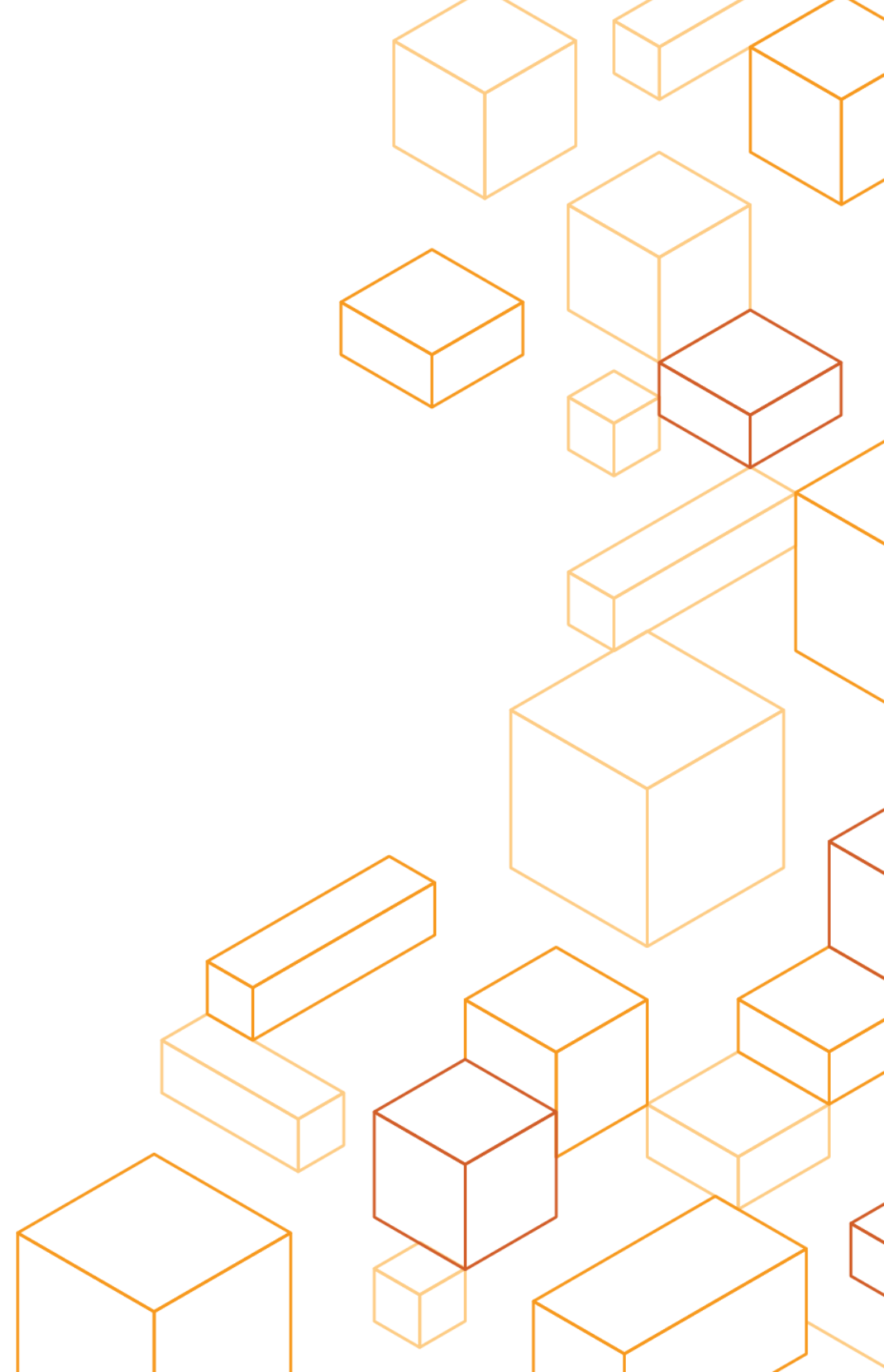




# AWS 教育資源

AWS Academy & AWS Educate

Amanda Liu  
Strategic Programs Manager  
Amazon Web Services



# AWS Education to Workforce



Working hand-in-hand with organizations, education institutions, and governments to remove barriers to education and forge new paths for individuals to develop cloud expertise, obtain AWS Certifications, and enter the technology workforce.

