**Ansible**

**Alternative tools as like ansible Puppet,chef,salt,system Manager(ssm)**

**1)Ansible is a Configuration Management tool ---------- means centralized administration**

**2)It is an IT management (automation) tool works by using python scripts , python to be installed its default if not to be install.**

**3) by using a Single Ansible Machine we can update all managing nodes**

**In all organization mostly only 1 ansible server and 1 back ansible server will available**

**4)Ansible work without agent (agent less work)**

**5)In Ansible sshd is act as a agent**

**6)agentless tool-no need to configure in client level**

**7) Push Mechanism**

**8)Python – to be installed from 2.6 version**

**Advantages:**

**1)Ansible nothing but simple IT management engine.**

**2)we can monitor , Manage & configure multiple servers from single server**

**(Ansible master ) .**

**3)we can configure and modify multiple systems at a time (in a single shot)**

**4)Easy centralized Administration**

**About Ansible:**

1. **Open source**
2. **written in python**
3. **Highly scalable(we can configure multiple system)**
4. **Agent less Mechanism**
5. **Push Mechanism**

**Configuration Files:**

**/etc/ansible/ansible.cfg--------inventory file we can specify the path**

**/etc/ansible/hosts**

**/etc/cloud/cloud.cfg ----for AWS by using Ansible**

**\*\*\*\*\*\*\*\*Very important directories\*\*\*\*\*\***

**#cd /etc/ansible**

**Ansible.cfg hosts roles**

**Ansible Commands:**

**#ansible-doc -l --------------list of all documents or all modules**

**#ansible --verion------------to check ansible version**

**#python --version;java –version;oracle –version**

**#ansible –list-hosts**

**#ansible <hostname> -m ping --------- to check individual host info**

**AD-HOC COMMANDS**

**-m(module)---- which type of module is using in ansible**

**-a(argument) ---- means commands is firing**

**#ansible <hostname> -m ping**

**#ansible <group name> -m ping**

**#ansible <group name> -m setup------**gathering facts from all nodes connected to ansible master server

(this command do all python scripts copied to user home dir and execute that script as local script (./scipt)and that information will be displayed in master server)

**#ansible all -m ping------ to check all server/ip info at a time**

**#ansible all -a “df -h** /”------ to check root filesystem output

**#ansible vara-sys-15 -m command -a “uptime”**

Here,

ansible-command

vara-sys-15 inventory/groupname/hostname

-m ------module----which type of module is using

-a ---argument ------what we are asking

“uptime”---command

**#ansible vara-sys-15 -m shell -a “ls –l /tmp/”**

**#ansible all -m setup -a “filter=ansible\_hostname “**

**#ansible all -m setup -a “filter=io\_addr“**

**Inventory**