



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.



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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



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Ansible Community

► <http://ansible.com/community>

Collaborate

Ansible on GitHub

 Star 44,789

 Watch 2,032

 Fork 19,608

Ansible Galaxy

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



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Ansible Module

- ▶ https://docs.ansible.com/ansible/latest/modules/list_of_all_modules.html



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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/>



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