**Ansible Tutorial Points**

**1st Tutorial Getting started with Ansible**

* The purpose of Ansible is to provision servers.
* Ansible Server will connect to all the server to issue commands for provisioning.
* Ansible is installed on the Ansible server and make connection to the server via SSH and provisioning it.

**2nd Tutorial : Ansible & SSH Overview & Setup**

* ssh-keygen -t id\_ed25519 -C "Ansible key"
* cd /home
* cd balaji
* cd .ssh file key will exists
* ssh-copy-id -i id\_ed25519 subha@192.168.1.5
* ansible -all -m ping

**3rd Tutorial : Getting started with Ansible 03 - Setting up the Git Repository**

the git hub respository

Pull down the Respository from git hub respository and make changes and push up the changes to github.

**Create an user name for git hub**

* Copy the ssh key from ansible system and configure it in github
* git clone "github address" so that file from the github will be moved to the linux system.
* git config --global user.name "vbalajikumaran"
* git config --global user.email "vbalajikumaran@yahoo.co.in"
* cat ~/.gitconfig

**Git Commands**

* git status
* git diff <filename>
* git add <filename>
* git commit -m "comments" All uncommited changes.
* git push origin main

**4th Tutorial Running command**

* sudo apt update
* sudo apt install ansible
* ansible all --key-file ~/.ssh/ansible\_key -i inventory -m ping
* ansible all --list-hosts
* ansible -all -m gather\_hosts
* ansible all -m gather\_facts --limit subha@192.168.1.5

Creating config.cfg

[defaults]

inventory = inventory

private\_key\_file = ~/.ssh/ansible\_key

**5th Tutorial Running elevated commands**

* sudo-apt update : ansible all -m apt -a update\_cache=true --become --ask-become-pass
* installing vim-nox application : ansible all -m apt -a name=vim-nox --become --ask-become-pass (in client system run which vim-nox ,apt-search vim-nox)
* intallingtmuxapplicaiton :ansible all -m apt -a name=tmux --become --ask-become-pass

(in client system run which tmux ,apt-search tmux)

* in client system we can also see the history of installation

cd /var/log/apt/history.log

**updating all the upgrade in all the server**

* Server system: ansible all -m apt -a "upgrade=dist" --become --ask-become-pass
* client system: sudo apt dist-upgrade -- it should be all application are upgraded

**6th Tutorial Working with Playbook**

* 2 playbook file create install\_apache.ymlremove\_apache.yml
* ansible-playbook --ask-become-pass remove\_apache.yml

**7th Tutorial Working with When commands**

Differentiate playbook by hosts in terms of which distribution is running. (Ubuntu , Debian or Red hat)

cat /etc/os-release -- To check the server details

When command usage

* when ansible\_distribution == "Debian"
* when ansible\_distribution in ["Debian","Ubuntu"]
* when ansible\_distribution == "Ubuntu" and ansible\_distribution\_version = "8.2"

ansible all -m gather\_facts --limit subha@192.168.1.5

Centos http server will not run automatically following steps need to do

* systemctl status httpd
* sudo systemctl start httpd
* sudo firewall-cmd --add-port=80/tcp output will be --success
* run the ipaddress on the browser