**Section-8 Configuration Management**

**Lesson-02: Installation and configuration of Ansible**

First we will be updating our Centos 7 Linux distribution.

# yum install epel-release

# yum update

Next we need to install pre-requisites for ansible

# yum install git python python-pip openssl ansible –y

We will goto the ansible configuration file and uncomment the below lines

# vi /etc/ansible/ansible.cfg

inventory

sudo\_user

So now lets take a look at our host file, we will make our host file

# vi /etc/ansible/hosts

[local]

localhost

[web01]

web01.linuxlab.com

Now we will be creating a user who has sudo rights so that when we run our playbooks it should run properly

# adduser ansible

# passwd ansible

# visudo

ansible ALL=ALL NOPASSWD: ALL

We have to create this account on the other host as well

Next we need to generate ssh keys so that we don't have to pass a password to run the playbook.

# su ansible

# ssh keygen

# ssh-copy-id ansible@web01.linuxlab.com

**Lesson-03: Running Ansible Commands**

To list all the nodes that are associated with ansible control server

# ansible all -m ping

Now if we list of home directories for ansible user

# ansible all -a "ls -al /home/ansible"

Now we will run a command that we donot have the priviliges for it

# ansible all -a "cat /var/log/messages" (contains specific permissions)

how do we fix that, we can fix that via S flag which is used to sudo permission, as in previous video we have configure ansible for sudo so that if we specify S flag than this command will run as root user.

# ansible all -s -a "cat /var/log/messages"

For copying a file to remote host

# vim test.txt

this is a test

# ansible centos -m copy -a "src=test.txt dest=/tmp/test.txt"

For installing a package

# ansible centos -s -m yum -a "name=elinks state=latest"

For removing a package

# ansible centos -s -m yum -a "name=elinks state=absent"

**Lesson-04: Playbook Structure with YAML**

# cd ansible/playbooks

# vim structure.yaml

- host: centos

  remote\_user: ansible

  become: yes

  become\_method: sudo

  connection: ssh

  gather\_facts: yes

  vars:

    username: newuser

  tasks:

  - name: Install httpd server

    yum:

        name: httpd

        state: latest

    notify:

    - startservice

  handlers:

  - name: startservice

    service:

        name: httpd

        state: restarted

handlers: its going to handle anything that you pass in as an notification

# ansible-playbook structure.yaml