



# AWX 101: Getting Started in Automation with the Ansible AWX Platform

**cisco** Live !

Tim Glen  
Security Solutions Engineer

# Cisco Webex App

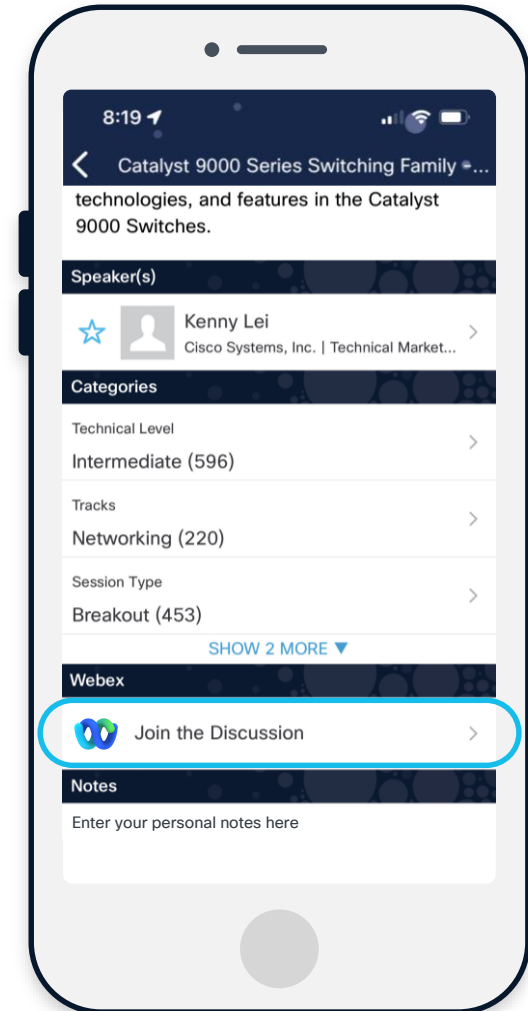
## Questions?

Use Cisco Webex App to chat with the speaker after the session

## How

- 1 Find this session in the Cisco Live Mobile App
- 2 Click “Join the Discussion”
- 3 Install the Webex App or go directly to the Webex space
- 4 Enter messages/questions in the Webex space

**Webex spaces will be moderated by the speaker until June 13, 2025.**



<https://ciscolive.ciscoevents.com/ciscolivebot/#DEVNET-1060>



# Tim (Personal)

- Human
- Husband
- Father
- Dog Dad
- Outside
- Biking
- Driving
- Travel



# Tim (Professional)

- Started in IT in 1995, Telephone Tech Support
- Worked 23 years at Web Hosting Provider
  - Managed all routers, switches, firewalls, wireless, security
- Worked at Cisco 6 years
  - Security Systems Engineer



[github.com/timmayg](https://github.com/timmayg)



[linkedin.com/in/timglen](https://linkedin.com/in/timglen)



[cs.co/TimGlen](https://cs.co/TimGlen)



# Agenda

Press here to  
get started



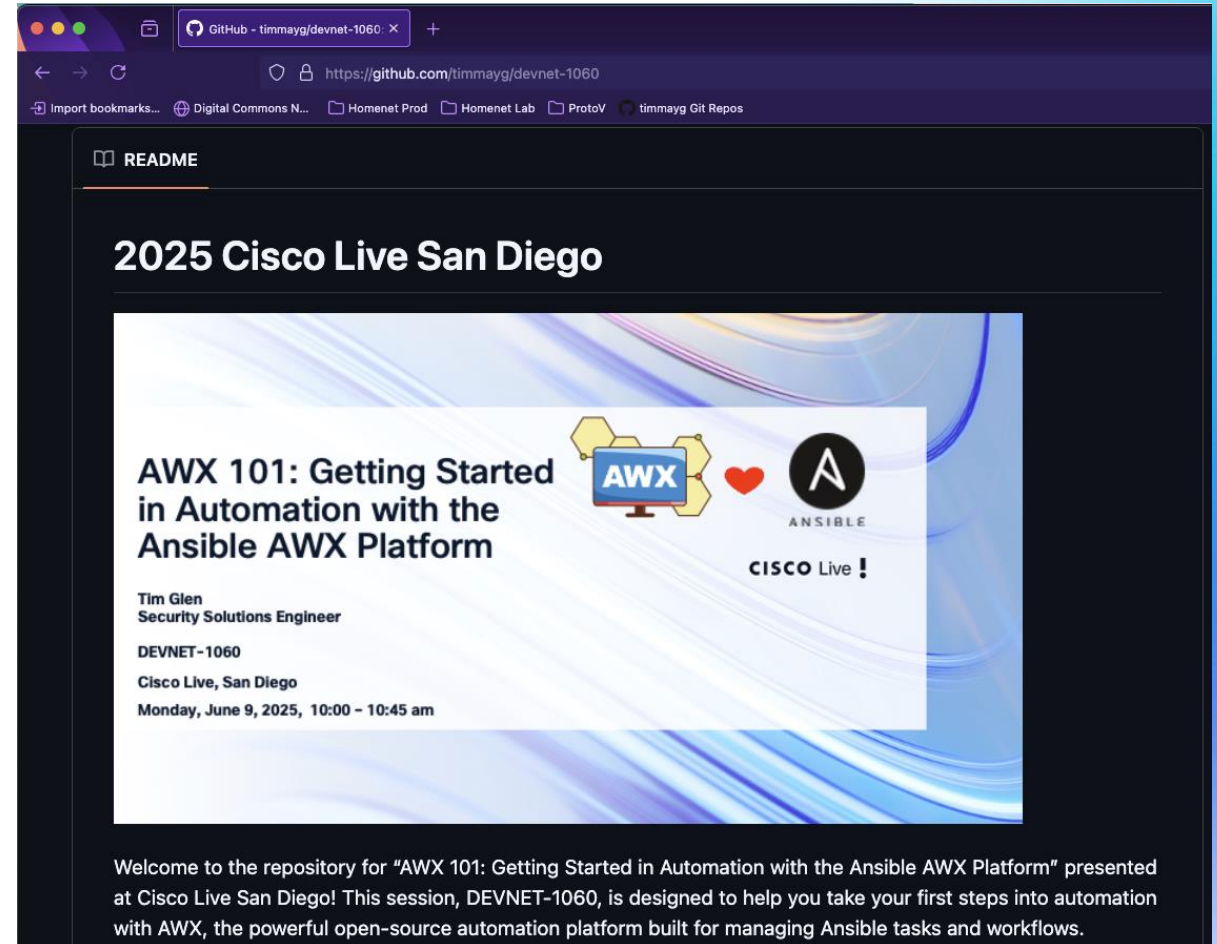
- 01 Introduction
- 02 The Basics
- 03 AWX on AWX Operator
- 04 Dashboard, Git Integration, Playbooks, Inventories
- 05 Demo – Show Serial
- 06 Demo – ISE Certificate Renewal & Import
- 07 Demo – Dark Wiring Closet Cat 9K Power Savings
- 08 Conclusion



