**Task:** Print Hostname of a VM which is not exposed to public using ansible

**Prerequisite:**

* Two Ubuntu VM’s with Public IP’s and an VM without having public IP
* One VM act as Bastion host and we can talk to the VM without public IP through this Bastion Host
* Another VM is our ansible controller

**Steps:**

* Establish password less SSH connection between **ansible controller** and **Bastion Host**
* Establish password less SSH connection between **bastion host** and **PrivateVM**

**Login to Ansible controller and follow below steps:**

* Install ansible in ansible controller VM
* Now, we have to edit ansible inventory file such that our ansible controller can talk to **PrivateVM** using **bastion host** as medium.

# vi /etc/ansible/hosts

* Go to last line of the inventory file and add the following lines

[privateVM]

10.0.0.27 ansible\_user=ubuntu ansible\_ssh\_private\_key\_file=osi.pem

[privateVM:vars]

ansible\_ssh\_common\_args='-o ProxyCommand="ssh -i osi.pem -W %h:%p [ubuntu@10.0.0.187"'](mailto:ubuntu@10.0.0.187\"')

* + Where 10.0.0.187 is IP of my Bastion Host
  + 10.0.0.27 is IP of my PrivateVM i.e., VM without public IP
  + Make sure you are having correct IP address, public key(.pem) and user name here
  + Since we established ssh connection between bastion host and ansible controller, we can talk with privateVM using Proxy option in ssh command to bastion host
* Check ansible connection between Private VM and ansible controller using following command

# ansible privateVM -m ping

* You should see output like this

10.0.0.27 | SUCCESS => {

"ansible\_facts": {

"discovered\_interpreter\_python": "/usr/bin/python3"

},

"changed": false,

"ping": "pong"

}

* Write a playbook which can print private VM hostname

# vi playbook.yml

* Copy paste the following lines

---

- hosts : private

tasks :

- name : command module

command : hostname

register : out

- name : print output

debug :

msg : "{{ out.stdout }}"

* Execute the playbook with the following command

# ansible-playbook playbook.yml

* You will see hostname in the output as below.

PLAY [private] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

TASK [Gathering Facts] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

ok: [10.0.0.27]

TASK [command module] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

changed: [10.0.0.27]

TASK [print output] \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

**ok: [10.0.0.27] => {**

**"msg": "ip-10-0-0-27"**

**}**

PLAY RECAP \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

10.0.0.27 : ok=3 changed=1 unreachable=0 failed=0 skipped=0 rescued=0 ignored=0