ProLUG – Ansible Automation

Required Materials

Putty

Rocky Server

Root or sudo command access

EXERCISES (Warmup to quickly run through your system and familiarize yourself)

1. mkdir /root/ansible_madness
2. cd /root/ansible_madness
3. dnf whatprovides ansible
   a. Where is Ansible installed on this system from?
4. ansible --version
   a. What version of Ansible do you have?
5. ansible- <mash your tab key>
   a. What other ansible-<tools> do you have available?
6. ansible localhost -m shell -a uptime
   a. Compare this with `uptime` does it match?
7. ansible -vvv localhost -m shell -a uptime
   a. What happens here? What is Ansible showing you?

LAB

Create an inventory:

1. While still in the /root/ansible_madness directory, create a file hosts

   vi /root/ansible_madness/hosts

   Populate the file as follows

   [servers]

   192.168.200.101

   192.168.200.102

   192.168.200.103

Run Ad Hoc commands against your servers

This will test your connection into all the servers.

1. ansible servers -i hosts -u inmate -k -m shell -a uptime

Use this password: LinuxR0cks1!

Do the same thing, but this time be verbose

2. ansible -vvv servers -i hosts -u inmate -k -m shell -a uptime

Create a playbook to push over files.

1. echo "This is my file <yourname>" > somefile

2. vi deploy.yaml

   Populate it as follows

```
---

- name: Start of push playbook
  hosts: servers
  vars:
  gather_facts: True
  become: False
  tasks:

    - name: Copy somefile over at {{ ansible_date_time.iso8601_basic_short }}
      copy:
        src: /root/ansible_madness/somefile
        dest: /tmp/somefile.txt
```

3. Execute your playbook

   ansible-playbook -i hosts -k deploy.yaml

4. Verify that your file pushed everywhere

    ansible servers -i hosts -u inmate -k -m shell -a "ls -l /tmp/somefile"

Pull down a github repo

1. git clone https://github.com/het-tanis/HPC_Deploy.git

   cd HPC_Deploy

   What do you see in here?

   What do you need to learn about more to deploy some of these tools?

   Can you execute some of these, why or why not?