## AWS Academy

透過老師傳授，課程以證照為導向設計，讓學生系統性的學習雲端知識

- 對象: 高中, 大學, 研究所, 後博士生的老師。
- 主要由老師傳授。加入計畫的老師，先自行完成課程學習，再將課程內容教授給學生。
- 免費教師培訓: 定期教師培訓，協助老熟悉雲端課程並獲取證照。
- 內容: 包含 8門課程、實作手冊
- 實作環境: 提供 Learner Lab 沙盒實驗環境，學生和老師可獲得\$100美元的AWS 使用積點
- 證照: 課程對應AWS認證的50%優惠

## AWS Academy

- 對象: 學生 (受老師邀請進入Academy)
- 主要由老師傳授。加入計畫的學生，在老師開課期間，可取得課程教材與環境，在課堂和課後練習。
- 內容: 依據老師申請之課程取得教材、實作手冊與環境
- 實作環境: 提供 Learner Lab 沙盒實驗環境，學生和老師可獲得\$100美元的AWS 使用積點
- 證照: 課程對應AWS認證的50%優惠

## AWS Educate 自主雲端學習平台

- 對象: 學生
- 培養學生自主學習能力，激發學生探索不同技術方向的學系習興趣，並為就業做好準備
- 內容: 以雲端職業所涵蓋的知識與技途徑設計教材，共13門，完成每個途徑，都可獲得對應的結業證書。
- 提供15個全球發展最快的專業領域知識，擴展與雲端相的技能，完成每個勳章，都可獲得對應的結業證書。
- 實作環境: 提供7個實作環境以及操作手冊



# AWS Academy 課程規劃

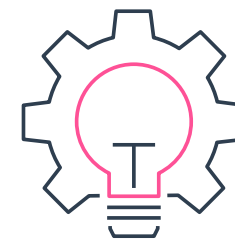
## Tier 1 (Foundation)



