Homework 1

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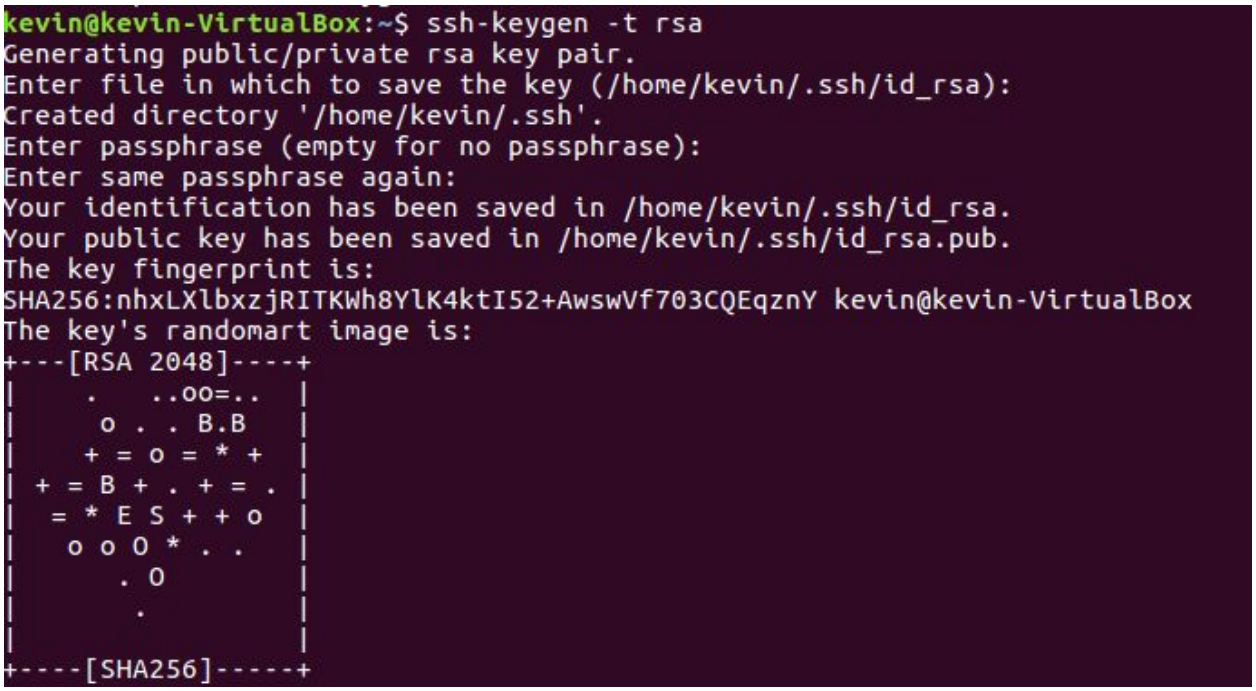
Github link: https://github.com/vetag/cmpe-172

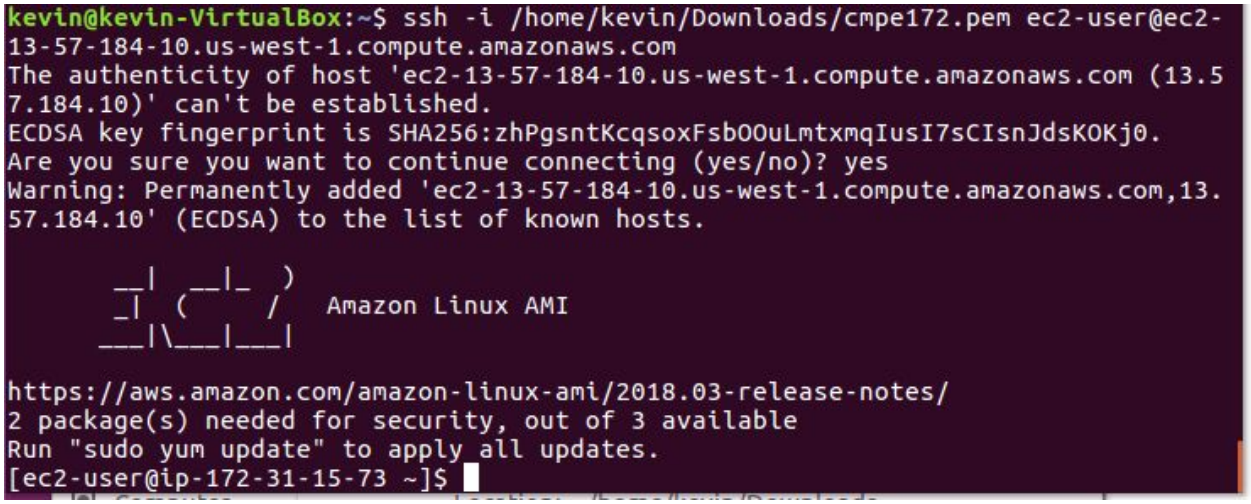
The purpose of this assignment was to create a website utilizing AWS and Ansible, reading “Hello World!”.

To start, Ansible was installed and an AWS EC2 instance was set up.

