

## Assignment - 8

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B12 - 20

Aim:- To implement Configuration Management using Ansible

Theory :-

Ansible is the simplest solution for configuration management available. It's designed to be minimal in nature, consistent, secure and highly reliable variable, with an extremely low learning curve for administrators, developers and IT managers. Ansible configurations are simple ~~data~~ description of your infrastructure (both human-readable and machine-processable) ensuring everyone on your team will be able to understand the meaning of each configuration task. New team members will be able to understand the meaning of each configuration task.

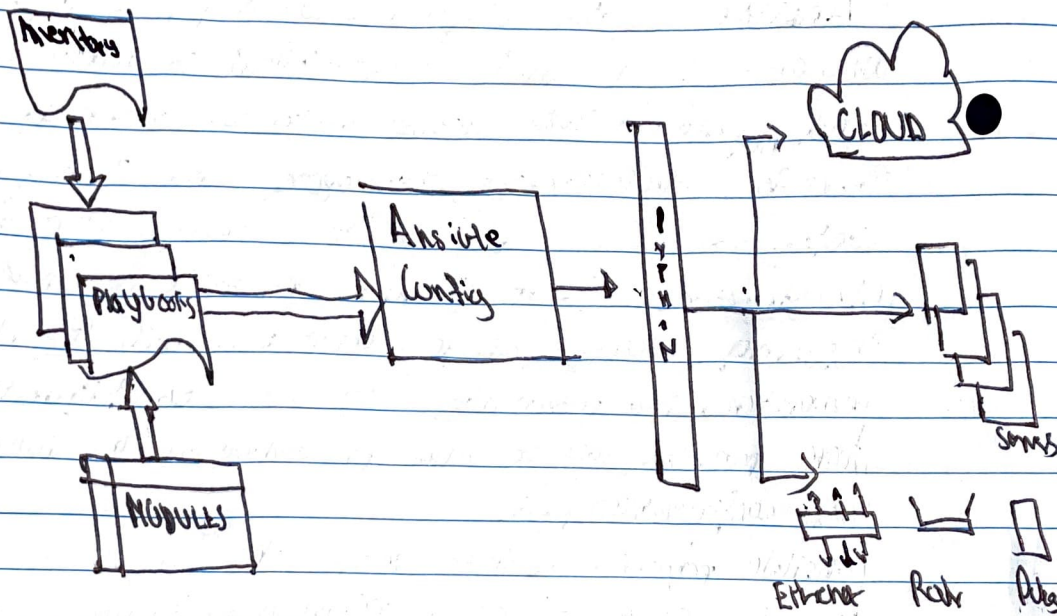
Ansible requires nothing more than a pass word or SSH key in order to start managing systems and can start managing them without installing any agent software, avoiding the problem of "managing the management" common in many automation systems. There's no more wondering why configuration management doesn't work, when to upgrade management agents or when to patch security vulnerabilities in those agents.

Ansible has a very simple architecture as they believe in simplicity. Its main components are Inventory, Playbook and module.

pro

The architecture of Ansible is shown below.

## Ansible Architecture



## Ansible Basic Commands

The ansible basic commands are as follows

- Host connectivity verification: `# ansible <group> -m ping`
- Rebooting systems: `# ansible <group> -a "/sbin/reboot"`
- Creating a new user: `# ansible <group> -m user -a "name=password:encryptedpassword"`



- User Deletion: # ansible <group> -m user -a "name = ansible state = absent"
- Permission changing: # ansible <group> -m file -a "dest = /home/ansible/file.txt mode = 777"
- Verify package installation with update: # ansible <group> -m yum -a "name = httpd state = latest"
- Verify package installation: # ansible <group> -m yum -a "name = httpd state = absent"
- Display host information: # ansible <group> -m setup | less

Conclusion:- Thus, we have successfully studied configuration Management using Ansible.