(K12)雲端初級基礎



雲端基礎課程



機器學習基礎課程

## Tier 2 (Associate)



雲端架構課程



雲開發課程



數據分析

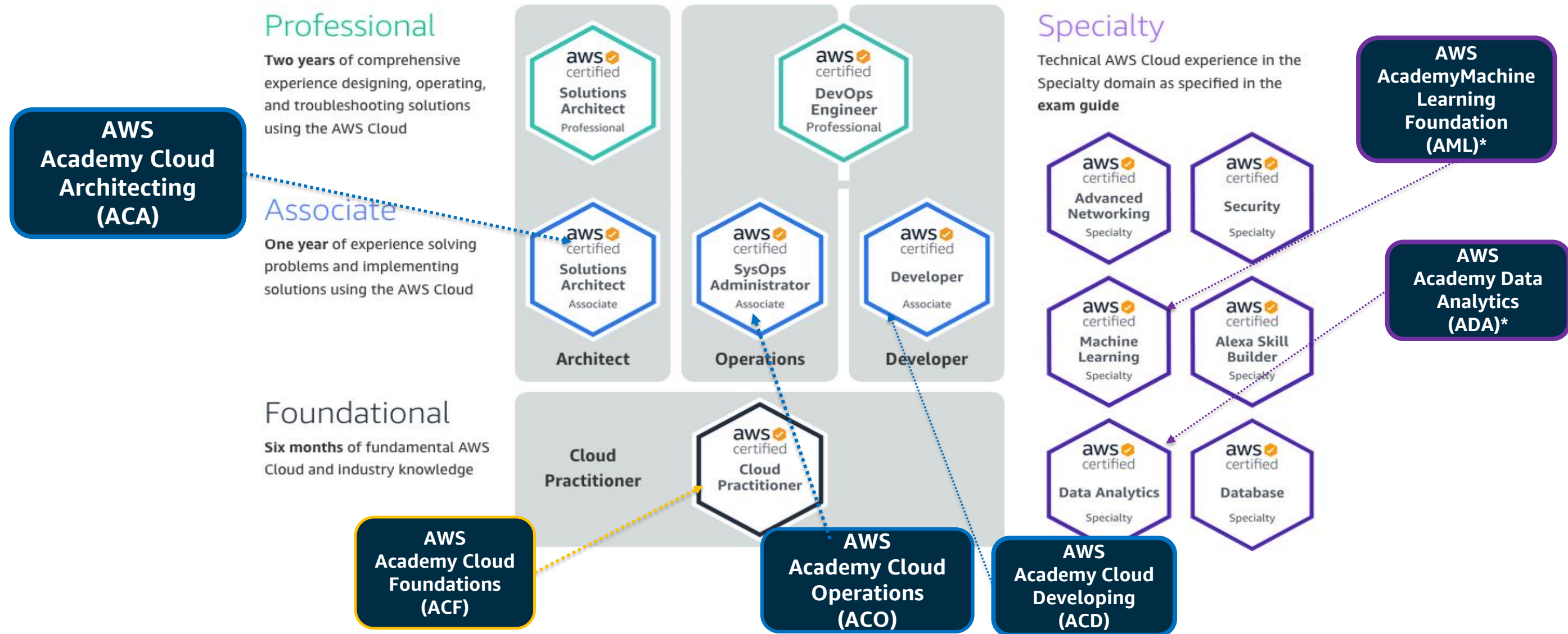


雲運維課程



機器學習  
(自然語言處理)

# AWS Academy Aligns with Certification



# Academy Portal



Amanda Liu  
ABC University, Taipei City | Professor

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**AWS Technical Program Manager**

Alan Wang

**Region**

GCR

**Email**

[waala@amazon.com](mailto:waala@amazon.com)

**Phone**

查看開課紀錄

Educators

Resources

Locations

Contact

Forums

Classes

LMS

AWS Academy Program guide

AWS Certification Voucher

AWS Marketing Material/ Legal T&C

AWS Course Outline

AWS Lab Guide

進入AWS Academy教學平台，取得教材和Lab

[Educators](#)[Resources](#)[Locations](#)[Contact](#)[Forums](#)[Classes](#)[LMS](#)

## Educator Resources

[Collapse](#)





▲ Resource Name

Type

AWS Academy Forums Code of Conduct [English]	PDF	<a href="#">Open</a>
AWS Academy Forums Code of Conduct [Japanese]	PDF	<a href="#">Open</a>
AWS Academy Forums User Guide [English]	PDF	<a href="#">Open</a>
AWS Academy Forums User Guide [Japanese]	PDF	<a href="#">Open</a>
AWS Certification	LINK	<a href="#">Open</a>
Exam Voucher - Xvoucher Branch Admin Instructions v1.0 [English]	PDF	<a href="#">Open</a>
Exam Voucher - XVoucher Branch Admin Instructions v1.0 [Japanese]	PDF	<a href="#">Open</a>
Form - Certification Voucher Request (Promotional Vouchers)	LINK	<a href="#">Open</a>
Form - Purchased Discount Voucher Account Request	LINK	<a href="#">Open</a>

## Legal Documents







Collapse

▲ Resource Name	Type	
 AWS Academy Data Privacy and Security Infrastructure Statement 2021	PDF	<a href="#">Open</a>
 Program Guide [EN] 20200804	PDF	<a href="#">Open</a>
 Terms and Conditions [EN] 20210428	PDF	<a href="#">Open</a>
 Welcome Letter	PDF	<a href="#">Open</a>

## General Course Materials

## Lab Guide

Collapse

▲ Resource Name	Type	
 AWS Academy Learner Lab - Associate Services - Chinese.docx	PDF	<a href="#">Open</a>
 AWS Academy Learner Lab - Associate Services.pdf	PDF	<a href="#">Open</a>
 AWS Academy Learner Lab - Educator Guide - Chinese.docx	PDF	<a href="#">Open</a>
 AWS Academy Learner Lab - Foundation Services - Chinese.docx	PDF	<a href="#">Open</a>
 AWS Academy Learner Lab - Foundational Services.pdf	PDF	<a href="#">Open</a>
 AWS Academy Learner Lab Educator Guide.pdf	PDF	<a href="#">Open</a>

# 課程大綱

## AWS Academy Introduction to Cloud Course Materials

Collapse

### ▲ Resource Name

Type


- |  |     |                      |
|--|-----|----------------------|
|  AWS Academy Introduction to Cloud: Semester 1 Course Outline [English] | PDF | <a href="#">Open</a> |
|  AWS Academy Introduction to Cloud: Semester 1 Course Outline [Spanish] | PDF | <a href="#">Open</a> |

## AWS Academy Cloud Architecting Course Materials

Collapse

### ▲ Resource Name

Type

- |   |     |                      |
|---|-----|----------------------|
|  AWS Academy Cloud Architecting (Version 1.0) Course Outline [English] | PDF | <a href="#">Open</a> |
|  AWS Academy Cloud Architecting (Version 2.0) Course Outline [English] | PDF | <a href="#">Open</a> |
|  AWS Academy Cloud Architecting Course Outline [Chinese]             | PDF | <a href="#">Open</a> |

