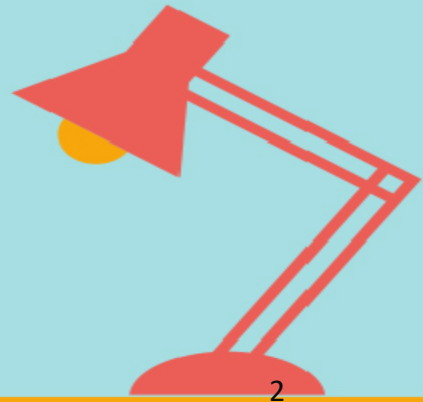
2022-Spring
Advanced Computer Programming

CSIE, Asia Univ.

Outline

- Course regulations
- Course schedule
- Course material
- Course tool



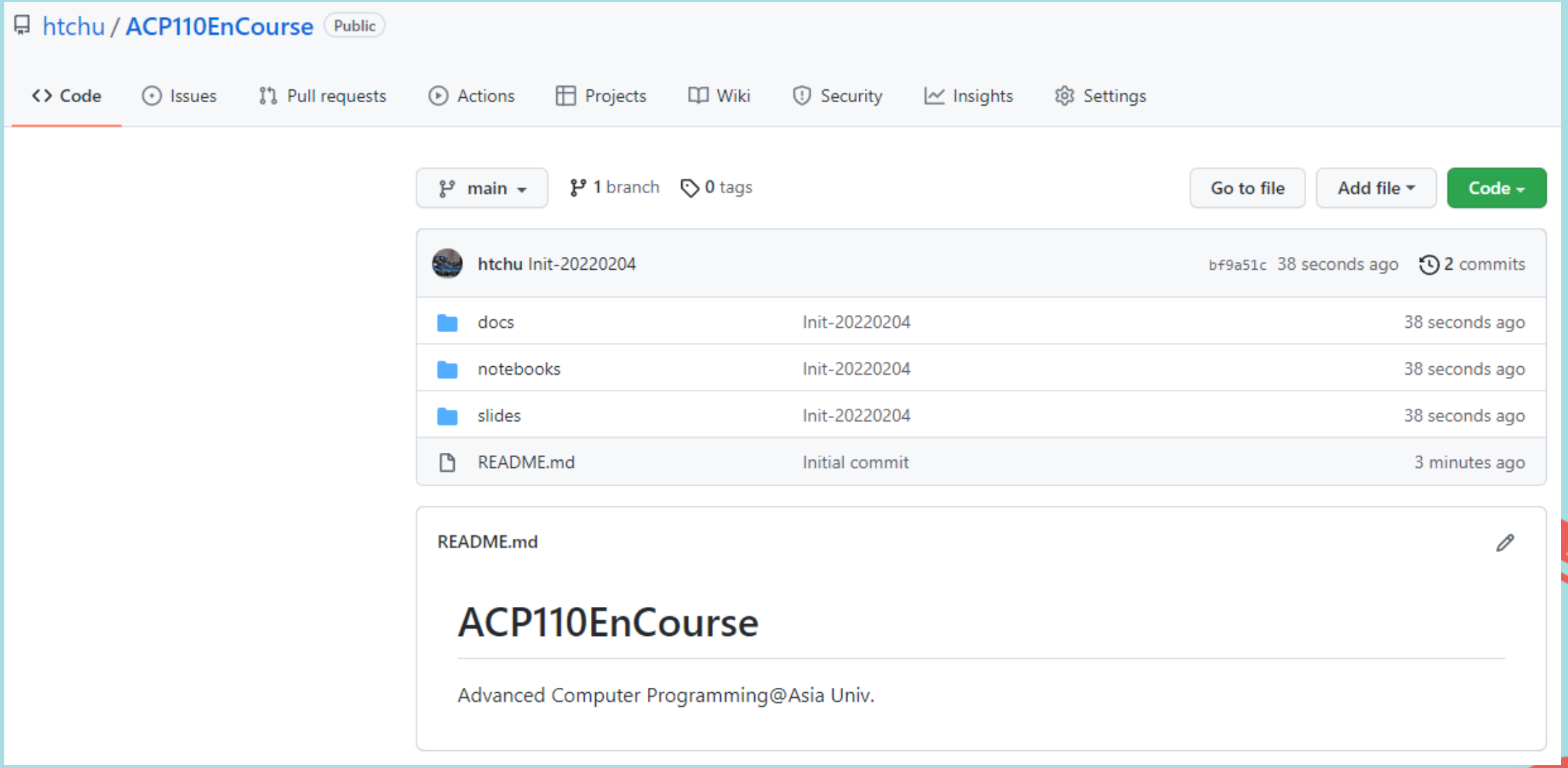
Course regulations

- The midterm is for individual grades, and the final is for group grades.
- AWS license can add points: CCP, SAA, SDA, etc.
- Midterm: 2-3 PythonAnywhere assignments
- The Final: 1 AWS project with using various AWS services