# Check Here for Updates



<https://github.com/timmayg/devnet-1060>



# Run ISE Cert Job RIGHT NOW

Label: demo

>	<input type="checkbox"/>	01 - ISE Cert Demo - CLUS LE_PROD	Workflow Job Template	<a href="#">Homenet</a>
>	<input type="checkbox"/>	01 - ISE Cert Demo - CLUS LE_STAGE	Workflow Job Template	<a href="#">Homenet</a>

# Why Automation

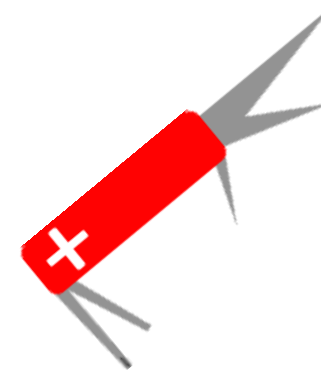
- Environments are Large & Complex
- Automation enables Speed, Repeatability & Consistency
- Because it's FUN, it's EXCITING

## Why Ansible

- Simple, agentless, declarative, idempotent
- YAML playbooks are easy to read \ write

## Why AWX

- Massive Flexibility
- Web UI, REST API
- Scheduling, Logging



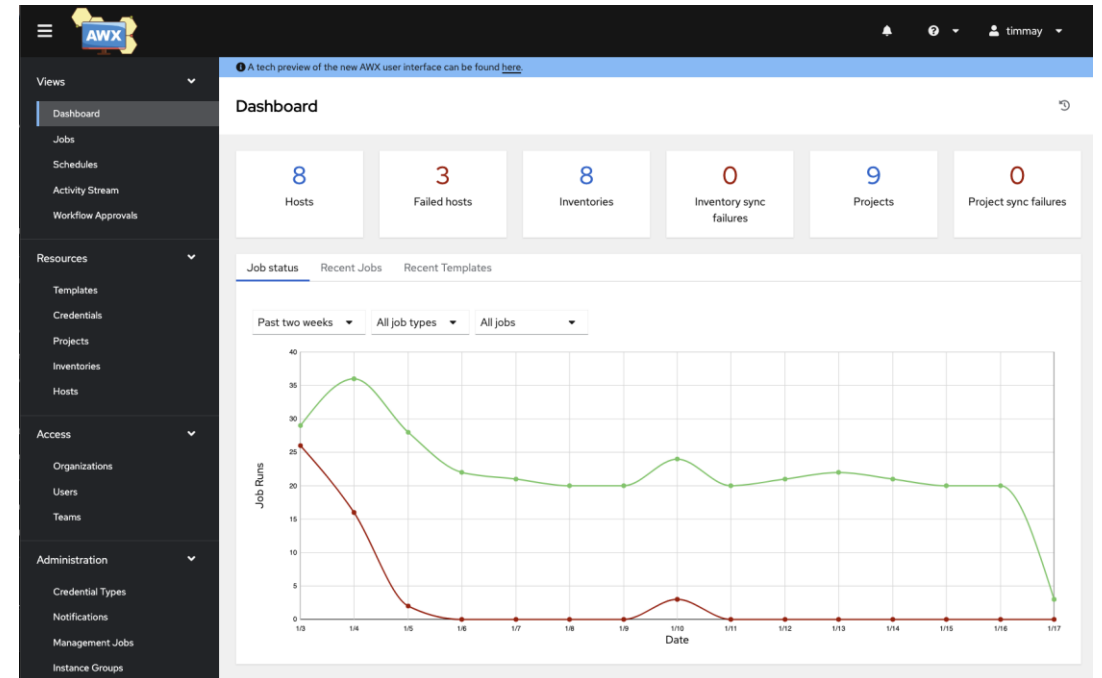


# Ansible vs AWX

- Ⓐ Ansible is a powerful CLI tools
- Ⓐ Ansible runs on Linux, macOS, WSL

```
timmay@ubuntu-01:~/clemea2024-devnet-2111$  
timmay@ubuntu-01:~/clemea2024-devnet-2111$ ansible-playbook -i inventories/cat9300-1.yaml playbooks/show-serial.yaml  
  
PLAY [Gather and Show the Hostname and Serial Number of the IOS XE Boxes] *****  
  
TASK [Get the facts] *****  
ok: [Cat9300-1]  
  
TASK [Display model and serial number] *****  
ok: [Cat9300-1] => {  
  "msg": "Switch Host Name is Cat9300-1. Serial number is F0C2443LG0P. Stack serial numbers are ['F0C2443LG0P']."  
}  
  
PLAY RECAP *****  
Cat9300-1          : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0  
  
timmay@ubuntu-01:~/clemea2024-devnet-2111$
```

- 🖥️ AWX is a task engine with a web interface
- 🖥️ AWX is built & optimized to run ansible
- 🖥️ AWX is the upstream version of Tower \ Ansible Automation Platform



# AWX Current \ Future State



## Current State of AWX

AWX is currently structured as a monolithic Django application. It consists of several entry points, each running as individual processes, including our API, Job Dispatcher, Event Processor, and Websocket subsystem. Alongside these, AWX relies on various ancillary processes such as Redis, Rsyslog, Receptor, Nginx, Uwsgi, and Daphne.