## AWS Academy Cloud Developing Course Materials

Collapse

### ▲ Resource Name

Type

- |   |     |                      |
|---|-----|----------------------|
|  AWS Academy Cloud Developing Course Outline [English] | PDF | <a href="#">Open</a> |
|---|-----|----------------------|



# AWS Academy Cloud Foundations

Module	Number of Slides	Digital Training	Exercise & Lab	Knowledge Check
Course Introduction	48	18 min.		
Module 1: Cloud Concepts				30 min.
Cloud Concepts Overview	46	32 min.		10 min.
Cloud Economics	33	32 min.		10 min.
AWS Global Infrastructure Overview	18	13 min.		10 min.
Module 2: AWS Course Services				
Compute	67	45 min.		10 min.
Storage	55	40 min.		10 min.
VPC	37	25 min.	45 min.	10 min.
Database	54	36 min.	45 min.	10 min.
Balancing, Scaling, Monitoring	39	25 min.	45 min.	10 min.
Module 3: Cloud Security	91	70 min.	30 min.	10 min.
Module 4: Cloud Architecting	49	37 min.		10 min.
Module 5: Cloud Support	33	22 min.		10 min.

# 開課紀錄

## Classes

To create a new class, [go to the AWS Academy LMS](#). In your account menu, click "Create a class." If you have any questions, please [visit the AWS Academy Forums](#).

Upcoming Classes				Collapse
▲ Course Name	Class Start	Class End	Status	
AWS Academy Learner Lab - Foundation Services	9/21/2021	1/23/2022	Configured	<a href="#">View</a>

Classes In Delivery				Expand
---------------------	--	--	--	--------

Past Classes				Expand
--------------	--	--	--	--------

# Academy LMS

aws




Account




Dashboard




Courses




Calendar




Inbox




History



Help







## Dashboard




**AWS Academy Cloud Foundations...**  
ACFv2EN-306-Educator


2



**AWS Academy Learner Lab - Foun...**  
ALLv1EN-3607-Sample



**AWS Academy Learner**  
ALLv1EN-Sample



ACFv2EN-306-Educator > Modules

- Home
- Announcements
- Modules**
- Discussions
- Files
- Grades

▶ Introduction

▼ Module 1 - Cloud Concepts Overview

- Introduction Video
- Section 1 Video - Introduction to cloud computing
- Section 2 Video - Advantages of the Cloud
- Section 3 Video - Introduction to AWS