- Score baseline: AWS Lambda+ AWS S3

Course schedule

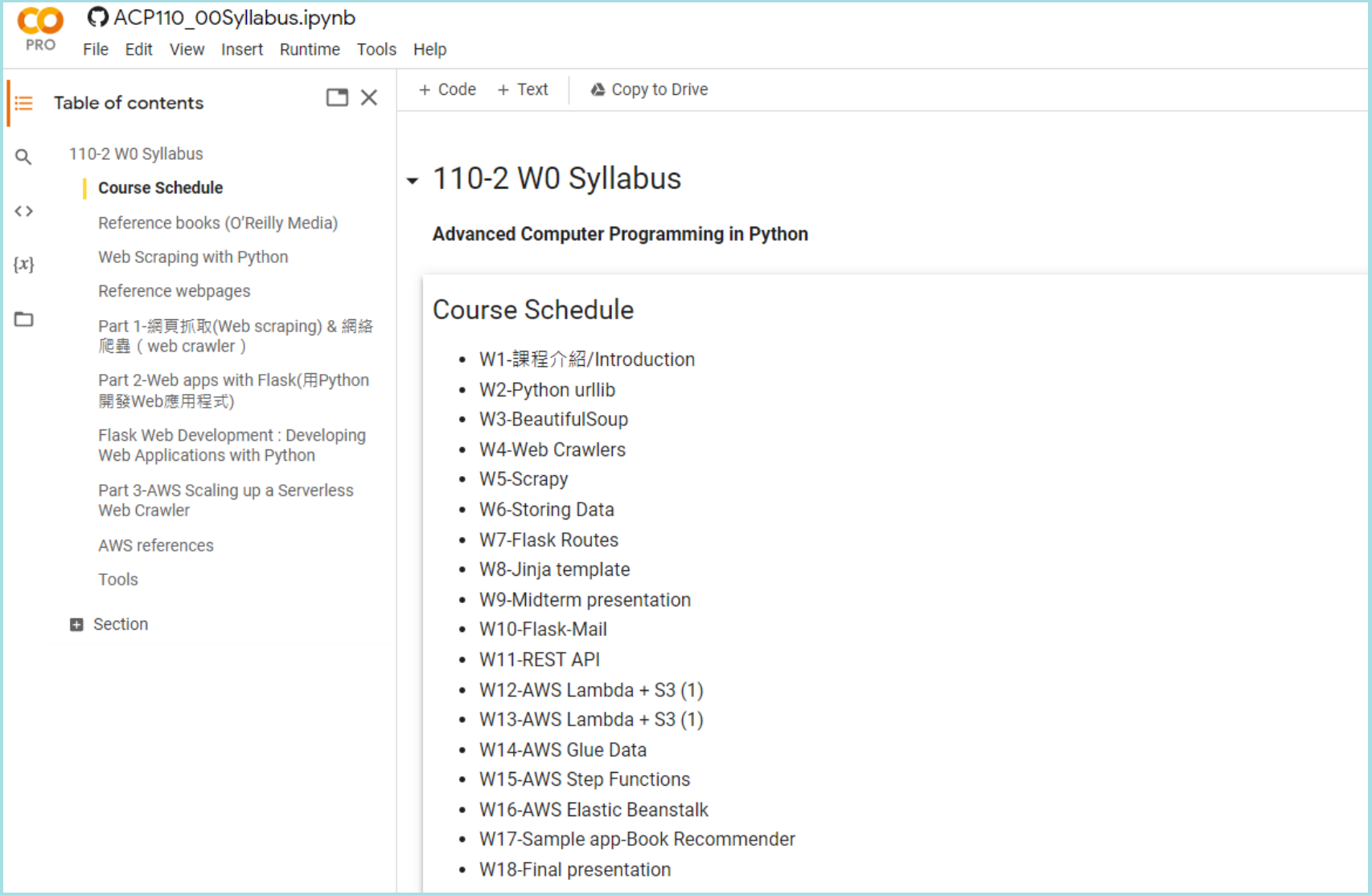
- W1-Introduction
- W2-Python urllib
- W3-BeautifulSoup
- W4-Web Crawlers
- W5-Scrapy
- W6-Storing Data
- W7-Flask Routes
- W8-Jinja template
- W9-Midterm presentation
- W10-Flask-Mail
- W11-REST API
- W12-AWS Lambda + S3 (1)
- W13-AWS Lambda + S3 (1)
- W14-AWS Glue Data
- W15-AWS Step Functions
- W16-AWS Elastic Beanstalk
- W17-Sample app-Book Recommender
- W18-Final presentation

