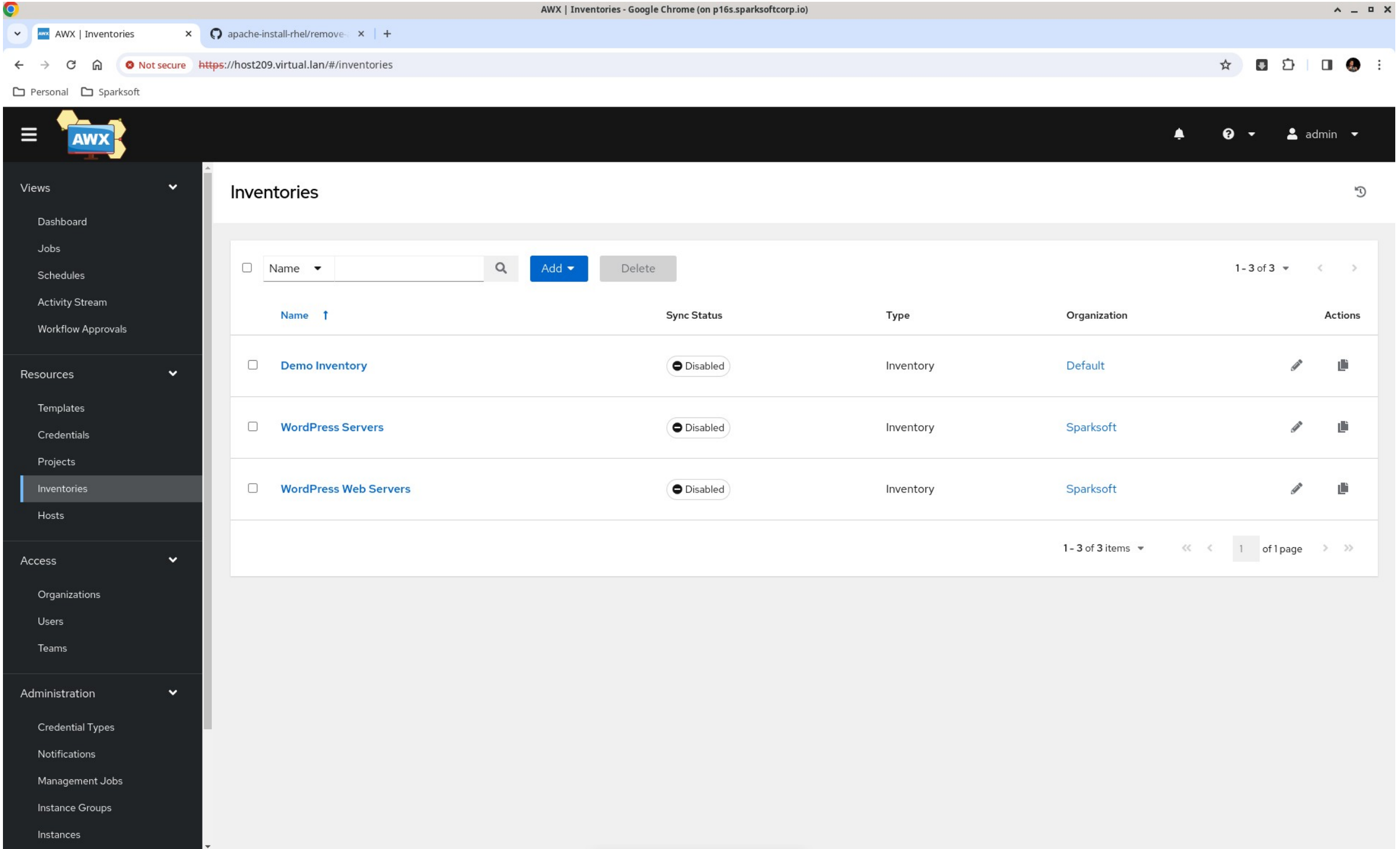
MariaDB Project

For the database tier


AWX | Inventories - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Inventories
apache-install-rhel/remove-
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https://host209.virtual.lan/#/inventories
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AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | apache-install-rhel/remove-