# 選取AWS Learner Lab

aws



Account

Dashboard

Courses

Calendar

Inbox




History


Help

## Dashboard


**AWS Academy Cloud Foundations...**  
ACFv2EN-306-Educator

2



**AWS Academy Learn**  ALLAv1EN-Sample > Modules

ALLAv1EN-Sample





- Home
- Modules
- Discussions

**AWS Academy Learner Lab - Foun...**  
ALLAv1EN-3607-Sample

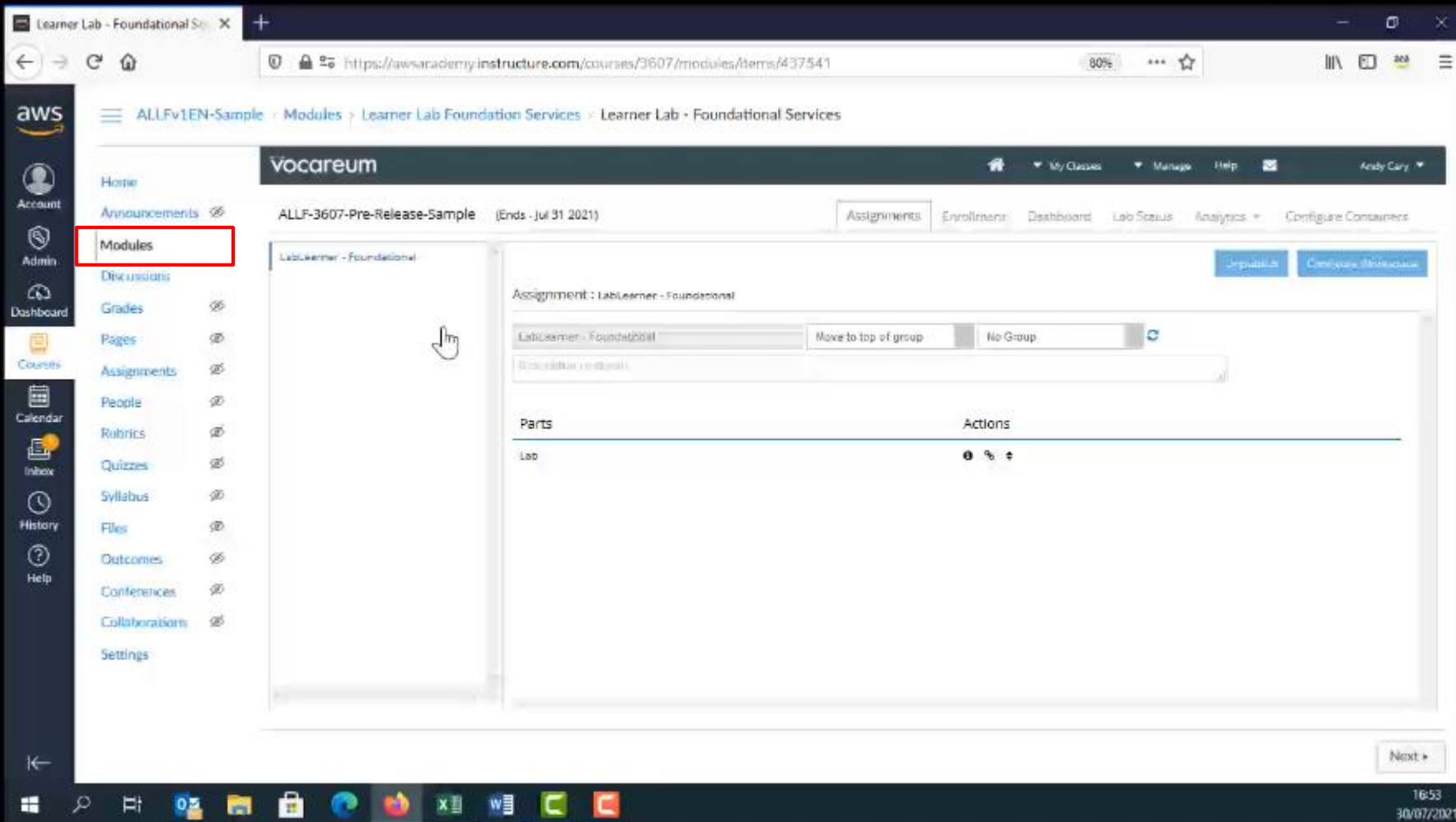
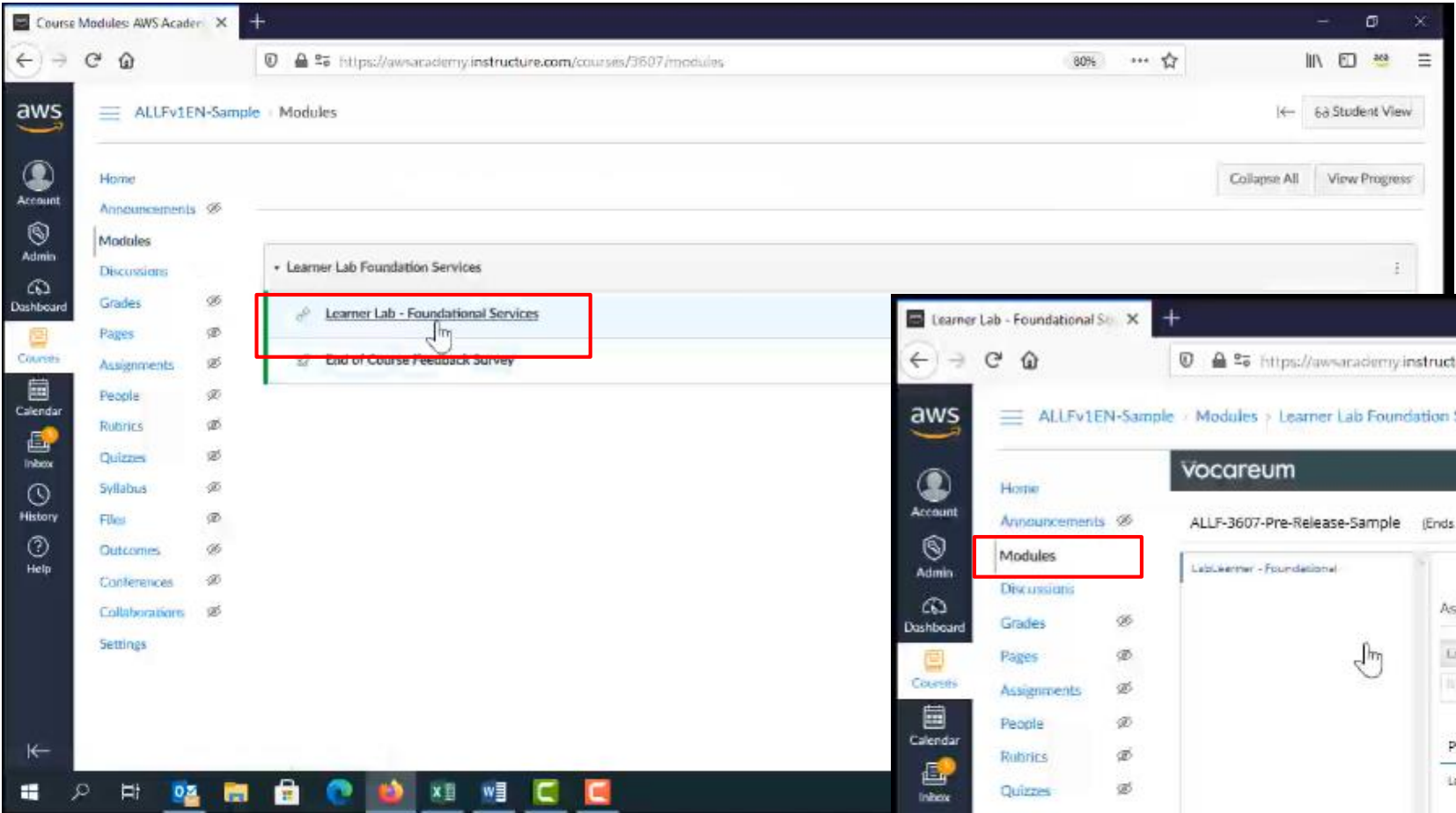