Course Github



https://github.com/htchu/ACP110EnCourse

Colab+Github



https://colab.research.google.com/github/htchu/ACP110Course/blob/main/notebooks/ACP110_00Syllabus.ipynb

AWS Certification

Professional

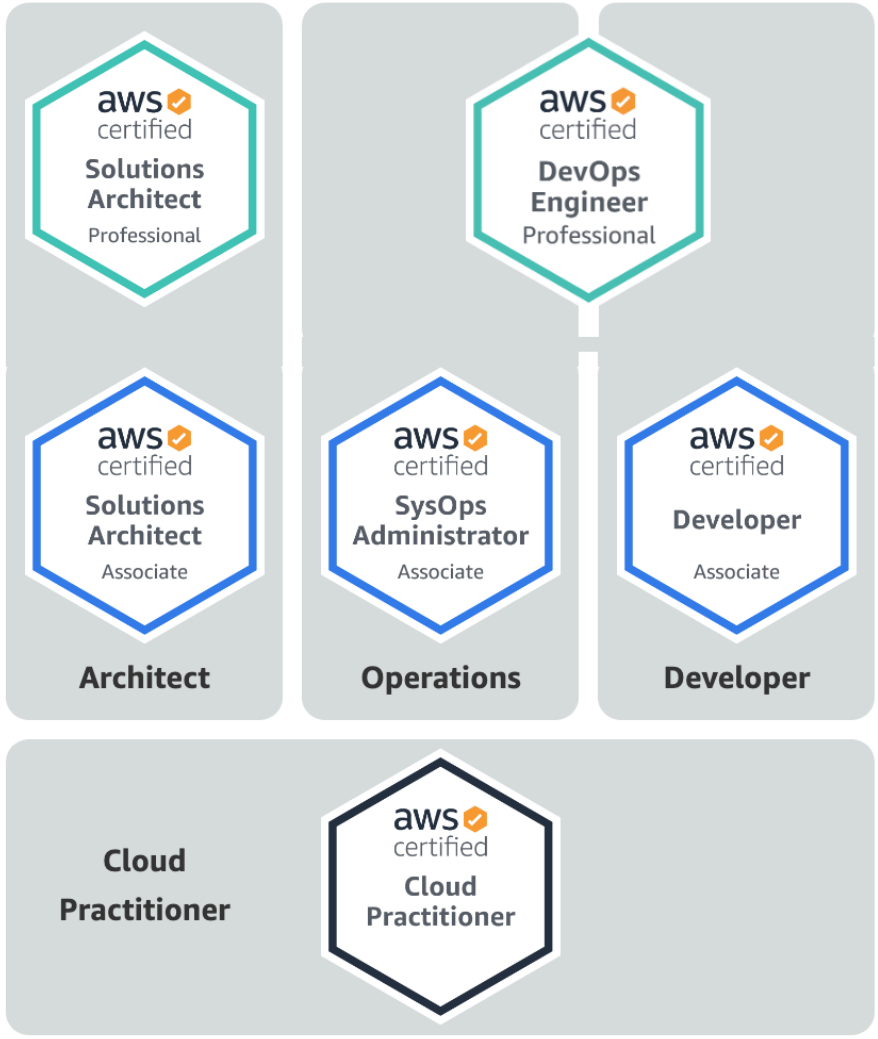
Two years of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

