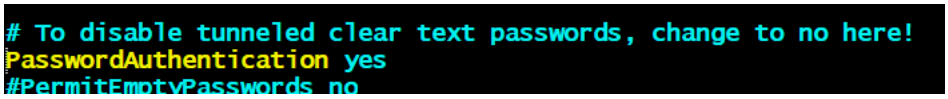
Ansible Setup

1. Create Controller Instance in AWS EC2
   Edit inbound rules under Security Group, and add:
   a. TCP 8080
   b. HTTP
2. Create ManagedNode Instance in AWS EC2
3. Connect to Controller and ManagedNode separately
4. Goto ManagedNode and run the below commands:

a. *sudo apt-get update*

b. *sudo passwd ubuntu (give password as ubuntu)*

c. *sudo vim /etc/ssh/sshd_config*



Save and quit using Esc:wq

d. *sudo service ssh restart*

5. Goto to Controller and run below commands
   a. *sudo apt-get update*
   b. *sudo apt-get install software-properties-common*
   c. sudo apt-add-repository ppa:ansible/ansible
   d. sudo apt-get update
   e.
   f. sudo apt-get install -y ansible
   g. *ansible –version*
   h. *sudo ls /etc/ansible/*
      **ensure hosts file is there*

6. ssh-keygen -t rsa -b 4096
   It will ask for location, just press enter
   It will ask for passphrase – give some text and remember it
7. sudo ls .ssh/ (sudo ls -h /home/ubuntu/.ssh/)
   ensure you have id_rsa.pub file
8. sudo vim .ssh/id_rsa.pub
   Copy the entire content to a notepad so that it can be copied into .ssh/authorizedkeys file in ManagedNode
   Looks like:


```
ssh-
rsaAAAAB3NzaC1yc2EAAAADAQABAAABgQC2e11Eb8j9N56h2QIcfca3ce+o0II+er+YIjhVFw4ZKpUvOX3t
ZbFY2eOPIc8YB3d2gJQWHQIa+43eO/grfseFC3O1DPJUIovxNwLbxRkhxqzKxSGZ8dGx1wfAXzpUNmX7OB4
+jWOauTqqoDDgsb+QwwcDumnsYsmFW43DZu7rfRXCo9rex1X5wlO2oOHea/YY0FXNHu9BnQwWq6juICmxCw
e1paaIG/lk4n+ByzxjrwRIjv7ZhNrYYoNJ3n/hI15g4vIped5BsKQmTdnGUcJXZWpd9rrvYNPaOfe6733ER
sKbaH3PYZ1rCDqeOKijXGdD7Q5y4uXQdkeU/cCzrDaqvi6fu9OEeqP1kMg2m6qbipHLJOYCK5MsasYhjmbt
fUnrNeOTELEDUzhe5QdClMf9mLCh5gMBEKq/amdjoMN4+fJQM2pBHuSZlTWQ4lGzjTCOQWXLEltgw4L7mWu
T4fm/bXfRiNE/9S4sb3tWBUJEvfxaWZwDxD1I5MIHHnYv7+E= ubuntu@ip-172-31-4-180
```


9. Open ManagedNode and run the below commands
   sudo vim .ssh/authorized_keys
   Paste the rsa key in this file, and save it using Esc:wq

10. To check whether ssh authentication is working run the below command

ssh -v ubuntu@ManagedNode ip address

Once connected successfully, come out from using exit command

11. Open Controller Node and edit the hosts file located at /etc/ansible/hosts using below command:
    sudo vim /etc/ansible/hosts
    add IP address of Managed node and save the file using Esc:wq

12. Now ready to run the ansible commands

    ansible all -i /etc/ansible/hosts -m command -a 'free'

    ansible all -i/etc/ansible/hosts -m command -a 'touch f1 f2 f3'

ansible all -m apt -a 'name=git state=present' -b

ansible all -m apt -a 'name=git state=absent' -b

ansible all -m apt -a 'name=tomcat8 state=present update_cache=yes' -b (use tomcat9)

```
ansible all -m file -a 'name=/tmp/file0 state=touch'
```