## Proposed Changes

To address these challenges, we are beginning to transition AWX towards a more pluggable, service-oriented architecture. By breaking down the monolithic structure into smaller, modular services, we aim to enhance both flexibility and maintainability. This shift will enable us to make changes more swiftly and efficiently in AWX while also improving our ability to reuse code across various projects leveraged by Ansible Automation Platform.

<https://forum.ansible.com/t/refactoring-awx-into-a-pluggable-service-oriented-architecture/7404/1>

# AWX Operator

- AWX is a containerized application
- AWX is managed by AWX Operator
- Managed = Deployment, backup, restore, upgrade
- Deployed to Kubernetes (minikube, k3s, microk8s, etc.)



```
timmay@ubuntu-05:~$  
timmay@ubuntu-05:~$ sudo kubectl get pods -n awx
```

NAME	READY	STATUS	RESTARTS	AGE
awx-operator-controller-manager-745b55d94b-6zjxw	2/2	Running	16 (61d ago)	181d
ubuntu-05-awx-migration-24.6.1-s4kcw	0/1	Completed	0	181d
ubuntu-05-awx-postgres-15-0	1/1	Running	7 (61d ago)	181d
ubuntu-05-awx-task-6fd68b7b49-d4hvc	4/4	Running	28 (61d ago)	181d
ubuntu-05-awx-web-bcccb4dcf-xhb4f	3/3	Running	21 (61d ago)	181d

```
timmay@ubuntu-05:~$
```

# AWX in the Cloud



## AWX Native in Azure

Microsoft Azure

Home > Create a resource >

Marketplace

Get Started

Service Providers

Management

Private Marketplace

Private Offer Management

My Marketplace

Favorites

My solutions

Recently created

Private plans

Categories

DevOps (1)

Developer Tools (1)


AI + Machine Learning (0)

Analytics (0)

Ansible AWX V24.6 (License free, web-based alternative to ...)

☐ Azure services only

Showing 1 to 1 of 1 results for 'Ansible AWX V24.6 (License free, web-based alternative to ...)



Ansible AWX V24.6 (License free, web-based alternative to ...)

TechLatest

Virtual Machine

Unleash the Power of Ansible with AWX - License free Web-based Opensource option to Ansible Tower

Starts at \$0.13/3 years

Create

Previous

Page 1 of 1


Next

## AWX Native in AWS

aws marketplace

About Categories Delivery Methods Solutions Resources Your Saved List Become a Channel Partner Sell in AWS Marketplace Amazon Web Services

AWS Marketplace > Infrastructure as Code > Amazon Machine Image (AMI) > AWX v24 (Open Source Ansible Tower GUI)



AWX v24 (Open Source Ansible Tower GUI)

Sold by: Solve DevOps

Linux and Windows IT Automation at your fingertips. Take Your Ansible Playbooks to the Next Level.

0 AWS reviews

Overview

Pricing

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Usage

Resources

Support

Similar products

Reviews

Overview

AWX is an IT Automation platform that provides a web-UI to run Ansible Playbooks. Ansible is IT automation software used for configuration management, cloud resource provision, and application deployment, enabling Infrastructure as Code (IaC) for organisations of all sizes.

AWX extends Ansible's power by providing IT administrators with the option of running Ansible Playbooks using a web user interface. With a few simple clicks, anyone can automate the provisioning and configuration of VMs, Cloud resources, and Software with security and access controls built in. AWX also provides an audit-friendly interface for finance and security teams to audit who did what and when.

This image allows you to deploy AWX on AWS with 1-Click.

What are the benefits of using AWX? -Run your Ansible playbooks on schedule and unattended. -Enable GitOps for your projects. -Automatically start deployments once code changes are pushed to Git. -Use Ansible to configure and manage both cloud and on-premises instances. -Control who can provision resources in the cloud and on-premises. -Complete the audit trail to determine resource usage across your organisation. -Empower your DevOps teams to do what matters for your clients.

Highlights

- Ansible Automation
- GitOps Ready
- Windows and Linux Automation

Details

Sold by Solve DevOps

Categories Infrastructure as Code Continuous Integration and Continuous Delivery Cloud Operations

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DEVNET-1060

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# Basic Terminology

## Ansible

- Playbook
  - Tasks to be executed
- Task
  - Single Unit
  - Declarative & Idempotent
- Module
  - Reusable Unit of Work
- Inventory
  - List(s) of Managed Hosts
  - Static or Dynamically Generated



# Basic Terminology

## Ansible

- Playbook
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## AWX

- Projects
  - Collections of Playbooks
  - GitHub (Source Control)
- Templates
  - Playbook Specific Options
- Credentials
  - Encrypted Storage
  - Username, Password & MORE!
- Execution Environments
  - Container, Python, Ansible
  - Jobs, Schedules, Logging



# AWX Integrations & Compatibility

 **Let's Encrypt**



 **Terraform**  
**servicenow**



HashiCorp

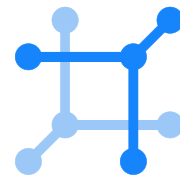
**Vault**



**GitHub**



**webex**  
by **CISCO**



**netbox**

**PagerDuty**



☰

Views

Dashboard

Jobs

Schedules

Activity Stream

Workflow Approvals

Resources

Templates

Credentials

Projects

Inventories

Hosts

🔔

?

admin

Projects

Create New Project

Name \*

A Collection of Playbooks

Description

Organization \*

🔍 Default

Execution Environment ?

🔍

Source Control Type \*

✓ Choose a Source Control Type

Manual

Git

Subversion

Red Hat Insights

Remote Archive

Content Signature Validation Credential ?

🔍

Save

Cancel

Which Source Control Do You Use ?



# AWX Templates

AWX

Views

Resources

Access

Administration

Dashboard

Jobs

Schedules

Activity Stream

Workflow Approvals

Templates

Credentials

Projects

Inventories

Hosts

Organizations

Users

Teams

Credential Types

Templates > Get-Cert (awx.theglens.net)

Edit Details

1

Name \*

Get-Cert (awx.theglens.net)

2

Inventory \* ?

Local Host Inventory

3

Project \* ?

Git - awx-acme

4

Execution Environment ?

timmay-prod (latest)

5

Playbook \* ?