▼ Learner Lab Associate Services

-  Learner Lab - Associate Services
-  End of Course Feedback Survey



# 查看個別學生使用狀態( AWS Credit 花費)



# 查看個別學生使用狀態

The screenshot shows the Vocareum interface for a course titled 'ALLF-3607-Pre-Release-Sample'. The 'Dashboard' tab is highlighted with a red box. Below the course name, there is a 'Select Student' dropdown menu. The left sidebar contains various navigation options like Home, Announcements, Modules, Discussions, Grades, Pages, Assignments, People, Rubrics, Quizzes, Syllabus, Filer, Outcomes, Conferences, and Collaborations.

This screenshot shows a detailed view of the cost breakdown for a student. The table lists various items and their associated costs. The 'Grand total' row is highlighted in yellow.

Item Description	Cost
Request-Tier1	\$0.000115
Request	\$0.0004
USE1-PaidS3DataEventsAnalyzed	\$2.45-5
USE1-USID-AWS-Cut-Bytes	\$0.001833
Request-Tier2	\$3.8E-5
USE1-PaidEventsAnalyzed	\$0.051248
2021-7 subtotal	\$0.054658
<b>Grand total</b>	<b>\$0.054658</b>

A close-up of the 'Select Student' dropdown menu. The list includes several email addresses and names, with 'andrcary@amazon.com(Andy Cary)' selected and highlighted in blue.

A close-up of the student's profile page for 'Andy Cary'. The 'Cost' button is highlighted with a red box. The page also shows 'View', 'Activity', 'Workarea', 'AWS-Cloud-Lab', 'Stopped', 'Budget', and 'View/Edit' buttons.

點選  
“COST”



# 查看所有學生使用AWS Credit的狀態

The screenshot displays the Vocareum interface for a class named 'ALLF-3607-Pre-Release-Sample (Ends - Jul 31 2021)'. The 'Analytics' dropdown menu is open, showing options: Accounts, Lab Cost, Lab Time, Learners, and Assignments. The 'Lab Cost' option is highlighted with a red box. The background shows a table of AWS usage data for the year 2021-7.

