Vagrant with aws

Begin by logging into your aws educate account:

You can click on the AWS console button to access AWS services.
If you click on account details, you will find some important information that vagrant will need:
Create a directory with a Vagrantfile
joe@CIT-SCC113-1143:~/aws2019/ubuntu$
Install a dummy box:

```
vagrant box add dummy https://github.com/mitchellh/vagrant-aws/raw/master/dummy.box
```

This information you should have got from account details:
Vagrant.configure("2") do |config|
  config.vm.box = "dummy"

  config.vm.provider :aws do |aws, override|
    aws.access_key_id = "ASIA2A5VNEIDIQ1M5WUI2"
    aws.secret_access_key = "1zUCLzJCeek5IzgDoFZSL2cVW1vsa7jA2R3JZFq"
    aws.session_token = "FQoGZXIVYZdzEMn///////////wEaDNTJ1A+ZC2bIauE1BLLGO2UbL1mLyuFBUJrP+CQp7yD0rohEyUAJUJwg/72ydpHhgrAJRcmNBmO++6kiEqDdYUGVOVlaJ4mQHcvKKJ36o0+hjyWY9A4hXdcK9meTIRfj09jFKBmMEdtLRKhOggbixqhCSR6CcQurs7Ya1WB8az+Nt6isYowWtAC0mcpX2zhrNaVGLSggBfAqycqI3kela3/Ooii"
    aws.keypair_name = "testkeys"
    aws.ami = "ami-07d0cf3af28718ef8"
    security_groups = "default"
    override.ssh.username = "ubuntu"
    aws.instance_type="t2.micro"
    override.ssh.private_key_path = ".:/testkeys.pem"
  end
end

Already at oldest change
Generate a new keypair (our vagrant file will use this to communicate with the machine)
Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

- 0 Running Instances
- 0 Dedicated Hosts
- 0 Volumes
- 1 Key Pairs
- 0 Placement Groups
- 0 Elastic IPs
- 0 Snapshots
- 1 Security Groups

Learn more about the latest in AWS Compute from AWS re:Invent by viewing the

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US East (N. Virginia) region

Service Health

Service Status:

- US East (N. Virginia):
  - No events
You do not have any Key Pairs. Click the "Create Key Pair" button.
After you create it, you will be prompted to download. Make sure you download to the same directory as your vagrant file (or copy it there if you need to).
How did I get this AMI number?
Vagrant.configure("2") do |config|
  config.vm.box = "dummy"

  config.vm.provider :aws do |aws, override|
    aws.access_key_id = "ASIA2A5VNEDIQIM5WUI2"
    aws.secret_access_key = "1zUCLzJCfek5IzgDoFZSL2cVWVs7a7jA2R3JZFq"
    aws.session_token = "FQoGZXivYXdzEMn///w==/wEaDNTJ1A+ZC2bIauE1BLG02UbL1mLyuFBuJrP+CQp7yD0rohEyUAJUJwg/72ydpHhgraJRcmNBmO++6kiEqDdYUgUOV1aJ4mQHcvKKJ36oO+hjyWY9A4hXdcK9meTIRfjO9jFKBmMEdtLRKhooggpoxqhCSR6CcQurs7YalWB8az+Nt6isYowWtAC0mcpX2zhnWaVGLSggBfAqycqI3kela3/Ooii"
    aws.keypair_name = "testkeys"

    aws.ami = "ami-07d0cf3af28718ef8"
    security_groups = "default"
    override.ssh.username = "ubuntu"
    aws.instance_type="t2.micro"
    override.ssh.private_key_path = ".//testkeys.pem"
  end
end

Click on launch instance.
Browse to instance you are interested in. Should see AMI number there.
Probably need to create a default security group to allow ssh in (or at least name the one that was created)
AWS Management Console

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

- 0 Running Instances
- 0 Dedicated Hosts
- 0 Elastic IPs
- 0 Snapshots
- 1 Key Pairs
- 1 Security Groups
- 0 Volumes