003-create-acme-certificate.yaml

6

Credentials ?

SSH: Vault Token PR...

Labels ?

acme

Variables ?

YAML JSON

```
1 ---
2 fqdn: awx.theglens.net
3 zone: theglens.net
4 #key_name: "le_stage_ec_key"
5 #acme_directory: "https://acme-staging-v02.api.letsencrypt.org/directory"
6 key_name: "le_prod_key"
7 acme_directory: "https://acme-v02.api.letsencrypt.org/directory"
```

Job Type \* ?

Run

Prompt on launch

Prompt on launch

Prompt on launch

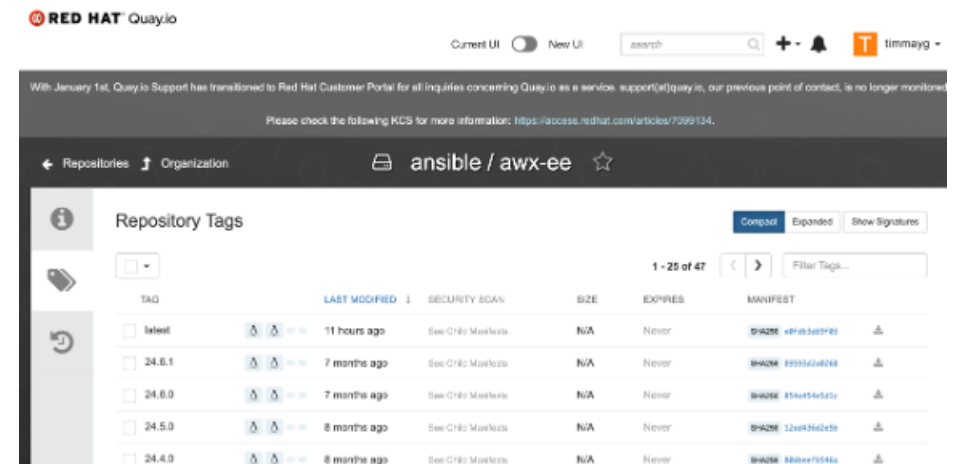
Prompt on launch

# Execution Environments (EE)

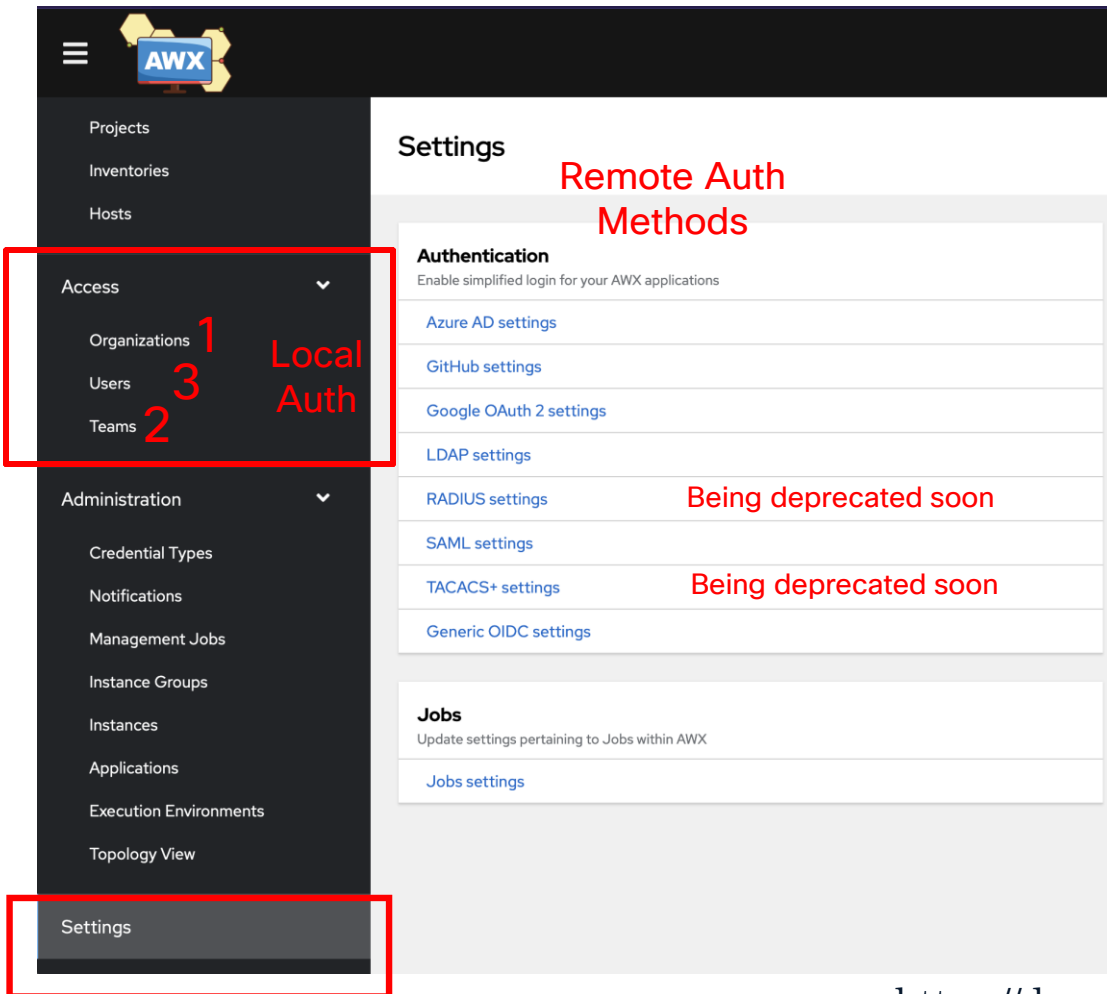
- Developed by the open source AWX Project Community
- Purpose-built containerized runtime environment
- Built in awx-ee good for most playbooks
- ~2021 Replaced Python Virtual Environment
- Customizable, allows system level dependencies
- Build your own for more advanced automation
- Portable, store on Quay IO & distribute



