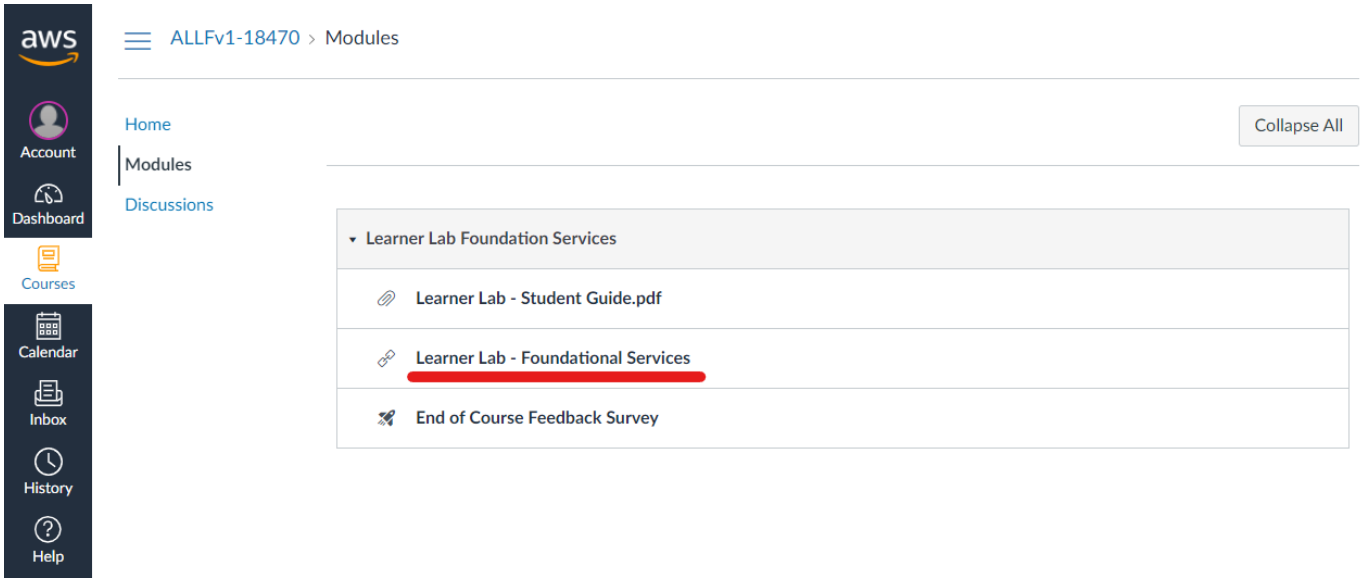
Provisioning EC2 Virtual Machines

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

AWS Console

- Open AWS Academy