Item Description	Cost
Requests-Tier1	\$0.000115
Request	\$0.0004
USE1-PaidS3DataEventsAnalyzed	\$2.4E-5
USE1-USW0-AWS-Out-Bytes	\$0.001833
Requests-Tier2	\$3.8E-5
USE1-PaidEventsAnalyzed	\$0.052248
2021-7 subtotal	\$0.054658
Grand total	\$0.054658

1. 點選  
“Analytics”
2. 選擇  
“Lab Cost”

# 所有的使用成本，都可匯出

The screenshot shows the Vocareum interface for a course named 'ALLF-3607-Pre-Release-Sample' (Ends - Jul 31 2021). The interface includes a navigation menu on the left and a table of usage costs. The 'Export' button is highlighted with a red box, and a hand cursor is pointing at it. The table has columns for 'Name', 'Total', and 'LabLeamer - Foundational, Lab'.

Name	Total	LabLeamer - Foundational, Lab
[Redacted]	0.1	0.1
[Redacted]	0.69	0.69
[Redacted]	91.77	91.77
[Redacted]	0.02	0.02
[Redacted]	1.35	1.35
[Redacted]	24.01	24.01
[Redacted]	0.09	0.09
[Redacted]	0	0
[Redacted]	0.06	0.06
[Redacted]	104	104

點選Export  
匯出



# 掌握或查看學生使用服務狀態

The screenshot shows the Vocareum interface for a course titled 'ALLF-3607-Pre-Release-Sample'. The 'Dashboard' tab is highlighted with a red box. Below it, a 'Select Student' dropdown menu is shown, with a list of students including 'andrcary@amazon.com(Andy Cary)' highlighted by a mouse cursor.

1. 點選  
“Dashboard”，選擇  
個別學生

2. 點選“Activity”

A close-up of the student's profile for 'Andy Cary' shows the 'Activity' button highlighted with a red box and a mouse cursor pointing to it.

# 掌握學生所有動態

ALLFv1EN-Sample > Modules > Learner Lab Foundation Services > Learner Lab - Foundational Services

The screenshot shows the Vocareum dashboard for user Andy Cary. The dashboard displays a log of lab operations for the course ALLF-3607-Pre-Release-Sample. The log includes columns for Time, Action, User, Status, and Detail. The operations are as follows:

Time	Action	User	Status	Detail
2021-08-10 06:55:39 EDT	endlab	---	success	"Region: us-east-1 Lab ID: arn:aws:cloudformation:us-east-1:832188361647:stack/c33796a4249381916309t1w832188361647/a19806b0-f5db-11eb-8fa9-0a3fc8cbcb75 Creation Time: 2021-08-05T03:55:22-0700 You may close this message box now. Lab resources are stopping ..."
2021-08-10 06:55:36 EDT	lab operation	---	success	" 832188361647 stopping lab: (id:146214610, time:81)"
2021-08-10 06:54:25 EDT	console	---	success	"Console URL 832188361647"
2021-08-10 06:54:20 EDT	startlab	---	success	"Region: us-east-1 Lab ID: arn:aws:cloudformation:us-east-1:832188361647:stack/c33796a4249381916309t1w832188361647/a19806b0-f5db-11eb-8fa9-0a3fc8cbcb75 Creation Time: 2021-08-05T03:55:22-0700  Start session at 2021-08-10T03:54:18-0700 Remaining session time: 04:00:00(240 minutes) "
2021-08-10 06:54:15 EDT	lab operation	---	success	" 832188361647 start lab (id:146214610)"

Navigation buttons: Home, My Classes, Manage, Help, Andy Cary. Course navigation: ALLF-3607-Pre-Release-Sample (Ends - Dec 31 2025), Assignments, Enrollment, Dashboard, Lab Status, Analytics, Configure Containers. A 'Next' button is located at the bottom right of the dashboard.

