**ANSIBLE**

Ansible is an open source it configuration management, deployment and orchestration tool. It aims to provide large productivity gains to a wide verity of automation challenges.

Ansible History

* Michael Dehaan developed ansible and the ansible project began in February 2012.
* Redhat acquired the ansible tool in 2015.
* Ansible is available for Rhel, Debian, CentOS, Oracle Linux.

**Ansible Server**

The machine where ansible is installed and from which all task and playbooks will be run.

**Module**

Basically a module is a command or set of similar commands meant to be executed on the client side.

**Task**

A task is a section that consist of a single procedure to be completed.

**Role**

A way of organizing a tasks and related files to be later called in a playbook.

**Fact**

information fetched from the client system from the global variables with the gather-facts operation.

**Inventory**

file containing data about the ansible client servers.

**Play**

execution of the Playbook.

**Handler**

task which is called only if a notifier is present.

**Notifier**

Section attributed to a task which calles a handler if the output is changed.

**Playbooks**

It consists code in yamal format, which describes tasks to be executed.

**Host**

nodes which are automated by ansible.

Ansible is Agentless. There is no agent or client on node.

Ansible communicate with node with SSH.

Playbook = Jahan hum code likhte h use Playbook khte h. (Chef me hum use recipe khte the).

Ansible is a configuration management tool.

We use Yamal (Yet Another Markup Language) in Ansible.

Yamal works on Key-Pair.

Yamal is human readable language.

Ansible Tower is the new tool by Red Hat

**Advantages of Ansible**

* ansible is free to use by everyone.
* It is very secure due to its agentless capabilities and open SSH security features.
* Ansible does not need any special system administrator skill to install and use it.
* Push mechanism.

**Disadvantages of Ansible**

* Insufficient user interface, though ansible tower is GUI, but it is still in development stages.
* Can’t archive full automation by ansible.
* New to the market, therefor limited support and document is available.