Bink Automation Test

Automation Test

Using a tool of your choice such as Bash, Chef, Ansible or similar automate the installation of a Web Server serving up some static content. Bonus points for the following:

- · Using Containers as part of your automation.
- Providing a Vagrantfile to allow us to test your code by simply running vagrant up.
- 1. Installed Vagrant
- Installed Virtualbox
- 3. Created user in AWS and downloaded credentials
- 4. Used Vagrant AWS provider to spin up EC2 instance in AWS

Access keys Use access keys to make secure REST or HTTP Query protocol requests to AWS service APIs. For your protection, you should never share your secret keys with anyone. As a best practice, we recommend frequent key rotation. Learn more Create access key Access key ID Created Last used Status AKIAT6H2PHPL6XAI7ZLE 2020-09-04 02:00 UTC+0100 2020-09-04 02:23 UTC+0100 with ec2 in eu-west-2 Active Make inactive

5. Hide AWS user credentials in environment variables. Make sure this AWS user is deleted once exposed

GNU nano 2.0.6 File: /Users/RegiBayoan/.zshrc

export VAGRANT_ACCESS_KEY_ID="AKIAT6H2PHPL6XAI7ZLE"

export VAGRANT_SECRET_ACCESS_KEY="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"

Vagrantfile code used for creating an EC2 instance

```
4 class Hash
    def slice(*keep_keys)
      h = \{\}
      keep_keys.each { |key| h[key] = fetch(key) if has_key?(key) }
     end unless Hash.method_defined?(:slice)
    def except(*less_keys)
      slice(*keys - less_keys)
    end unless Hash.method_defined?(:except)
   Vagrant.configure("2") do |config|
     config.vm.box = "dummy"
      config.vm.provider :aws do |aws, override|
       aws.access_key_id = ENV['VAGRANT_ACCESS_KEY_ID']
       aws.secret_access_key = ENV['VAGRANT_SECRET_ACCESS_KEY']
       aws.keypair_name = "intellipaat-london"
       aws.ami = "ami-04edc9c2bfcf9a772"
       aws.region = "eu-west-2"
       aws.instance_type = "t2.micro"
       aws.security_groups = ['vagrant-sg']
       config.vm.synced_folder ".", "/vagrant", disabled: true
       override.ssh.username = "ubuntu"
       override.ssh.private_key_path = "/Users/RegiBayoan/Downloads/intellipaat-london.pem"
```

Notes:

- class Hash was taken from the internet as a workaround for MethodNotFound error
- Used environment variables to hide sensitive aws credentials
- Created a custom security group to allow ALL TCP traffic (vagrant-sg)
- Line 28 was added to bypass SMB credentials prompt when doing vagrant up

6. vagrant up --provider=aws to execute

```
Provideraws

Bringing machine 'default' up with 'aws' provider...

⇒ default: Warning! The AWS provider doesn't support any of the Vagrant

⇒ default: high-level network configurations (`config.vm.network`). They

⇒ default: will be silently ignored.

⇒ default: Launching an instance with the following settings...

⇒ default: — Type: t2.micro

⇒ default: — AMI: ami-04edc9c2bfcf9a772

⇒ default: — Region: eu-west-2

⇒ default: — Keypair: intellipaat-london

⇒ default: — Security Groups: ['default"]

⇒ default: — Block Device Mapping: []

⇒ default: — Terminate On Shutdown: false

⇒ default: — EBS optimized: false

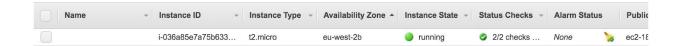
⇒ default: — Source Destination check:

⇒ default: — Assigning a public IP address in a VPC: false

⇒ default: Waiting for instance to become "ready"...

⇒ default: Waiting for SSH to become available...

⇒ default: Machine is booted and ready for use!
```



- 7. Ansible provisioner was used to transfer static content to EC2 instance
- 8. Docker provisioner was used for creating containers

Vagrantfile cont'd

```
config.vm.provision "ansible" do [ansible]
ansible.playbook = "playbook.yml"
end

config.vm.provision "docker" do [d]

d.build_image "/home/ubuntu/", args: "-t vagrant_image"
d.run "vagrant_image", image: "vagrant_image", args: "-d -it -p 80:80"
end

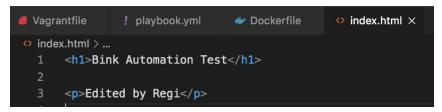
end

end
```

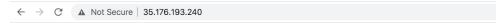
playbook.yml code

Dockerfile code

index.html code



Browser



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Edited by Regi

9. Lastly, cleaned up Vagrant environment

```
→ vagrant vagrant halt
==> default: Stopping the instance...
→ vagrant vagrant destroy
    default: Are you sure you want to destroy the 'default' VM? [y/N] y
==> default: Terminating the instance...
→ vagrant
```