

# Ansible

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Mainly using for :-

1. Provisioning
2. Config mgmt

```
Ansible ----> yaml
|
|
|-----> Playbooks (for writing codes)
|-----> agentless
```

Ansible have :

1. Control node  
Machine in which is installed application is control node (take is one server make it as ansible and use it for other's managing)
2. Manage node  
Managing other VM's

```
Ansible -----> |-----> Provisioning
                  |-----> Configuration
                  |-----> Deploy (CI\CD)
                  |-----> Network automation (using by Cisco\fs...etc)
                  |
                  |-----> Automating Vlan
```

For windows we install WSL distribution for

Password Authentication;

By giving **password** or **pem** file we can do password authentication.

- For updating ssh key on client machine `sudo vim /etc/ssh/sshd_config.d/60-cloudimg-settings.conf`

Inventory we can write two way

- a. Inventory.ini
  - i. Eg: create a new file
    - 1) Vim inventory.ini
    - 2) ubuntu@ip-address
    - 3) ubuntu@ip-address
- a. yaml

Ansible Playbook

Yaml;

Is a human readable data serialization language

When we want write into python programing , we just input data into python.

- String, numbers and Booleans
- List
- Dictionaries
- List of Dictionaries

- On first line always have provide three hifen to understand this is yaml.

Ansible playbook structure

- Same like yaml