Vagrant with aws

Begin by logging into your aws educate account:

Welcome to AWS Educate Classroom Account

Use your AWS Educate Classroom Account to access to a wide variety of AWS Services and start building! Click on the AWS Console button to sign in and get started.

- What regions can I use with a Classroom Account?

- Are Service Linked Roles supported?

- I can’t start any resources. What happened?

- Can I create users within my Classroom Account for others to access?

- Can I create my own IAM policy within Starter Account or Classroom?

- How can I use IAM roles within AWS services?

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 = "ASIA2A5VNEDIQIM5WUI2"
    aws.secret_access_key = "1zUCLzJCfeke5IzgDoFZSL2cVW1vsa7jA2R3JZFq
    aws.session_token = "FQoGZ%4vYXdzEMn/://////\wEaDNTJ1A+ZC2bIauE1BLLG02UbL1mLyuFBuJrP+CQp7yD0rohEyUAJUJwg/72ydpHhgraJRcmNBmO++6kiEqD
dYUgUOV1aJ4mQHcvKKJ36o0+hjywY9A4hXdcK9meTIRfj09jFKBmMEdtLRKhOggbixqhCSR6CcQurs7Ya1WB8az+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)
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):

Migrate a Machine

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

Get started with CloudEndure

Scheduled Events

US East (N. Virginia):

No events
Scheduled Instances
Capacity Reservations

Images
AMIs
Bundle Tasks

Elastic Block Store
Volumes
Snapshots
Lifecycle Manager

Network & Security
Security Groups
Elastic IPs
Placement Groups

Key Pairs
Network Interfaces

Load Balancing
Load Balancers
Target Groups

Auto Scaling
Launch Configurations

Services
Resource Groups

Create Key Pair
Import Key Pair
Delete

Filter by attributes or search by keyword

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 = "FQoGZiYXdzEMn//////////wEaDNTJ1A+ZC2bIauE1BLG02UbL1mLyuFBuJrP+CQp7yD0rohEyUAJUJwg/72ydphgраJRcmNBmO++6kIeEqDyUgU0V1aJ4mQHcvKKJ36o0+hyhY9A4hXdcK9meTIRfjO9jFKBmMEdtLRKh0ggbixqhCSR6CcQurs7YalWB8az+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)
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

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Service Health

Scheduled Event

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

testkeys.pem
https://console.aws.amazon.com/
Select a security group above
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:~/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"...
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
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-07d0cf3af28781ef8
>>> 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
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
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
```

```bash
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]
  ==> 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

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Scheduled Events

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