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Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US East (N. Virginia) region

Migrate a Machine

Use CloudEndure Migration to automate large-scale machine migration and cloud-based infrastructure

Get started with CloudEndure

Service Health

Scheduled Events

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroups:

testkeys.pem

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#SecurityGroups:
Select a security group above
Add ssh if not seen.
vagrant plugin install vagrant

Installing the 'vagrant-aws' plugin. This can take a few minutes...
joe@CIT-SCC113-1143:~/aws2019/ubuntu$ vagrant up --provider aws
joe@csc113-1143:~/aws2019/ubuntu$ vagrant up --provider aws
Bringing machine 'default' up with 'aws' provider...
  default: Warning! The AWS provider doesn't support any of the Va
  default: high-level network configurations (`config.vm.network`)
  default: will be silently ignored.
  default: Launching an instance with the following settings...
  default:  -- Type: t2.micro
  default:  -- AMI: ami-07d0cf3af28718ef8
  default:  -- Region: us-east-1
  default:  -- Keypair: testkeys
  default:  -- Block Device Mapping: []
  default:  -- Terminate On Shutdown: false
  default:  -- Monitoring: false
  default:  -- EBS optimized: false
  default:  -- Source Destination check: false
  default:  -- Assigning a public IP address in a VPC: false
  default:  -- VPC tenancy specification: default
  default: Waiting for instance to become "ready"...
Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US East (N. Virginia) region

Migrate a Machine

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Get started with CloudEndure

Service Health

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:
joe@CIT-SCC113-1143:~/aws2019/ubuntu$ vagrant up --provider aws
Bringing machine 'default' up with 'aws' provider...
  => default: Warning! The AWS provider doesn't support any of the Va
  => default: high-level network configurations (`config.vm.network`)
  => default: will be silently ignored.
  => default: Launching an instance with the following settings...
  => default:   -- Type: t2.micro
  => default:   -- AMI: ami-07d0cf3af28718ef8
  => default:   -- Region: us-east-1
  => default:   -- Keypair: testkeys
  => default:   -- Block Device Mapping: []
  => default:   -- Terminate On Shutdown: false
  => default:   -- Monitoring: false
  => default:   -- EBS optimized: false
  => default:   -- Source Destination check:
  => default:   -- Assigning a public IP address in a VPC: false
  => default:   -- VPC tenancy specification: default
  => default: Waiting for instance to become "ready"...
  => default: Waiting for SSH to become available...
  => default: Machine is booted and ready for use!
  => default: Rsyncing folder: /net/144.38.192.85/mnt/localdisks/home
joe@CIT-SCC113-1143:~/aws2019/ubuntu$ vagrant ssh
Welcome to Ubuntu 18.04.2 LTS (GNU/Linux 4.15.0-1044-aws x86_64)

* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage

System information as of Wed Sep 18 01:01:09 UTC 2019

System load: 0.85
Usage of /: 13.7% of 7.69GB
Memory usage: 15%
Swap usage: 0%

0 packages can be updated.
0 updates are security updates.

```bash
ubuntu@ip-172-31-81-161:~$ echo "here on ubuntu on aws"
here on ubuntu on aws
```
joe@CIT-SCC113-1143:~/aws2019/ubuntu$ vagrant destroy
    default: Are you sure you want to destroy the 'default' VM? [y/N]
=> default: Terminating the instance...
joe@CIT-SCC113-1143:~/aws2019/ubuntu$
Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) region:

- 0 Running Instances
- 0 Elastic IPs
- 0 Dedicated Hosts
- 0 Snapshots
- 1 Volumes
- 0 Error retrieving resource
- 1 Key Pairs
- 1 Security Groups
- 0 Placement Groups

Learn more about the latest in AWS Compute from AWS re:Invent by viewing the [Amazon EC2 Dashboard](https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Home).

Create Instance

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Launch Instance

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Migrate a Machine

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Service Health

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Inst...