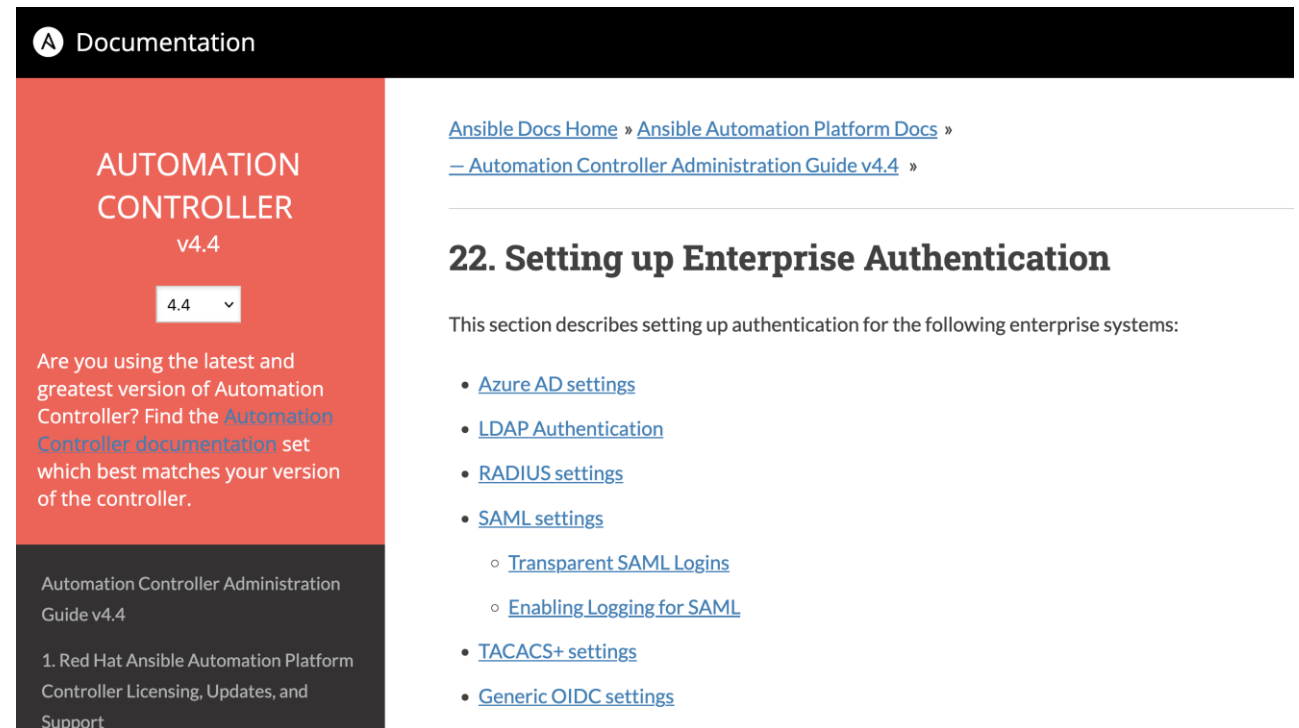
<https://quay.io/repository/ansible/awx-ee>



# Authentication, Local & Remote



## Using Modern Authentication



[https://docs.ansible.com/automation-controller/4.4/html/administration/ent\\_auth.html](https://docs.ansible.com/automation-controller/4.4/html/administration/ent_auth.html)



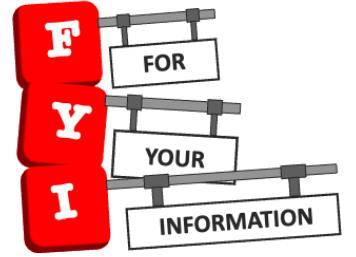
# Demo

## The Basics

### Get it running!



# Demo1 - Create Inventory & Host



Name CL - Cat Switch Inventory

Groups iosxe

Hosts

## Cat9300-1

ansible\_host: 10.65.0.2  
ansible\_network\_os: ios

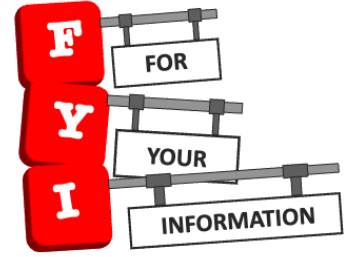
## Cat9300-2

ansible\_host: 10.65.0.6  
ansible\_network\_os: ios

```
inventory.yaml 2, U
inventory.yaml
1 ---
2 iosxe:
3   hosts:
4     Cat9300-1#:
5       ansible_host: 10.65.0.2
6     Cat9300-2#:
7       ansible_host: 10.65.0.6
8
9   vars:
10     ansible_network_os: ios
11
--
```

# Demo1 – Configure Project

- Display Git Repo in Browser
- Create Project
- Show Sync Occur



Name

CL – GitHub Project DEVNET-1060

Source Control Type

GitHub

Source Control URL

`https://github.com/timmayg/devnet-1060.git`

# Demo1 – Create Credential Sets

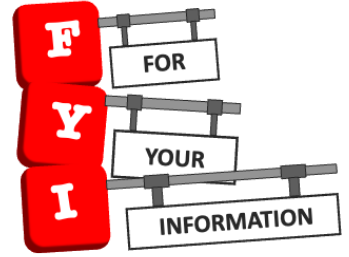
- Create Credential

Name CL - IOS XE Cred

Cred Type Machine

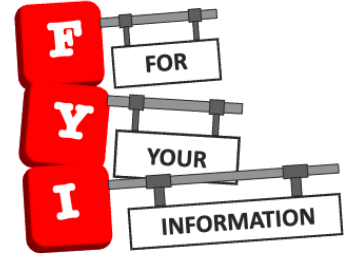
## IOS XE Creds

Username ciscolive  
Password ciscosecure



# Demo1 – Create Template

- Show Playbook
- Create Job Template



Name                      Show IOS XE Serial Number

Inventory

Project

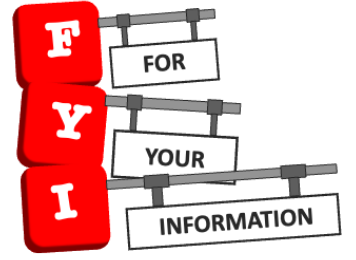
Execution

Environment



# Demo – Run Show Serial

- After successful run
- Increase verbosity and run again
- Increase verbosity and run again



