



AWS Cloud Computing Programme



Introduction

Welcome to the ALX Cloud Computing Program, where you'll gain in-demand skills to excel in today's digital landscape. This program is tailored for individuals looking to develop their cloud computing skills.

Whether you're a seasoned IT professional or just starting out, our comprehensive learning path is designed to prepare you for success in the cloud.

This brochure is your guide to the ALX Cloud Computing Program, providing detailed information on the curriculum, features, and requirements to help you get started on your cloud journey.



Overview

The ALX Cloud Computing Program is a **6-month** program further divided into two sub-programs designed to equip you with two certifications from AWS: the Cloud Practitioner and Solutions Architect certifications.

Curriculum: Gain the knowledge and skills to design, deploy, and manage cloud applications on the Amazon Web Services (AWS) platform. The curriculum, developed and maintained by AWS, ensures that students learn the latest cloud technologies and best practices, providing them with cutting-edge skills for today's digital landscape.

Instructorship: The program will be fully delivered by the ALX-AWS Program Team.

Delivery: The course material will be delivered online via the ALX LMS platform (Savanna).



Overview

Engagement: Participate in weekly live events hosted by the program team, offering valuable guidance and support throughout your learning journey.

Time Commitment: Each learner is required to commit approximately **20 to 30 hours** every week to complete the weekly deliverables.

Assignments: Complete weekly assignments (Knowledge Checks) during the Cloud Practitioner Program and Knowledge Checks & Labs during the Solutions Architect program.

Outcome: Upon completion, you will gain a comprehensive overview of cloud computing fundamentals, covering core concepts, benefits, and deployment models. The skills acquired will be invaluable for addressing challenges in the current cloud field, enabling the development of scalable and cost-effective solutions.



Key Highlights

We have produced:

CLOUD PRACTITIONER
CERTIFIED GRADUATES

Over 2000

SOLUTIONS ARCHITECT
CERTIFIED GRADUATES

Over 1000

What makes the ALX AWS Cloud Computing Program Unique?

Peer Support

- Learners are grouped into dedicated squads — tight-knit teams that grow together through the journey.
- Each squad connects via the community platform, where members can find accountability partners, share knowledge, and run peer-led coaching sessions that reinforce key concepts and boost motivation.

ALX Team Support:

- From onboarding to the final exam, the ALX team is with you every step of the way.
- We offer structured guidance to help you navigate key milestones, resolve challenges on our platforms, and stay focused on your goals.



What makes the ALX AWS Cloud Computing Program Unique?

Alumni Volunteer Mentors Support

- One of the program's standout features is the Volunteer Mentor initiative, where AWS alumni who have successfully completed the track return to support current learners.
- They bring real-world experience, a deep understanding of the course, and the empathy of someone who's walked the same path – helping bridge the gap between learning and application.

Real-World Focus and Applied Projects

- Our curriculum is designed with the workplace in mind. Every module and milestone mimics real-world tasks, giving learners the chance to build practical skills and confidence in applying AWS tools and concepts.
- By the end of the program, learners walk away with a portfolio of projects that can be used to showcase their abilities to potential employers.



How you'll learn

Weekly Content:

Access weekly content on the ALX LMS platform [Savanna], including online video lessons, study guides (PDFs), and additional materials such as articles and videos from our ALX Community spaces.

Peer Interaction:

Engage with your peers on the ALX Community portal, where you can also seek support from our technical mentors by asking questions and more.

Interactive Learning:

Enjoy a variety of interactive content, including live video sessions and walk-throughs by our Technical Mentors.

Hands-On Experience:

Apply your learning through weekly Knowledge Checks and Labs.

AWS Management Console:

Utilize the AWS Management Console for practical learning opportunities.



Basic technical requirements

To navigate the program comfortably, please ensure you have the following:

- **Computer Literacy:** Basic computer skills, including using a web browser, operating an email account, and downloading files, are required.
- **Email Account:** You need a current email account.
- **Hardware:** Access to a computer, internet connection, and PDF reader software is required.
- **Browser:** Google Chrome is recommended for accessing the learning management system, although any popular browser should suffice.
- **Operating System:** A minimum of Windows 10 or any current MacOS is recommended. A processor speed of about 1.8 GHz with a minimum of Core i3 is also recommended.
- **Internet Speed:** A minimum internet speed of about 10 MB download and 5 MB upload is recommended.
- **RAM:** A minimum of 4 GB of RAM is recommended.



Program Tools

zoom

Zoom



Calendar

alx eHub

LMS &
Community



Circle

zendesk

LEA/Zendesk
(Program Support
Channels)

Curriculum Breakdown by Week

Cloud Practitioner Program

**Week
1**

Module 1:
Introduction
to Cloud
Computing

**Week
2**

Module 2:
Cloud
Economics
& Billing

Module 3:
AWS Global
Infrastructure
Overview

Module 4:
Cloud
Security

**Week
3**

Module 5:
Networking
and Content
Delivery

Module 6:
Compute

Module 7:
Storage

**Week
4**

CATCH UP
WEEK
(No new content
is introduced
during this week)

**Week
5**

Module 8:
Databases

Module 9:
Cloud
Architecture

Module 10:
Automatic
Scaling &
Monitoring

**Weeks
6-9**

6: CATCH UP
WEEK

7&8: EXAM
WEEKS

9: RECESS
WEEK

Curriculum Breakdown by Week

Solutions Architect Program

**Week
1**

**Module 1:
Welcome to
AWS Cloud
Architecting**

**Module 2:
Introducing
Cloud
Architecting**

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**Week
2**

**Module 3:
Securing
Access**

**Module 4:
Adding a
Storage layer
with Amazon
S3**

**Week
3**

**Module 5:
Adding a
Compute
layer using
Amazon EC2**

**Module 6:
Adding a
Database
Layer**

**Week
4**

**CATCH UP
WEEK
(No new content
is introduced
during this week)**

**Week
5**

**Module 7:
Creating a
Networking
Environment**

**Module 8:
Connecting
Networks**

**Week
6**

**Module 9:
Securing User
and
Application
Access**

**Module 10:
Implementing
Elasticity, High
Availability,
and
Monitoring**

Curriculum Breakdown by Week

Solutions Architect Program

**Week
7**

**Module 11 –
Automating
Your
Architecture**

**Module 12:
Caching
Content**

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**Week
8**

**CATCH UP
WEEK**
**(No new content
is introduced
during this week)**

**Week
9**

**Module 13:
Building
Decoupled
Architectures**

**Module 14:
Building
Microservices
and
Serverless
Architectures**

**Week
10**

**Module 15:
Data
Engineering
Patterns**

**Module 16:
Planning for
Disaster**

**Week
11**

**Module 17:
Capstone
Project**

**Module 18:
Course
Assessment**

**Module 19:
Bridging to
Certification**

**Weeks
12 – 15**

**12: CATCH UP
WEEK**

**13,14,15:
EXAM WEEKS**



Certification Process

At the conclusion of each track, you will be required to complete the certification exams after meeting the program requirements. Here's a brief overview of the process, but don't worry— the team will hold sessions to walk you through in detail what to expect during the exam period.

The AWS Cloud Computing Program includes two certification exams: one at the end of each program; Cloud Practitioner, and Solutions Architect. Eligible learners receive exam vouchers from the Program Team. These exams are administered by AWS through [Pearson VUE](#), offering the option to take them onsite or online.

During the exam period, the Program Team hosts live sessions, sharing exam tips and inviting industry experts to provide insights. These sessions also aim to address any challenges you may encounter while preparing for and taking the exams.

If you do not pass on the first attempt, the program team will provide one retake voucher. Before using the retake voucher, you will undergo a grace period. During this experience, the program team holds sessions to tackle your weak areas, ensuring you receive targeted support to succeed in your certification journey.



The Road to Certification

How to Thrive and Succeed in the Program.

Each week, you will be expected to:

- **Log into the portal and engage with your peers.**
- **Access the LMS and complete the weekly content.**
- **Submit assignments by the Sunday deadline usually at 11:59 pm GMT.**
- **Attend live expert sessions facilitated by the Technical Mentors on Tuesdays and Thursdays.**
- **Contribute in squad activities.**
- **Participate in the program Office Hours for updates and support.**