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
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 = "ASIA2A5VNEDIQIM5WUI2"
    aws.secret_access_key = "1zUCLzJCfek5IzgDoFZSL2cVW1vsa7jA2R3JZFq"
    aws.session_token = "FQoGZ7ivYXdzEMn//////////////wEaDNTJ1A+ZC2bIauE1BLLG02Ubl1mLyuFBuJrP+CQp7yD0rohEyUAJUJwg/72ydpHhraJRCmNBmO++6kiEqDdYUgUOVLaj4mQHcvKKJ36o0+hjyWY9A4hXdcK9meTIRfjO9jFKBmMEdtLRKhoOggbixqhCSR6CcQurs7Ya1WB8az+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

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
- Error retrieving resource
- 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):

Scheduled Event

US East (N. Virginia):
No events
You do not have any Key Pairs.

Click the "Create Key Pair" button.

Select a key pair.
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 = "1zUCLzJCfek5IzgDoFZSL2cVW1vsa7jA2R3JZFq"
    aws.session_token = "FQoGZXivYXdzEMn//wEAoDNTJ1A+ZC2bIauE1BL/LG02UbL1mLyFBuJrP+CQp7yD0rohEyUAJUJwg/72ydpHhgraJRCmNBmO++6kiEqDdYugU0V1aJ4mQHcvKKJ36o0+hjWY9A4hXdcK9meTIRfj09jFKBmMEdtLRKhoOggbixqhCSR6CcQurs7Ya1WB8az+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
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)
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Migrate a Machine

Use CloudEndure Migration to automate large-scale migrations and cloud-based infrast

Get started with CloudE

Service Health

Scheduled Events

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

<table>
<thead>
<tr>
<th>Name</th>
<th>Group ID</th>
<th>Group Name</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>sg-0ed1b654</td>
<td>default</td>
</tr>
</tbody>
</table>

**Security Groups**

- Elastic IPs
- Placement Groups
- Key Pairs
- Network Interfaces

**NETWORK & SECURITY**

- Security Groups

**ELASTIC BLOCK STORE**

- Volumes
- Snapshots
- Lifecycle Manager

**IMAGES**

- AMIs
- Bundle Tasks

**LOAD BALANCING**

- Load Balancers
- Target Groups

**AUTO SCALING**

**Feedback English (US)**

- testkeys.pem
- https://console.aws.amazon.com
Create Security Group

Filter by tags and attributes or search by keyword

Group name: default
Group ID: sg-0ed1b654

Description
Inbound
Outbound
Tags
Add ssh if not seen.
joe@CIT-SCC113-1143:/aws2019/ubuntu$ 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@CIT-SCC113-1143:~$ 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'...
EC2 Dashboard

Events
Tags
Reports
Limits

INSTANCES
Instances
Launch Templates
Spot Requests
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

IMAGES
AMIs
Bundle Tasks

ELASTIC BLOCK STORE

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Migrate a Machine

Use CloudEndure Migrate to automate large-scale migration and cloud-based infrastructure.

Get started with CloudEndure

Service Health

https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#Instances:
joe@CIT-SCC113-1143:$ 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
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  ==> 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:$ vagrant ssh
===> 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/localedisks/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  Processes: 91
  Usage of /:  13.7% of 7.69GB  Users logged in: 0
  Memory usage: 15%  IP address for eth0: 172.31.81.161
  Swap usage: 0%

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

ubuntu@ip-172-31-81-161:~$ echo "here on ubuntu on aws"
here on ubuntu on aws

ubuntu@ip-172-31-81-161:~$
joe@CIT-SCC113-1143:~/aws2019/ubuntu$ vagrant destroy
  default: Are you sure you want to destroy the 'default' VM? [y/N] y
  => default: Terminating the instance...
joe@CIT-SCC113-1143:~/aws2019/ubuntu$
EC2 Dashboard
- Events
- Tags
- Reports
- Limits

Instances
- Launch Templates
- Spot Requests
- Reserved Instances
- Dedicated Hosts
- Scheduled Instances
- Capacity Reservations

Images
- AMIs
- Bundle Tasks

Elastic Block Store

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Scheduled Event

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