- Open the AWS Console in your course



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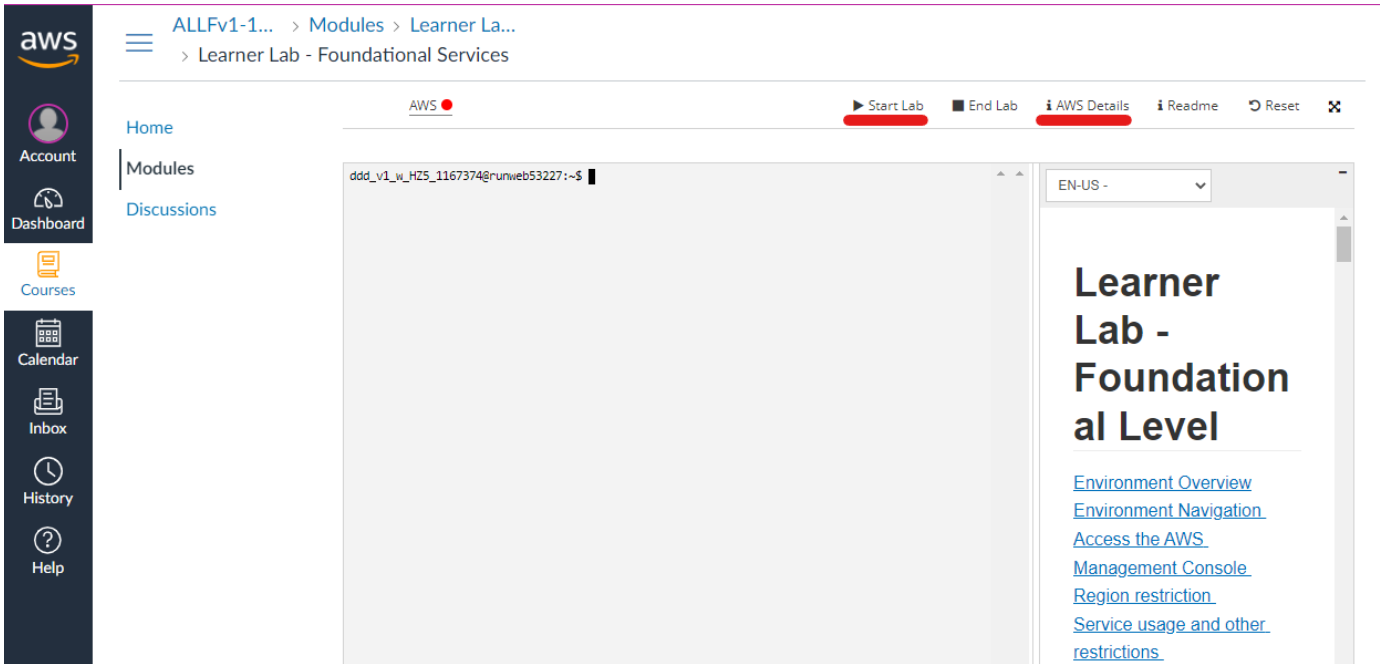
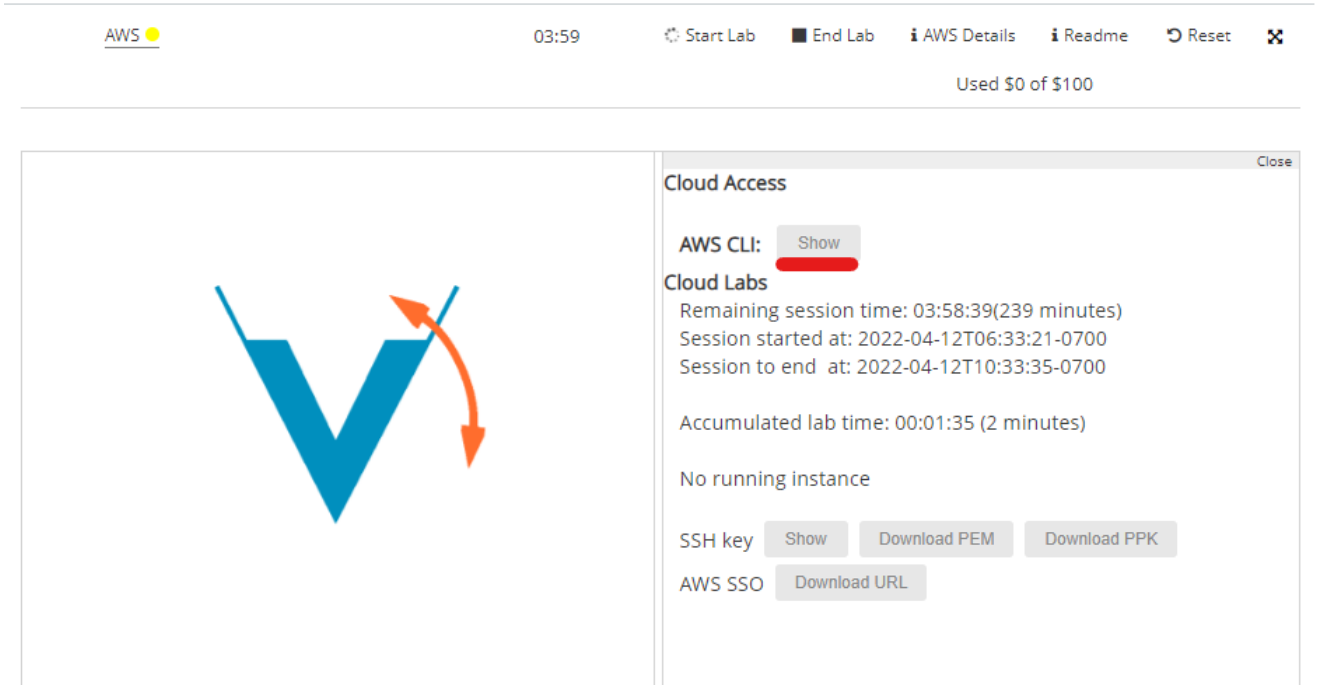