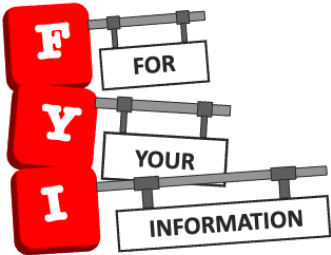


# Demo

## ISE Certificate Renewal

# Demo – ISE Cert

- Show Workflow 01 – ISE Cert Demo – CLUS
- Show Template Visualizer – discuss multiple jobs
- Show Webex Space
- Show ISE Certificate
- Show ISE Server



Name ↑		Status ↑	Type	Start Time ↑	Finish Time ↓	Actions
>	<input type="checkbox"/> 10418 – Get-Cert v2 (ise1.theglens.net) LE_PRO D	Canceled	Playbook Run	6/8/2025, 10:19:38 AM	6/8/2025, 10:20:00 AM	





# Demo

## Reducing Power Usage on Cat 9000

# Reduce Cat 9000 Power Usage



- New sustainability features in 17.15(x) & 17.16(x)
- Turn off front panel interface LEDs



**Switch(config)# hw-module switch 1 auto-off led**

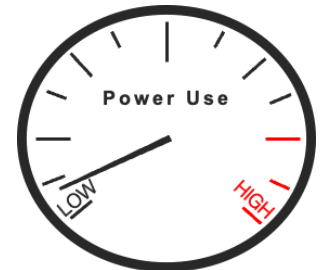
- Turn off SFP electronics for unused SFP

**Switch(config)# hw-module switch 1 auto-off optics**

- Shutdown Stack Power power supplies under low load



**Switch(config)# stack-power stack auto-off**





# IOS XE 17.12(4) Before New Feature – All LEDs On

Switch# show hardware led

```
Cat9300-2#
Cat9300-2#sh ver | inc IOS XE
Cisco IOS XE Software, Version 17.12.04
Cat9300-2#
Cat9300-2#
Cat9300-2#sh hardware led
Load for five secs: 0%/0%; one minute: 0%; five minutes: 0%
Time source is NTP, 10:02:30.774 Eastern Wed Jan 22 2025
----- show hardware led -----

Current Mode: STATUS

SWITCH: 1
SYSTEM: GREEN
MASTER: GREEN
STATUS: (40) Gi1/0/1:ACT_GREEN Gi1/0/2:ACT_GREEN Gi1/0/3:ACT_GREEN Gi1/0/4:ACT_GREEN Gi1/0/5:ACT_GREEN
BLACK Gi1/0/12:BLACK Gi1/0/13:BLACK Gi1/0/14:BLACK Gi1/0/15:BLACK Gi1/0/16:BLACK Gi1/0/17:ACT_GREEN Gi1/0/18:BLACK
Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0/24:BLACK Gi1/1/1:BLACK Gi1/1/2:BLACK Gi1/1/3:BLACK Gi1/1/4:BLACK Te1/1/1:BLACK Te1/1/2:BLACK Te1/1/3:BLACK Te1/1/4:BLACK Te1/1/5:BLACK Te1/1/6:BLACK Te1/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
DUPLEX: (40) Gi1/0/1:GREEN Gi1/0/2:GREEN Gi1/0/3:GREEN Gi1/0/4:GREEN Gi1/0/5:GREEN Gi1/0/6:GREEN Gi1/0/7:GREEN Gi1/0/8:GREEN Gi1/0/9:GREEN Gi1/0/10:GREEN Gi1/0/11:GREEN Gi1/0/12:BLACK Gi1/0/13:BLACK Gi1/0/14:BLACK Gi1/0/15:BLACK Gi1/0/16:BLACK Gi1/0/17:GREEN Gi1/0/18:GREEN Gi1/0/19:GREEN Gi1/0/20:GREEN Gi1/0/21:GREEN Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0/24:BLACK Gi1/1/1:BLACK Gi1/1/2:BLACK Gi1/1/3:BLACK Gi1/1/4:BLACK Te1/1/1:BLACK Te1/1/2:BLACK Te1/1/3:BLACK Te1/1/4:BLACK Te1/1/5:BLACK Te1/1/6:BLACK Te1/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
SPEED: (40) Gi1/0/1:BLINK_GREEN Gi1/0/2:BLINK_GREEN Gi1/0/3:BLINK_GREEN Gi1/0/4:BLINK_GREEN Gi1/0/5:BLINK_GREEN Gi1/0/6:BLINK_GREEN Gi1/0/7:BLINK_GREEN Gi1/0/8:BLINK_GREEN Gi1/0/9:BLINK_GREEN Gi1/0/10:BLINK_GREEN Gi1/0/11:BLACK Gi1/0/12:BLACK Gi1/0/13:BLACK Gi1/0/14:BLACK Gi1/0/15:BLACK Gi1/0/16:BLACK Gi1/0/17:BLACK Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0/24:BLINK_GREEN Gi1/1/1:BLACK Gi1/1/2:BLACK Gi1/1/3:BLACK Gi1/1/4:BLACK Gi1/1/5:BLACK Gi1/1/6:BLACK Gi1/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
STACK: (40) Gi1/0/1:FLASH_GREEN Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK Gi1/0/6:BLACK Gi1/0/7:BLACK Gi1/0/8:BLACK Gi1/0/9:BLACK Gi1/0/10:BLACK Gi1/0/11:BLACK Gi1/0/12:BLACK Gi1/0/13:BLACK Gi1/0/14:BLACK Gi1/0/15:BLACK Gi1/0/16:BLACK Gi1/0/17:BLACK Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0/24:BLACK Gi1/1/1:BLACK Gi1/1/2:BLACK Gi1/1/3:BLACK Gi1/1/4:BLACK Te1/1/1:BLACK Te1/1/2:BLACK Te1/1/3:BLACK Te1/1/4:BLACK Te1/1/5:BLACK Te1/1/6:BLACK Te1/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
STACK POWER: BLACK
XPS: BLACK

RJ45 CONSOLE: GREEN
USB CONSOLE: BLACK
BEACON: BLACK

Cat9300-2#
```