Associate

One year of experience solving problems and implementing solutions using the AWS Cloud

Foundational

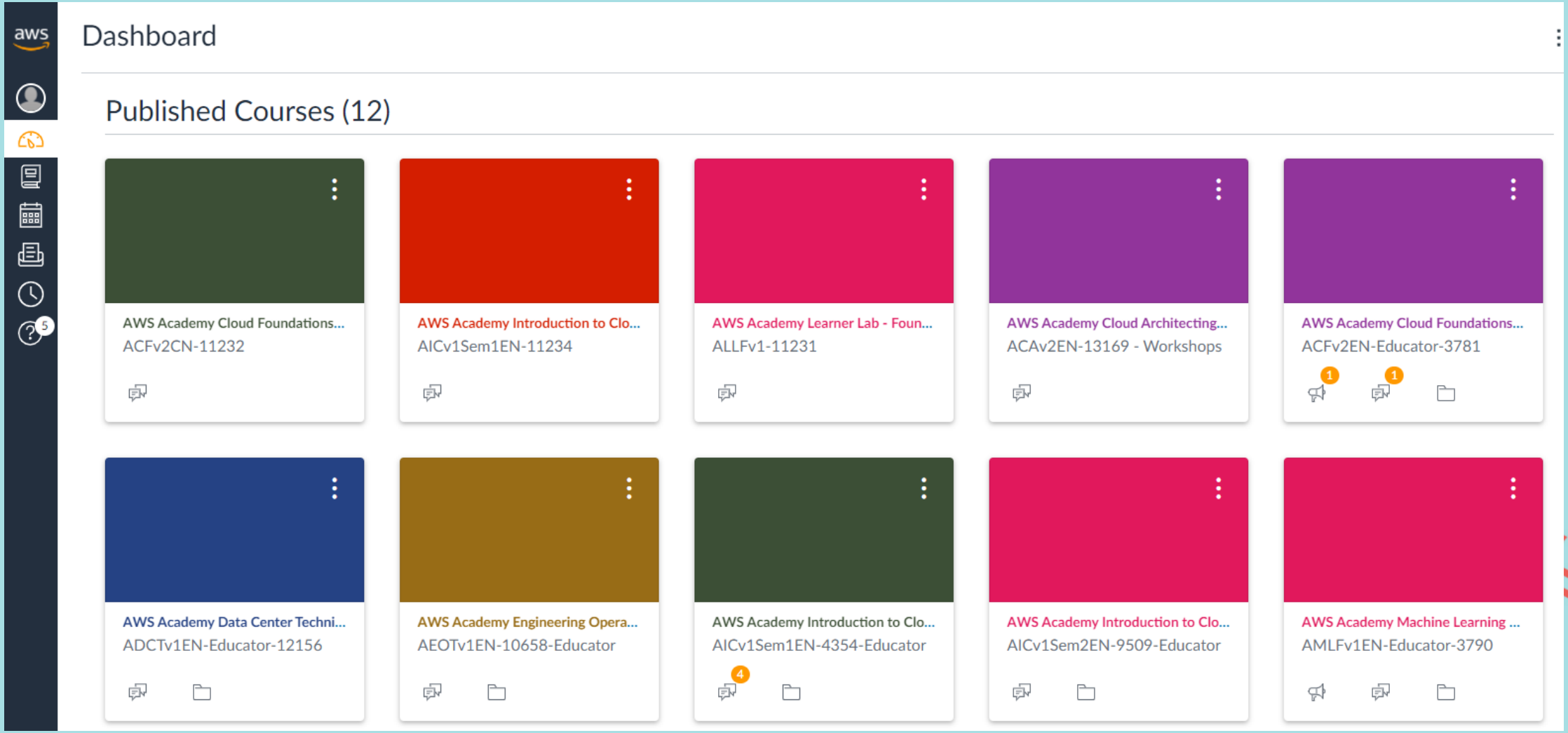
Six months of fundamental AWS Cloud and industry knowledge



Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the **exam guide**

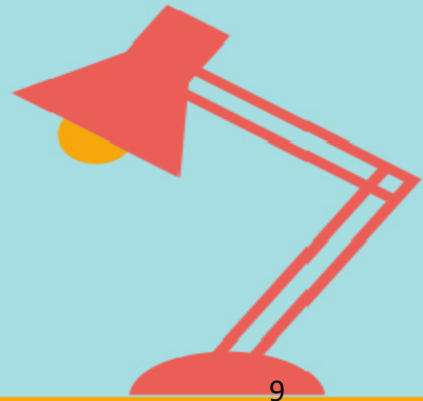
AWS Academy



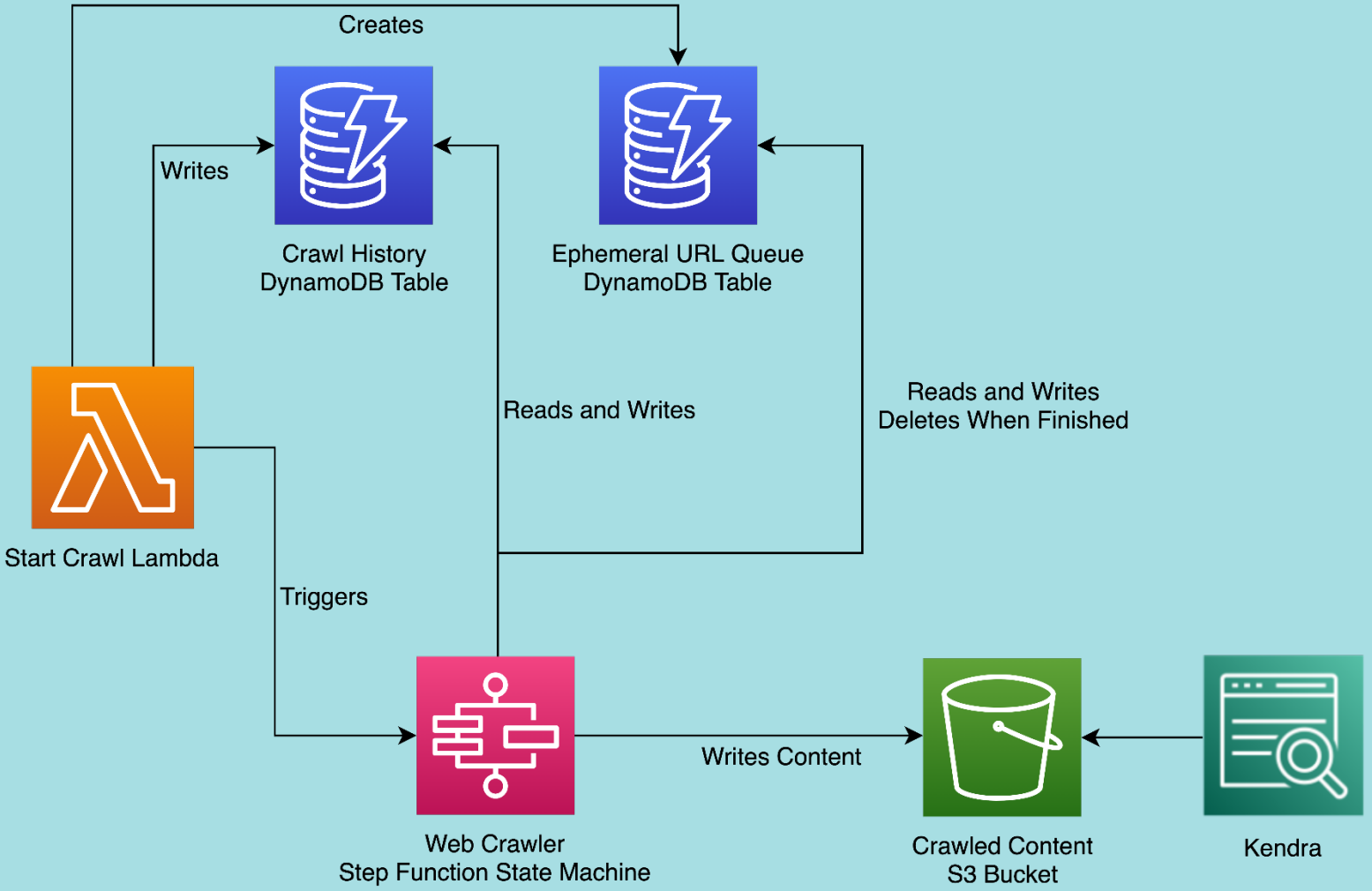
https://www.awsacademy.com/LMS_Login

Course

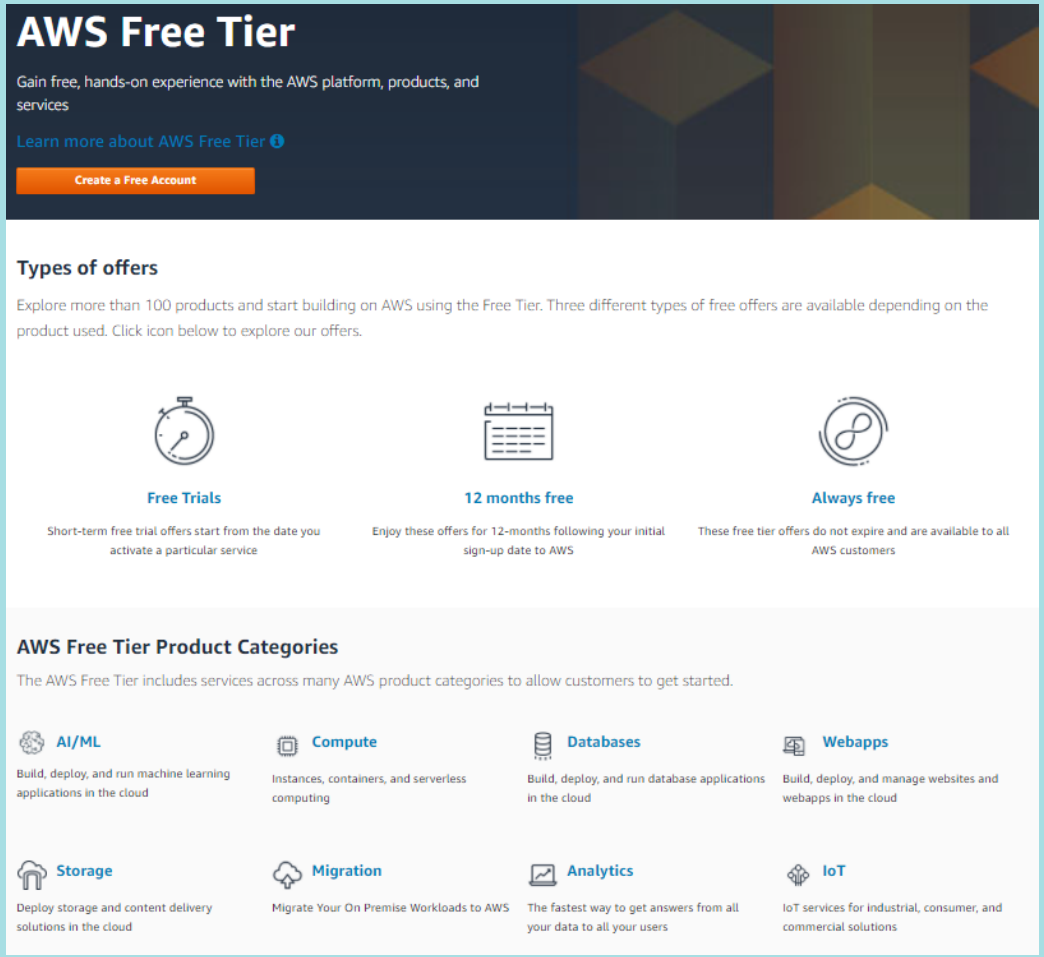
- **AWS Academy Introduction to Cloud**
  - (En) AICv1Sem1EN-11234
  - (Cn) ACFv2CN-11232
- **AWS Academy Cloud Architecting**
  - (En) ACAv2EN-13169
  - (Cn) ACAv2CN-7562
- **AWS Academy Cloud Developing**
  - (Cn) ACDv1CN-12029



