

What is inventory

Ansible works against multiple managed nodes or “hosts” in your infrastructure at the same time, using a **list or group of lists** known as **Inventory**.

Inventory file is a **collection of hosts(nodes)** which are managed by ansible control node.

Hosts information can be defined in following ways.

- Default Location: **/etc/ansible/hosts**
- Use -i option : **ansible -i my_hosts**
- Defined in **ansible.cfg** file

Ansible modules

A **module** is a **reusable, standalone** script that Ansible runs on your behalf, either locally or remotely.

Modules interact with your *local machine, an API, or a remote system* to *perform* specific *tasks* like

Creating users

Installing packages

Updating configurations

Spinning up instances *Etc...*

Modules are the programs that perform the actual work of the tasks of a play

Ansible ships with thousands of modules.

Ansible playbook

- A playbook is a text file written in YAML (YAML Ain't Markup Language) format, and is normally saved as `.yaml`.
- The playbook begins with a line consisting of three dashes (`---`) as a start of document marker.
- An item in a YAML list starts with a `single dash` followed by a `space`.
- `hosts` and `tasks` are `mandatory` items in a playbook
- The playbook primarily uses `indentation` with `space characters` to indicate the structure of its data
- `Modules` are used to perform `tasks`
- `Comment` start with `#`

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- **Comment** start with **#**

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```
create_user.yaml
---
- hosts: all
  become: true
  tasks:
    - user: name=john
```

```
ansible all -m user -a "name=john" -b
```

What do we cover

- **Modules**

- Yum
- File
- Copy

- **Conditions**

- When
- With_items
- Notify & handlers



ANSIBLE