• Status LED Color

# IOS XE 17.15(2) - LEDs On

Switch# show hardware led

```
Cat9300-2#
Cat9300-2#sh ver | inc IOS XE
Cisco IOS XE Software, Version 17.15.02
Cat9300-2#
Cat9300-2#sh hardware led
Load for five secs: 0%/0%; one minute: 0%; five minutes: 0%
Time source is NTP, 11:05:11.835 Eastern Wed Jan 22 2025
----- show hardware led -----

Current Mode: STATUS
LED Auto off: Disabled

SWITCH: 1
SYSTEM: GREEN
MASTER: GREEN
STATUS: (40) Gi1/0/1:ACT_GREEN Gi1/0/2:ACT_GREEN Gi1/0/3:ACT_GREEN Gi1/0/4:ACT_GREEN Gi1/0/5:ACT_GREEN
LACK Gi1/0/16:BLACK Gi1/0/17:ACT_GREEN Gi1/0/18:ACT_GREEN Gi1/0/19:ACT_GREEN Gi1/0/20:ACT_GREEN Gi1/0/21:
K Te1/1/4:BLACK Te1/1/5:BLACK Te1/1/6:BLACK Te1/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe
DUPLEX: (40) Gi1/0/1:GREEN Gi1/0/2:GREEN Gi1/0/3:GREEN Gi1/0/4:GREEN Gi1/0/5:GREEN Gi1/0/6:GREEN Gi1/0/7:
EN Gi1/0/18:GREEN Gi1/0/19:GREEN Gi1/0/20:GREEN Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0/24:G
BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
SPEED: (40) Gi1/0/1:BLINK_GREEN Gi1/0/2:BLINK_GREEN Gi1/0/3:BLINK_GREEN Gi1/0/4:BLINK_GREEN Gi1/0/5:BLI
LACK Gi1/0/15:BLACK Gi1/0/16:BLACK Gi1/0/17:BLINK_GREEN Gi1/0/18:BLINK_GREEN Gi1/0/19:BLINK_GREEN Gi1/0
e1/1/2:BLACK Te1/1/3:BLACK Te1/1/4:BLACK Te1/1/5:BLACK Te1/1/6:BLACK Te1/1/7:BLACK Te1/1/8:BLACK Fo1/1/
STACK: (40) Gi1/0/1:FLASH_GREEN Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK Gi1/0/6:BLACK G
7:BLACK Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/23:BLACK Gi1/0
/1/7:BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
STACK POWER: BLACK
XPS: BLACK

RJ45 CONSOLE: GREEN
USB CONSOLE: BLACK
BEACON: BLACK

Cat9300-2#
Cat9300-2#
```



# IOS XE 17.15(2) - LEDs Off

Switch# show hardware led

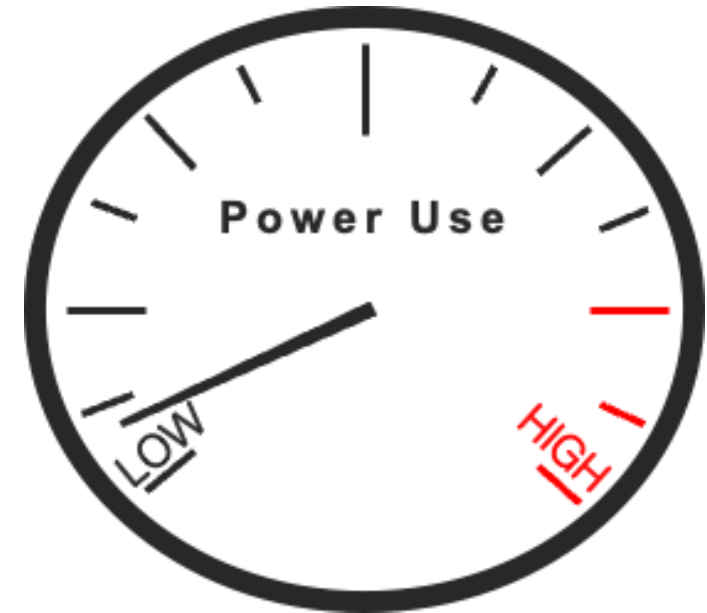
```
Cat9300-2#
Cat9300-2#sh ver | inc IOS XE
Cisco IOS XE Software, Version 17.15.02
Cat9300-2#
Cat9300-2#sh hardware led
Load for five secs: 0%/0%; one minute: 0%; five minutes: 0%
Time source is NTP, 11:10:40.693 Eastern Wed Jan 22 2025
----- show hardware led -----

Current Mode: STATUS
LED Auto off: Enabled

SWITCH: 1
SYSTEM: GREEN
MASTER: GREEN
STATUS: (40) Gi1/0/1:BLACK Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK
CK Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/
BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
DUPLEX: (40) Gi1/0/1:BLACK Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK
CK Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/
BLACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
SPEED: (40) Gi1/0/1:BLACK Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK G
K Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/
LACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
STACK: (40) Gi1/0/1:BLACK Gi1/0/2:BLACK Gi1/0/3:BLACK Gi1/0/4:BLACK Gi1/0/5:BLACK G
K Gi1/0/18:BLACK Gi1/0/19:BLACK Gi1/0/20:BLACK Gi1/0/21:BLACK Gi1/0/22:BLACK Gi1/0/
LACK Te1/1/8:BLACK Fo1/1/1:BLACK Fo1/1/2:BLACK Twe1/1/1:BLACK Twe1/1/2:BLACK
STACK POWER: BLACK
XPS: BLACK

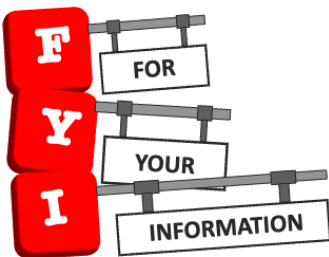
RJ45 CONSOLE: GREEN
USB CONSOLE: BLACK
BEACON: BLACK

Cat9300-2#
Cat9300-2#
```