AWS Serverless Application Model



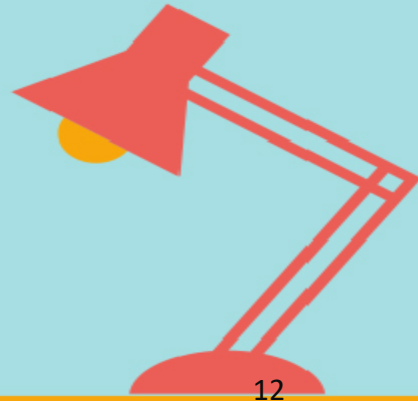
AWS Free Tier



https://aws.amazon.com/free/

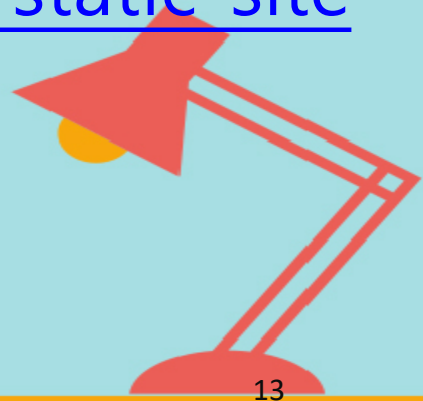
Tools

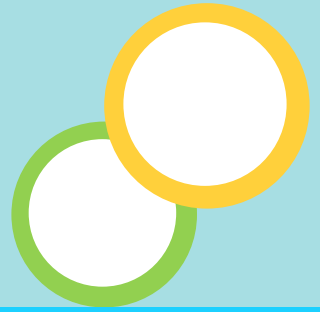
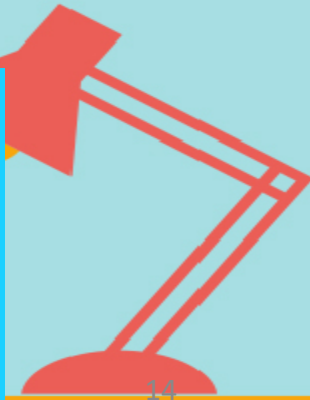
- Colab, Github, VSC
- PythonAnywhere: Host, run, and code Python in the cloud
  - https://www.pythonanywhere.com/
- AWS
  - https://aws.amazon.com/free/
- AWS academy
  - https://www.awsacademy.com/LMS_Login



Todo tasks:

- 1. 註冊/登入aws academy
  - https://www.awsacademy.com/LMS_Login
- 2. 註冊/登入PythonAnywhere
  - https://www.pythonanywhere.com/pricing/
- 3. Hosting a static site on PythonAnywhere
  - https://help.pythonanywhere.com/pages/hosting-a-static-site



Thanks!

Q&A