Module 4: Ansible on Cloud

Demo Document - 3

Demo: Password less authentication on AWS with Ansible.

Problem Statement:

Password less authentication on AWS with Ansible playbook.

1. Login to **EC2** host/machine.
   NOTE – Refer Module 13 Demo 2 for steps to create Amazon EC2 machine.

2. Create the file **hosts** inside the directory **Add-SSH-Key-EC2-Ansible** and update the hosts to which ssh key must be copied and define **HostKeyChecking** as no.

   mkdir Add-SSH-Key-EC2-Ansible

   vi hosts

   [hosts_add_key]
   18.191.56.95
   18.217.65.201

   [hosts_to_add_key:vars]
   ansible_ssh_common_args=”-o StrictHostKeyChecking=no”

```
root@DESKTOP-IDDOUJF:~/sanju/Add-SSH-Key-EC2-Ansible# cat hosts
[hosts_add_key]
18.191.56.95
18.217.65.201

[hosts_to_add_key:vars]
ansible_ssh_common_args="-o StrictHostKeyChecking=no"
root@DESKTOP-IDDOUJF:~/sanju/Add-SSH-Key-EC2-Ansible#
```

3. Create a playbook **key.yml** and paste the contents as shown below. Variables used and their definitions are given below.

   ```
   ---
   - name: " Add Public key to AWS EC2 Instances"
     hosts: hosts_add_key
     vars:
       - status : "present"
       - public_key : "~/.ssh/id_rsa.pub"
   ```

```
tasks:

- name: "Copy key file from"
  authorized_key:
    user: "{{ansible_user}}"
    state: "{{status}}"
    public_key: "{{ lookup('file', '{{ public_key }}')}}"
```

Status: add/remove ssh key from remote server.

Key: Public key which will be copied to the remote servers. If no value is passed default "**~/.ssh/id_rsa.pub**" will be copied

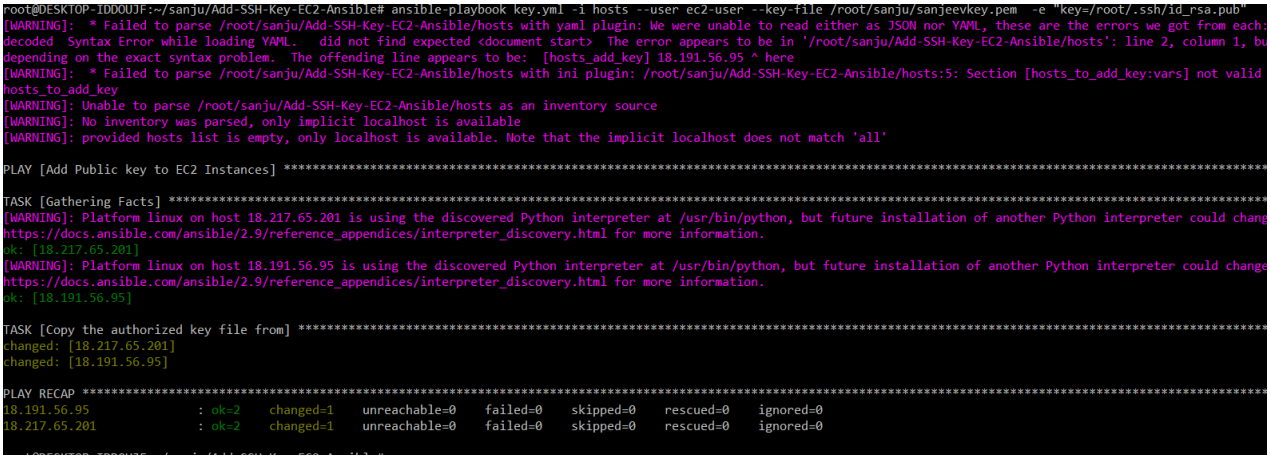
Ansible_user: EC2 instance username to connect remote machine.

4. Now run the playbook with your .**pem** file which is downloaded to login to AWS EC2 instances as shown below to copy the public key to the remote hosts. This will enable password less authentication to the remote hosts.

ansible-playbook key.yml -i hosts --user ec2-user --key-file /root/sanju/<your EC2 instance private key>-e "key=/root/.ssh/id_rsa.pub"

Example

ansible-playbook key.yml -i hosts --user ec2-user --key-file /root/sanju/sanjeevkey.pem -e "key=/root/.ssh/id_rsa.pub"



5. Now the user can validate using the below command that he can login to the server using his private key and without password.
   ssh -i /root/sanju/<your EC2 instance private key>@EC2 instance public IP
   Example:-
   ssh -i /root/sanju/sanjeevkey.pem ec2-user@18.191.56.95