# Demo3 – Reduce Power

- Show Meraki Camera
- Show Template



Name

DEVNET-1060-Shut LED

Inventory

Project

Execution Environment

Templates > DEVNET-1060-Shut LED

## Details

◀ Back to Templates   Details   Access   Notifications   Schedules   Jobs   Survey			
Name	DEVNET-1060-Shut LED	Job Type ?	run
Inventory ?	Homenet Switches	Project ?	CLUS25-DEVNET-1060 (DO_NOT_DELETE)
Playbook ?	03-shut-led.yaml	Forks ?	0
Timeout ?	0	Show Changes ?	Off
Created	1/9/2025, 10:18:56 PM by timmay	Last Modified	6/1/2025, 10:24:17 PM by timmay
Credentials ?	SSH: IOSXE - tinglen		
Labels ?	1060   devnet-1060		

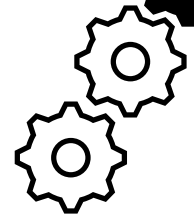
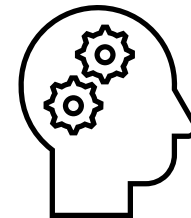
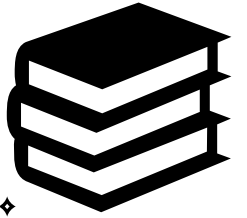
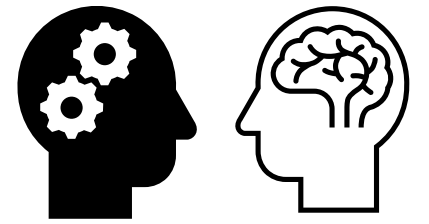


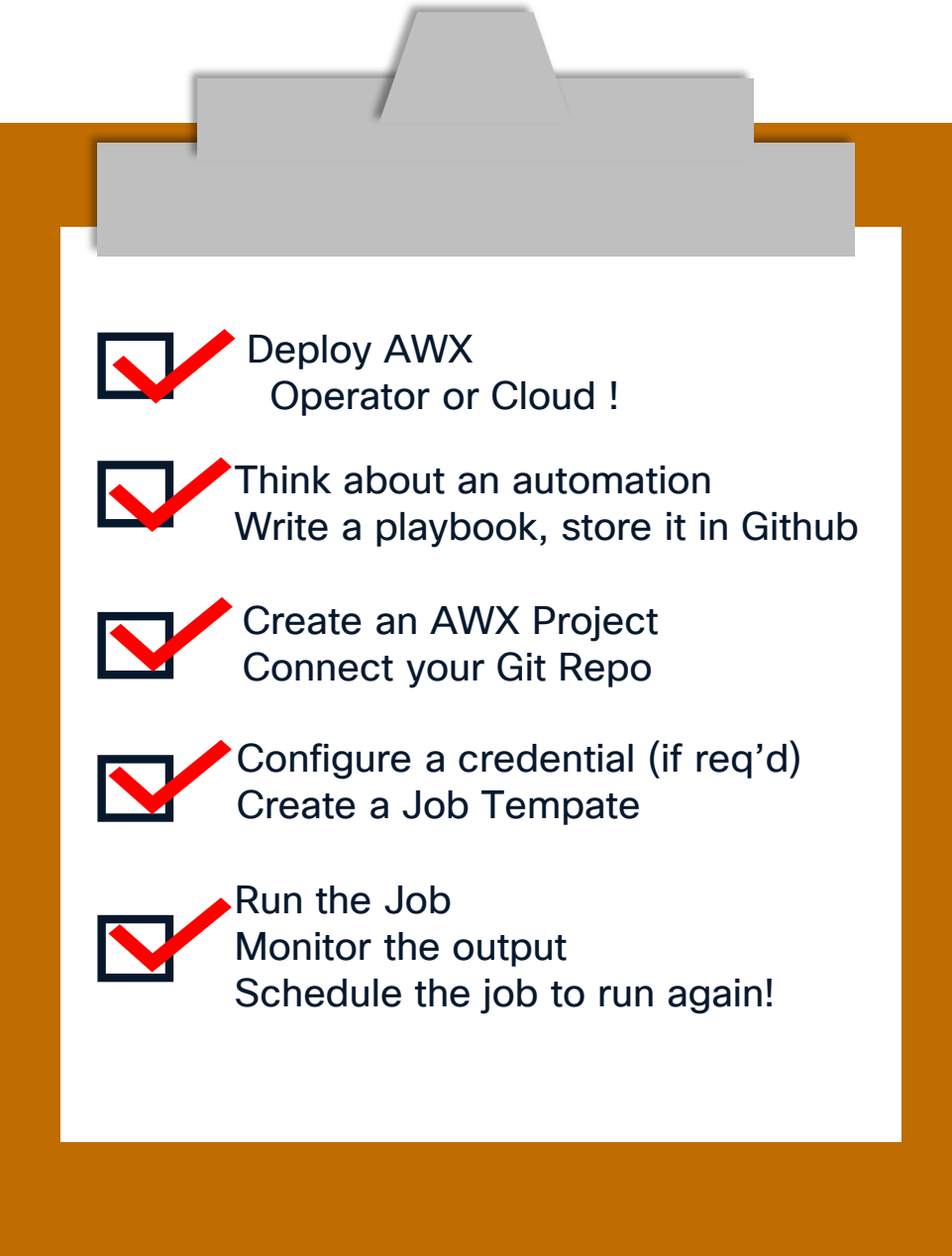


**Wrap this party up!!!**

# Recap

- Hosts and Inventories – Perform tasks on these devices
- Projects – Collections of Playbooks stored in Source Control
- Credentials – typically username & password
  - VERY Flexible with Custom Credential Types
  - Dive DEEP on Thursday June 12 @ 11:30 am DEVNET-2517
- Templates – set of parameters for running a job \ playbook
- Automate – Replace Certificates, Backups, Hardening (compliance)
- Save power, turn off interface LEDs



- 
- ☒ Deploy AWX  
Operator or Cloud !
  - ☒ Think about an automation  
Write a playbook, store it in Github
  - ☒ Create an AWX Project  
Connect your Git Repo
  - ☒ Configure a credential (if req'd)  
Create a Job Template
  - ☒ Run the Job  
Monitor the output  
Schedule the job to run again!





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**Contact me at:** Webex App

Thank you

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