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

Personal | Sparksoft

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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

```
---
```

Save Cancel

AWX | WordPress DB Servers - Google Chrome (on p16s.sparksoftcorp.io)

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

Details

Back to Inventories | Details | Access | Groups | Hosts | Sources | Jobs | Job Templates

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 Servers - Google Chrome (on p16s.sparksoftcorp.io)

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

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

Personal | Sparksoft

AWX

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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 - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Hosts | AWX | Inventories | tdcam/mariadb-install-rhel

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

Personal | Sparksoft

AWX

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Inventories > WordPress DB Servers > Hosts

Create new host

Name *

host120.virtual.lan

Description

Variables YAML JSON

```
1 ---
2
```

Save Cancel

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | AWX | Inventories | tdcam/mariadb-install-rhel

Not secure https://host209.virtual.lan/#/inventories/inventory/5/hosts/11/details

Personal Sparksoft

AWX admin

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Inventories > WordPress DB Servers > Hosts

Back to Hosts | Details | Facts | Groups | Jobs

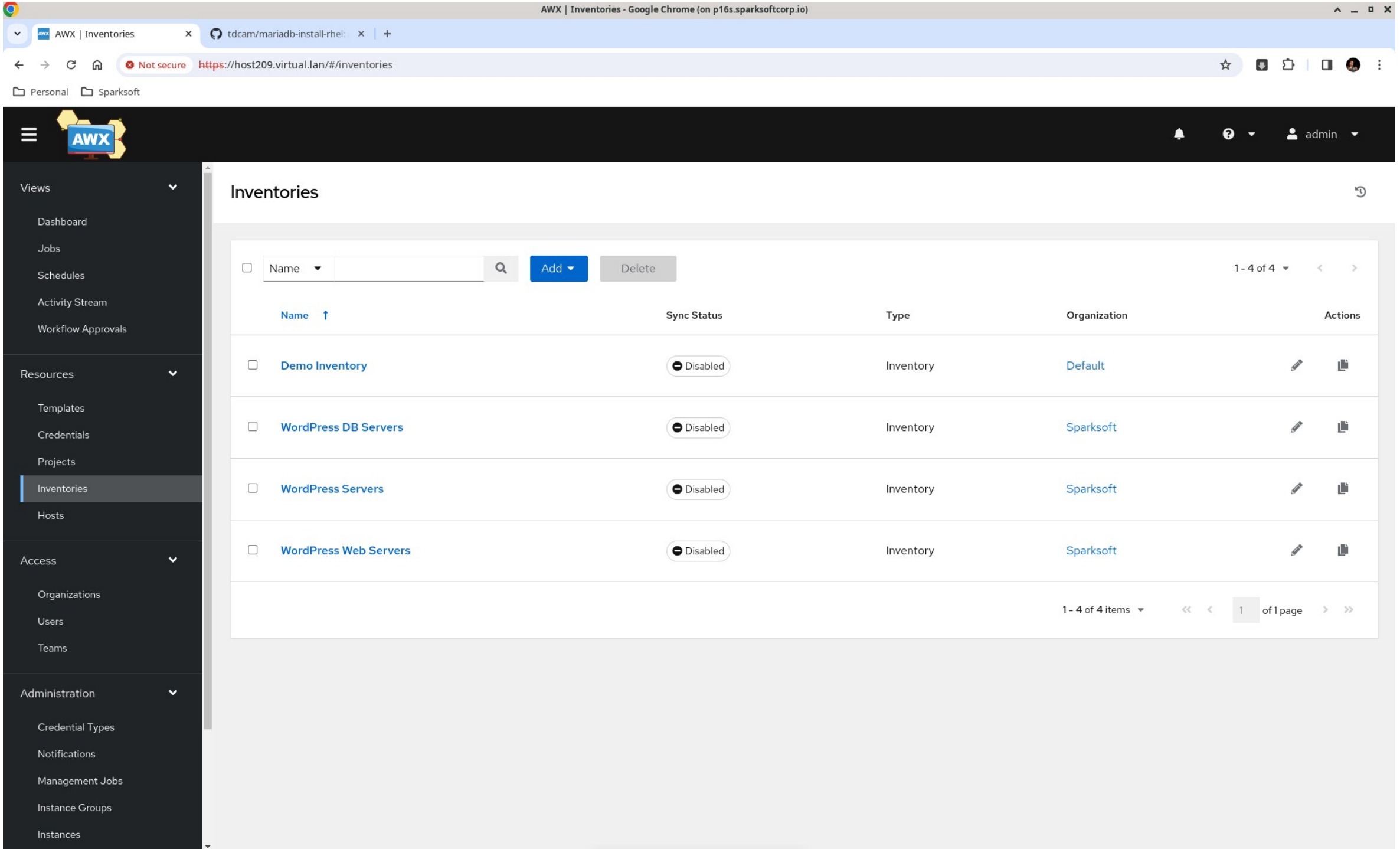
On

Name host120.virtual.lan **Created** 3/15/2024, 6:51:09 PM by admin **Last Modified** 3/15/2024, 6:51:09 PM by admin

Variables YAML JSON

```
1 ---
```

Edit Delete


AWX | Inventories - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Inventories
tdcam/mariadb-install-rhel:
Not secure
https://host209.virtual.lan/#/inventories
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WordPress Servers
Disabled
Inventory
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WordPress Web Servers
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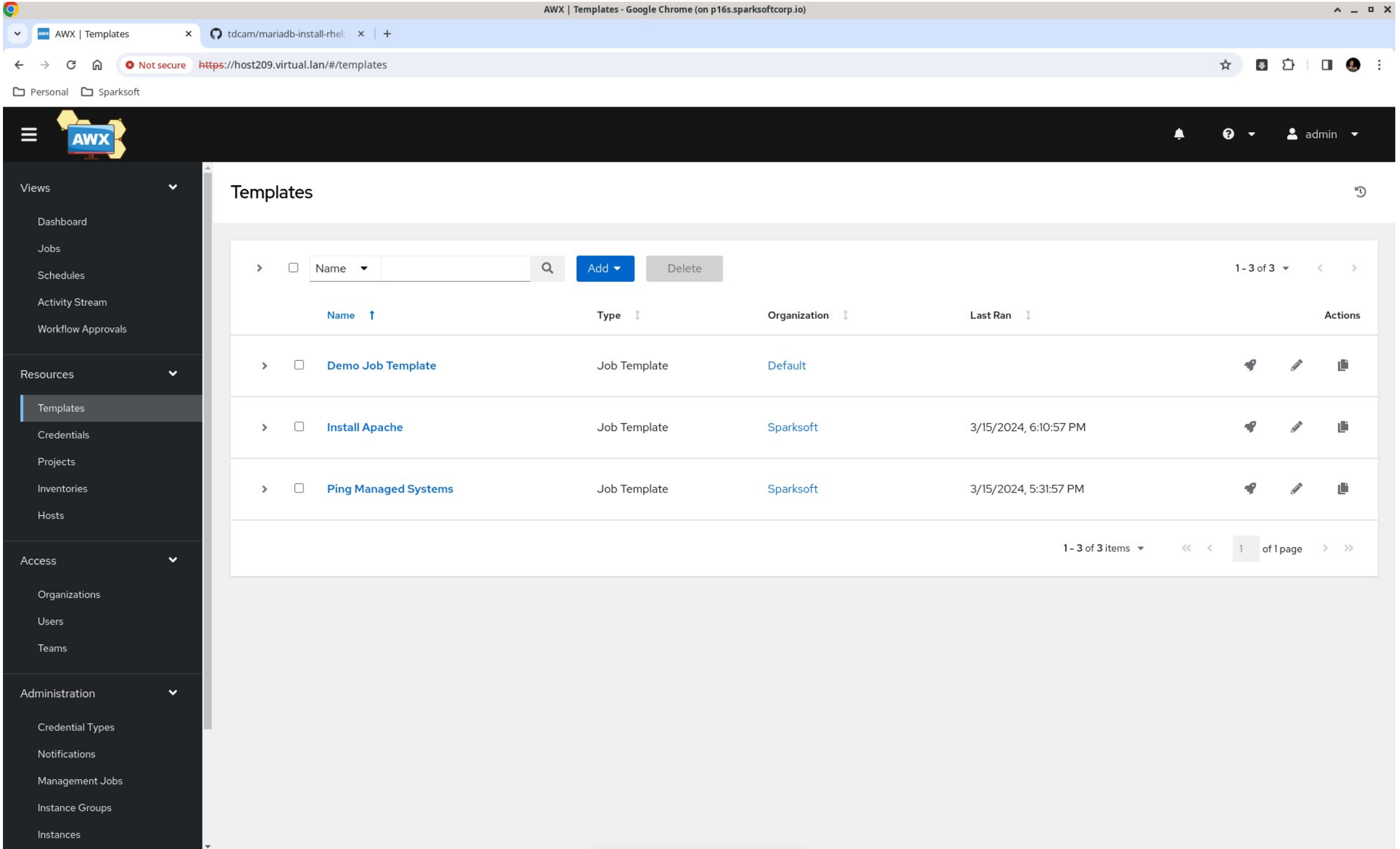
MariaDB template

