

Provisioning EC2 Virtual Machines

In this workshop your goal is to write Terraform code to provision an AWS EC2 virtual machine.

AWS Console

- Open AWS Academy



aws ALLFv1-18470

Home
Modules
Discussions

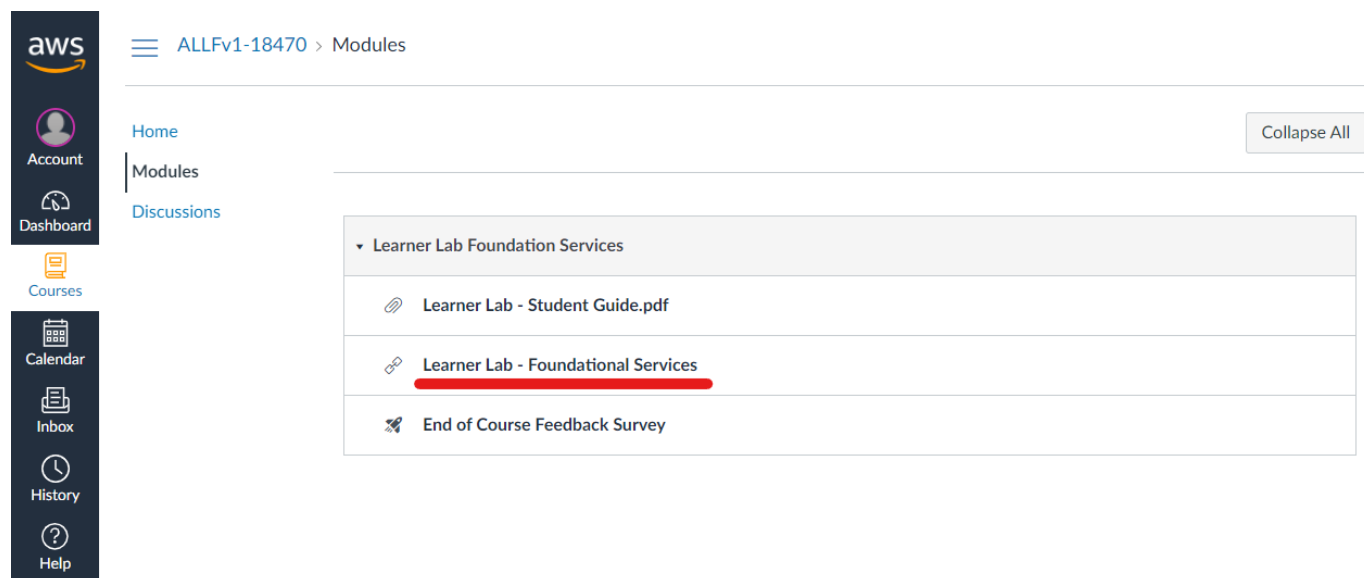
AWS Academy Learner Lab - Foundation Services [18470]

View Course Stream
View Course Calendar
View Course Notifications

To Do
Nothing for now

AWS Academy Learner Lab - Foundation Services provides a long-running sandbox environment for ad hoc exploration of AWS services. Within this class, students will have access to **a restricted set of AWS services**. Not all AWS documentation walk-through or sample labs that operate in an AWS Production account will work in the sandbox environment. You will retain access to the AWS resources set up in this environment for the duration of this course. We limit your budget (\$100), so you should exercise caution to prevent charges that will deplete your budget too quickly. If you exceed your budget, you will lose access to your environment and lose all of your work.

- Open the AWS Console in your course











aws ALLFv1-18470 > Modules

Home
Modules
Discussions

Collapse All

▼ Learner Lab Foundation Services

- Learner Lab - Student Guide.pdf
- Learner Lab - Foundational Services**
- End of Course Feedback Survey



ALLFv1-1... > Modules > Learner La...
> Learner Lab - Foundational Services

Home
Modules
Discussions

AWS ●

▶ Start Lab

■ End Lab

📄 AWS Details

📖 Readme

↺ Reset

✕






```
ddd_v1_w_HZ5_1167374@runweb53227:~$
```

EN-US ▾


Learner Lab - Foundational Level

[Environment Overview](#)
[Environment Navigation](#)
[Access the AWS Management Console](#)
[Region restriction](#)
[Service usage and other restrictions](#)


- Use your credentials for Terraform
 - aws_access_key_id
 - aws_secret_access_key
 - aws_session_token

AWS ● 03:59  Start Lab  End Lab  AWS Details  Readme  Reset ✕

Used \$0 of \$100




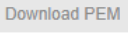
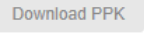
Cloud Access

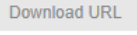
AWS CLI: 

Cloud Labs
Remaining session time: 03:58:39(239 minutes)
Session started at: 2022-04-12T06:33:21-0700
Session to end at: 2022-04-12T10:33:35-0700

Accumulated lab time: 00:01:35 (2 minutes)

No running instance

SSH key   

AWS SSO 

AWS

03:59

Start Lab

End Lab

AWS Details

Readme

Reset

✕

Used \$0 of \$100



Cloud Access

Close

AWS CLI:

Copy and paste the following into ~/.aws/credentials

[default]

aws_access_key_id=A

aws_secret_access_key=d

avzgt

aws_session_token=

Cloud Labs

Remaining session time: 03:58:39(239 minutes)

Session started at: 2022-04-12T06:33:21-0700

Session to end at: 2022-04-12T10:33:35-0700

Accumulated lab time: 00:01:35 (2 minutes)

No running instance

SSH key

Show

Download PEM

Download PPK

AWS SSO

Download URL

Terraform

- Use the AWS provider
 - region: us-east-1
 - your AWS credentials
- Use the default VPC
- Create a security group
 - ingress: TCP port 80
 - egress: allow everything
- Create an AWS EC2 instance
 - ami: Linux Ubuntu image
 - instance type: t2 micro
 - associate public ip address: true
 - user data: Start an Apache web server (code below)
- Output the public DNS address of the instance
 - check if the instance is reachable

Apache web server code:

```
#!/bin/bash
sudo apt-get update
sudo apt-get install -y apache2
sudo systemctl start apache2
sudo systemctl enable apache2
echo "<h1>Hello World</h1>" | sudo tee /var/www/html/index.html
```

Hint: Use the video linked in the self study section as a guide. The video guide uses Pulumi, but you can easily translate the code to Terraform.

Submission

Use your .tf file(s) for the submission. **Each instruction has to be commented in your own words** (what is it for, what does it do). Do not copy the Terraform documentation. The final submission in Terraform Workshop 3 will include all files from the previous Terraform workshops.

Last modified: Tuesday, 12 April 2022, 3:37 PM

?