
What is Ansible?

- ❖ Open Source (community)
- ❖ Agentless
- ❖ Idempotent
- ❖ Thing Doer



What is Ansible Like?

❖ Opinionated

❖ Platform

❖ Ecosystem

❖ Managed Nodes

❖ Control Node

❖ Inventory

❖ Module

❖ Task

❖ Role

❖ Playbook

❖ Collection

Directory Layout

The top level of the directory would contain files and directories like so:

```
production          # inventory file for production servers
staging             # inventory file for staging environment

group_vars/
  group1.yml         # here we assign variables to particular groups
  group2.yml
host_vars/
  hostname1.yml      # here we assign variables to particular systems
  hostname2.yml

library/             # if any custom modules, put them here (optional)
module_utils/        # if any custom module_utils to support modules, put them here (optional)
filter_plugins/      # if any custom filter plugins, put them here (optional)

site.yml            # master playbook
webservers.yml       # playbook for webserver tier
dbservers.yml        # playbook for dbserver tier

roles/
  common/            # this hierarchy represents a "role"
    tasks/           #
      main.yml        # <-- tasks file can include smaller files if warranted
    handlers/        #
      main.yml        # <-- handlers file
    templates/        # <-- files for use with the template resource
      ntp.conf.j2     # <----- templates end in .j2
    files/            #
      bar.txt         # <-- files for use with the copy resource
      foo.sh          # <-- script files for use with the script resource
    vars/             #
      main.yml        # <-- variables associated with this role
    defaults/         #
      main.yml        # <-- default lower priority variables for this role
    meta/             #
      main.yml        # <-- role dependencies
    library/          # roles can also include custom modules
    module_utils/     # roles can also include custom module_utils
    lookup_plugins/   # or other types of plugins, like lookup in this case

webtier/            # same kind of structure as "common" was above, done for the webtier role
monitoring/         # ""
fooapp/             # ""
```