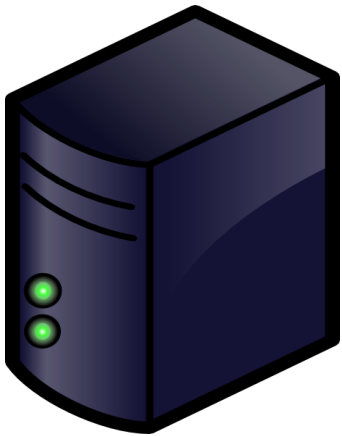


# Ansible – OS Hardening



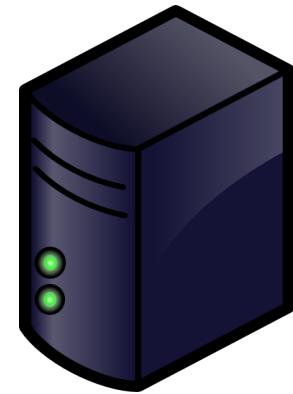
Ansible Server – To Setup Ansible.  
OS: Centos  
IP: 10.0.0.1

Login Credentials  
Username: vagrant  
Privatekey: privatekey1



Ansible Client  
Manage State of this  
Server.  
OS: Ubuntu/Centos  
IP: 10.0.0.2

Login Credentials  
Username: vagrant  
Privatekey:  
privatekey2(pem)



Ansible Client  
Manage State of this Server.  
OS: Ubuntu/Centos  
IP: 10.0.0.3

Login Credentials  
Username: vagrant  
Privatekey:  
privatekey3(pem)

## 1.Install Ansible

```
sudo yum install epel-release -y  
sudo yum install ansible -y
```

## 2.Setup Client Configuration

```
echo -e "[servers]" >> /etc/ansible/hosts  
echo -e "10.0.0.2 ansible_ssh_user=vagrant ansible_ssh_private_key_file=/etc/ansible/privatekey2" >> /etc/ansible/hosts ('privatekey2  
is pem key. Change the permissions of privatekey2 to 600)  
echo -e "10.0.0.3 ansible_ssh_user=vagrant ansible_ssh_private_key_file=/etc/ansible/privatekey3" >> /etc/ansible/hosts ('privatekey2  
is pem key. Change the permissions of privatekey2 to 600)  
echo -e "10.0.0.3 ansible_ssh_user=vagrant ansible_ssh_password=P@ssw0rd" >> /etc/ansible/hosts
```

## 3.Authorize Clients

```
ssh-keygen -t rsa (Specify the location and name(vagrant2) of the keygen to be created. Do not mention any passphrase)  
cat /root/.ssh/vagrant2 | ssh -i privatekey2 vagrant@10.0.0.2 'cat >> .ssh/authorized_keys && echo "Key copied"'  
ssh-keygen -t rsa (Specify the location and name(vagrant3) of the keygen to be created. Do not mention any passphrase)  
cat /root/.ssh/vagrant3 | ssh -i privatekey3 vagrant@10.0.0.3 'cat >> .ssh/authorized_keys && echo "Key copied"'
```

## 4.Download 'Ansible-hardening' Role from Github

```
cd /etc/ansible  
cd roles  
wget https://github.com/openstack/ansible-hardening/archive/master.zip  
yum install unzip -y  
unzip master.zip  
mv ansible-hardening-master ansible-hardening  
cd ..
```

## 5.Create playbook

```
cd /etc/ansible  
touch playbook.yml  
echo -e "- hosts: servers\n  roles:\n    - ansible-hardening" >> playbook.yml
```

## 6.Run the playbook

```
ansible-playbook playbook.yml
```

To perform steps 1,3 and 4, execute the bash script.  
Steps: 1.Execute the bash script. 2. Execute steps 2 and 3.

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