**Ansible**

### Ansible is an open-source software provisioning, configuration management, and application-deployment tool enabling infrastructure as code.

It is like a control node which targets the local system and manages the configuration.

Ansible is written in Python.

Playbooks are **the files where Ansible code is written**. Playbooks are written in YAML format. YAML stands for Yet Another Markup Language. Playbooks are one of the core features of Ansible and tell Ansible what to execute.



Format of Playbook.

Tasks are to be assigned as the clients.



Installed ansible.

Before Ansible

One administrator cannot handle the tasks of other clients or nodes.So here’s the picture of Ansible comes.



Syntax of Playbook as there are other node which are assigned to many tasks.

As there is a local machine i.e. Administrator which consists of playbook and inventory files which have the configuration of other systems and pushed to nodes which connects via SSH and feedback is been sent to local machine if changes made 

Benefits Of Ansible

Local Machine and Clients Machine or node Work

Yaml files

Automated reporting while running the playbook.

Connection to the client side while providing Ip address ,username and password of the client.

Modules (also referred to as “task plugins” or “library plugins”) are **discrete units of code that can be used from the command line or in a playbook task**.

Running file in terminal

Challenge 

Solution for the challenge….Here 2 tasks are running



Automation And Orchestration

Here’s the example of orchestration where multiple tasks are running.