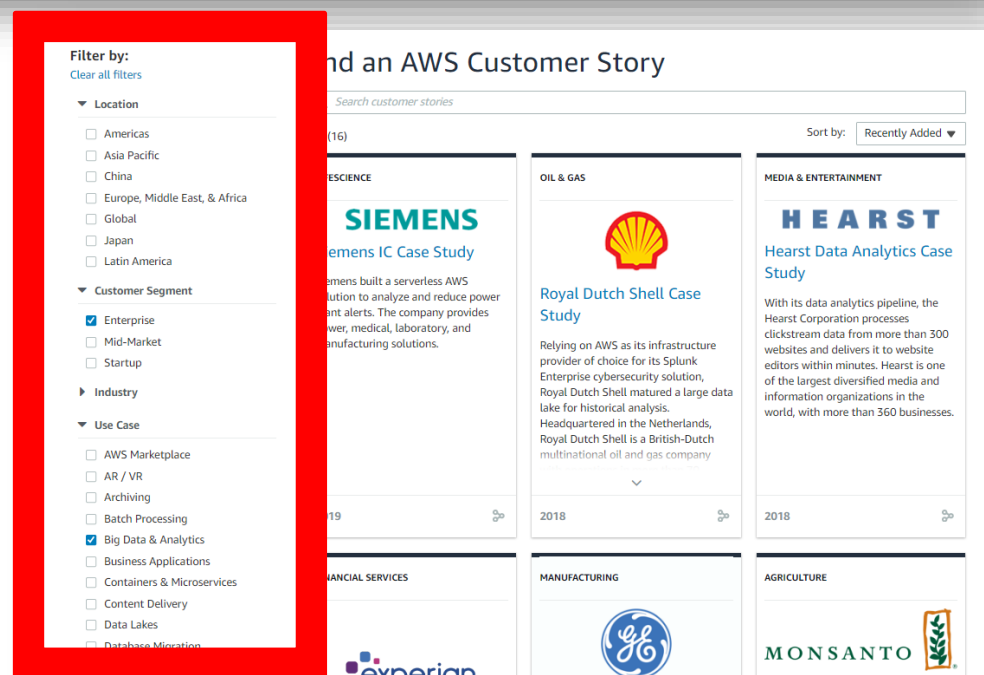


# Best Practices

## 透過AWS個案進行教學(AWS客戶成功案例)



勾選關鍵字  
選擇case。



moving to the AWS cloud

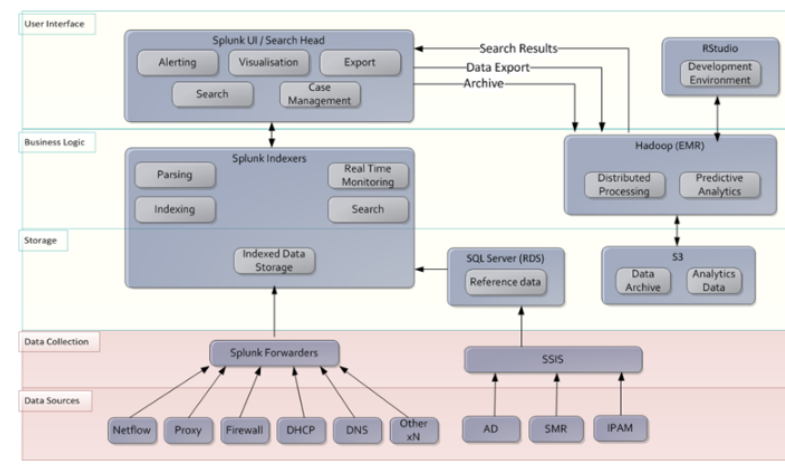
Shell decided to expand its SIEM solution by adopting Splunk Enterprise and Splunk Enterprise Security, a platform the company could use to rapidly search and analyze historical machine and log data from its various systems. It chose to host Splunk on Amazon Web Services (AWS) because AWS offered the scalability and flexibility it needed to accommodate Shell's global footprint.

The company anticipated collecting several terabytes of log data per day from its various systems, and it wanted to store more data for historical analysis. "We quickly concluded that an on-premises solution would not be cost-effective, because we would need additional servers and storage on a weekly basis," says Hazenbroek.

Although it initially intended to keep its real-time SIEM solution on premises—and add Splunk on AWS for historical analysis—Shell ultimately decided to integrate the two solutions (historical and real-time) with Splunk on AWS.

"We realized that running our real-time SIEM solution on AWS would give us a more reliable and scalable solution than running it on premises, where we continued to struggle with the hardware components we needed," says Brink. "It was better to have an integrated solution that would allow us to perform real-time monitoring as well as deep-dive analysis on historical data—and to have all our data in the same system."

老師可以利用企業的案例幫助豐富課程。



Empowering Fast Analysis Using Amazon EBS

Shell relies on approximately 100 Amazon Elastic Compute Cloud (Amazon EC2) instances to run its Splunk infrastructure on AWS. "We use Amazon EC2 c4.2 instances for the Splunk forwarders, c4.8 instances for the Splunk indexers, and c4.4 instances for the Splunk search applications," says Hazenbroek.



# Thank you !