- Use your credentials for Terraform
  - aws_access_key_id
  - aws_secret_access_key
  - aws_session_token



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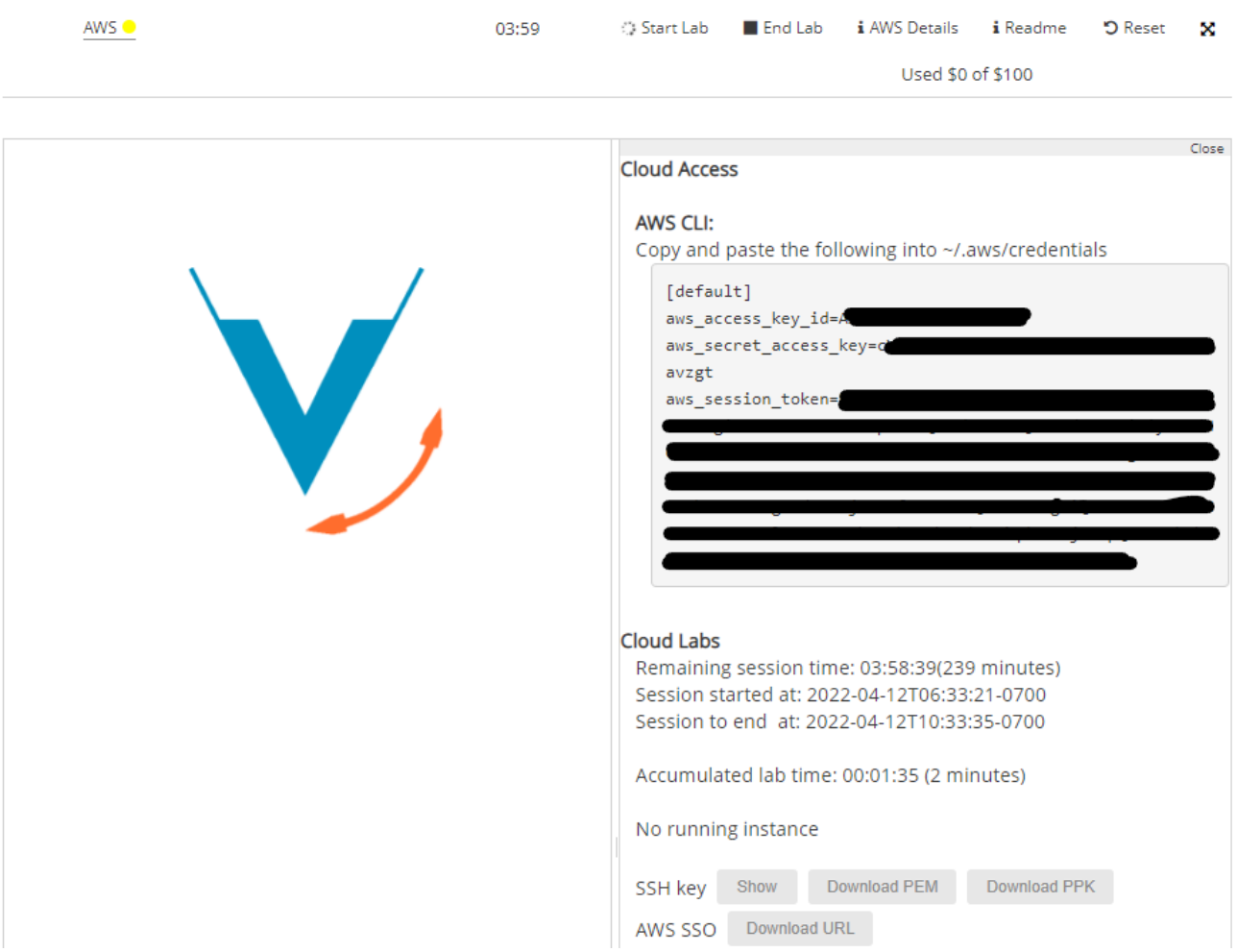

Terraform

- 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

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