

# Ansible

ANSIBLE HANDS-ON INTRODUCTION

### What is Ansible

- Ansible is the simplest way to automate apps and IT infrastructure. Application Deployment + Configuration Management + Continuous Delivery.
- It's an automation engine that runs Ansible Playbooks.



# Why Ansible

#### Simple

Human readable automation

No special coding skills needed

Tasks executed in order

Get productive quickly

#### **Powerful**

App deployment

Configuration management

Workflow orchestration

Orchestrate the app lifecycle

#### **Agentless**

Agentless architecture

Uses OpenSSH and WinRM

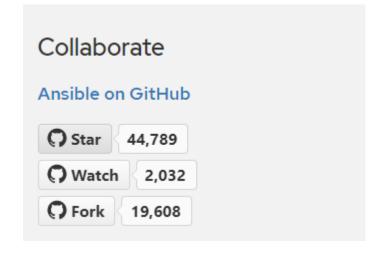
No agents to exploit or update

Predictable, reliable and secure



## Ansible Community

http://ansible.com/community



#### Ansible Galaxy

Ansible Galaxy is an online community for finding, sharing and re-using Ansible automation content.



### Ansible Module

https://docs.ansible.com/ansible/latest/modules/list\_of\_all\_modules.html



### Ansible ad hoc-commands

- Ad-hoc commands are great for tasks you repeat rarely. For example, if you want to power off all the machines in your lab for Christmas vacation, you could execute a quick one-liner in Ansible without writing a playbook. An ad-hoc command looks like this
- https://docs.ansible.com/ansible/latest/user\_guide/intro\_adhoc.html#intro-adhoc

```
$ ansible [pattern] -m [module] -a "[module options]"
```



# Ansible Playbook

- Playbooks are designed to be human-readable and are developed in a basic text language. There are multiple ways to organize playbooks and the files they include, and we'll offer up some suggestions on that and making the most out of Ansible.
- https://docs.ansible.com/ansible/latest/user\_guide/playbooks\_intro.html



#### Ansible Roles

- ▶ Roles are ways of automatically loading certain vars\_files, tasks, and handlers based on a known file structure. Grouping content by roles also allows easy sharing of roles with other users.
- https://docs.ansible.com/ansible/latest/user\_guide/playbooks\_reuse\_roles.html



## Ansible-Galaxy

- Ansible Galaxy is a repository for Ansible Roles that are available to drop directly into your Playbooks to streamline your automation projects. ... It is easy to get up and running with Ansible. Even a new sysadmin could start automating with Ansible in a matter of a few hours. Ansible automates using the SSH protocol
- https://galaxy.ansible.com/