As we discussed before


AWX | Templates - Google Chrome (on p16s.sparksoftcorp.io)
AWX | Templates
tdcam/mariadb-install-rhel:
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https://host209.virtual.lan/#/templates
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3/15/2024, 6:10:57 PM
Ping Managed Systems
Job Template
Sparksoft
3/15/2024, 5:31:57 PM
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AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/mariadb-install-rhel:

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

Personal | Sparksoft

AWX | admin

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Templates

Create New Job Template

Name * Install MariaDB

Description

Job Type * Run — Prompt on launch

Inventory * WordPress DB Servers — Prompt on launch

Project * Thomas's MariaDB Installation

Execution Environment — Prompt on launch

Playbook * mariadb.yml

Credentials SSH: sysadmin's ssh k... — Prompt on launch

Labels — Prompt on launch

Variables YAML | JSON — Prompt on launch

```
1 ---
2
```

Forks 0 — Prompt on launch

Limit — Prompt on launch

Verbosity 0 (Normal) — Prompt on launch

AWX - Google Chrome (on p16s.sparksoftcorp.io)

AWX | tdcam/mariadb-install-rhel:

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

Personal | Sparksoft

AWX | admin

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Variables YAML JSON — Prompt on launch

```
---
```

Forks — Prompt on launch: 0

Limit — Prompt on launch:

Verbosity — Prompt on launch: 0 (Normal)

Job Slicing — Prompt on launch: 1

Timeout — Prompt on launch: 0

Show Changes — Prompt on launch: Off

Instance Groups — Prompt on launch

Job Tags — Prompt on launch

Skip Tags — Prompt on launch

Options

- [x] Privilege Escalation
- [ ] Provisioning Callbacks
- [ ] Enable Webhook
- [x] Concurrent Jobs
- [x] Enable Fact Storage
- [ ] Prevent Instance Group Fallback

Save | Cancel

AWX | Install MariaDB - Google Chrome (on p16s.sparksoftcorp.io)

AWX | Install MariaDB

tdcam/mariadb-install-rhel:

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

Personal Sparksoft

admin

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Templates > Install MariaDB

Details

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

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 - Google Chrome (on p16s.sparksoftcorp.io)

AWX | 25 - Install MariaDB

tdcam/mariadb-install-rhel:

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

Personal Sparksoft

AWX admin

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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?

IS THIS THE REAL LIFE?
IS THIS JUST FANTASY?

Questions?

- The floor is open!

Thank you very much!

- Personal contact info:
  - https://camerontech.com (the slides will be posted there later today)
  - thomas.cameron@camerontech.com
  - https://github.com/tdcam
- Professional contact info:
  - https://sparksoftcorp.com
  - thomas.cameron@sparksoftcorp.com