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
   1. Where is Ansible installed on this system from?
4. ansible --version
   1. What version of Ansible do you have?
5. ansible- <mash your tab key>
   1. What other ansible-<tools> do you have available?
6. ansible localhost -m shell -a uptime
   1. Compare this with `uptime` does it match?
7. ansible -vvv localhost -m shell -a uptime
   1. 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

* 1. 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

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- 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

1. Execute your playbook

ansible-playbook -i hosts -k deploy.yaml

1. 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?