Screenshot of Ansible setup confirmation:



Screenshot of AWS EC2 connection success:

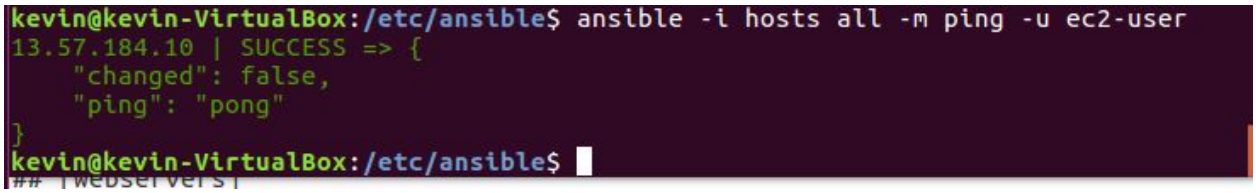



After setting up the AWS EC2 connection, we want to set up the Ansible Hosts file to include the IPv4 public IP and also connect the ssh private key file.

Screenshot of hosts file:


Now, we can confirm the link between AWS and Ansible by pinging our host.

Screenshot of successful ansible ping:

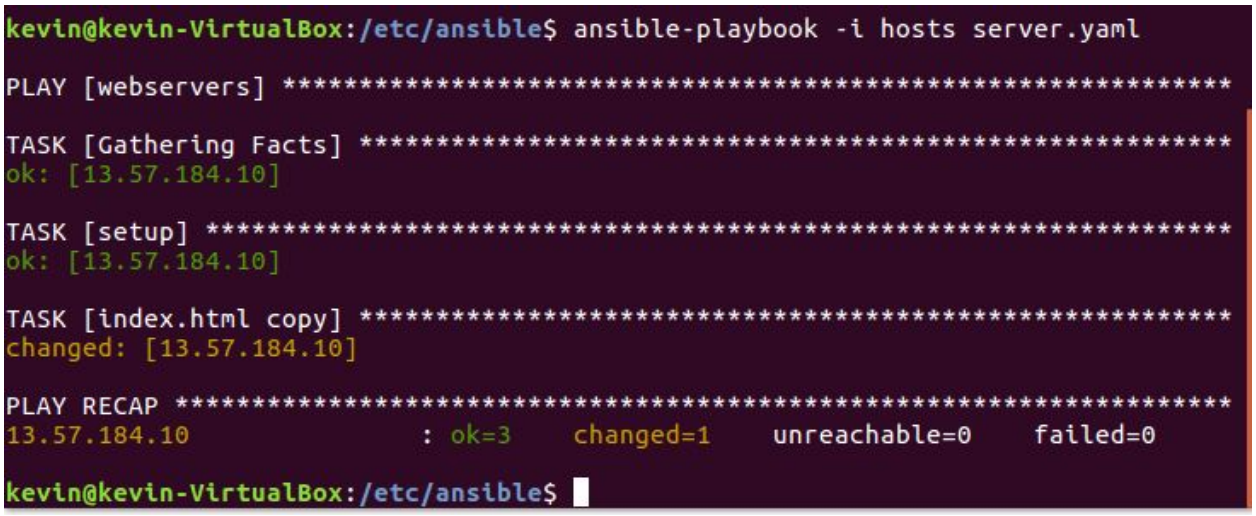



Because our ansible ping is successful, we can start setting up the Ansible playbook to set up the server.

Screenshot of Ansible Playbook:

```
---

- hosts: webservers
  remote_user: ec2-user

  vars:
   - WebsiteText: "Hello World!"

  tasks:
   - name: setup
     become: true
     yum: pkg=nginx state=installed update_cache=true

   - name: index.html copy
     become: true
     template: src=index.html.j2 dest=/home/ec2-user/nginx/index.html
...
```

Screenshot of Ansible Playbook in action:




Now that the playbook works, the server should be able to run by typing the IP address into the address bar.

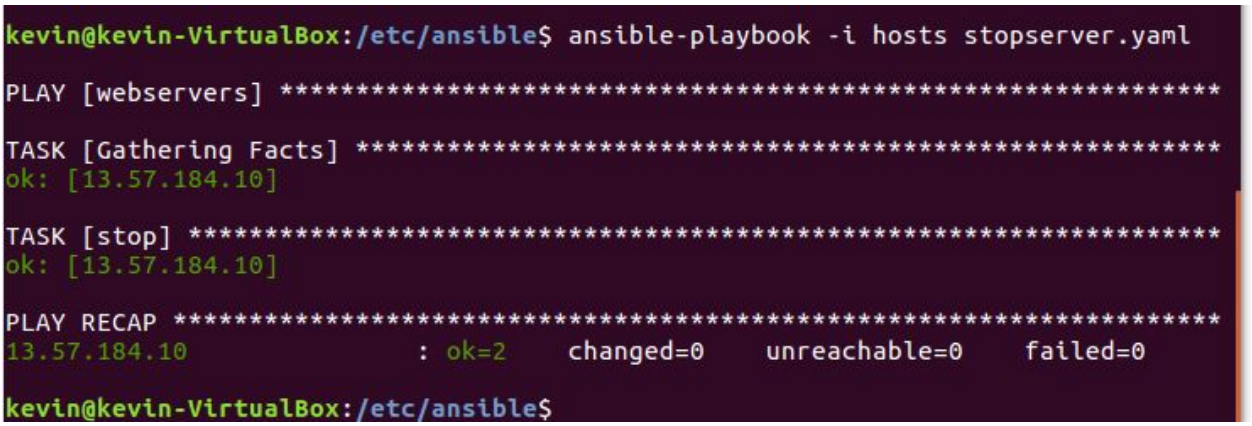
Screenshot of website working:


Now that resources are deployed, we can write a playbook to undeploy the resources.

Screenshot of ansible playbook to undeploy:

```
---

- hosts: webservers
  remote_user: ec2-user

  tasks:
   - name: stop
     become: true
     service: name=nginx state=stopped

...
```

Screenshot of undeploy in terminal:



Screenshot of webpage not working: