



Personal Ideas

AWS Solutions Architect

Francisco Moreno

January/2025

Agenda

fmorenod.co
©2023

Value of being certified

AWS Certification & Training
Tips and resources to fast-track your Cloud Career
Study resources

15,043 subscribers
✓ Subscribed

Top 10 Benefits of AWS Certification

5 Ways Professional Certifications Add Value
By NABE Networks | April 1, 2022

THE VALUE OF CERTIFICATION

SKILLS HAVE BECOME THE GLOBAL CURRENCY OF 21ST CENTURY ECONOMIES!
In a world where competition for jobs, pay increases, and academic success continues to increase, certification offers huge benefits because they are a credible, third-party assessment of one's skill and knowledge for a given subject.

Options

AWS Cloud Institute
The virtual cloud-skills training program that will help you one year - regardless of your technical background. Come
[Apply now](#)
Already enrolled? [log in](#)

Our free training is designed to meet a wide variety of schedules and learning goals. Each program offers something different. Read on to learn more and get started.

Amazon is committed to providing free cloud certification skills training to 25 million people around the world by 2025. Use the following free skills-based cloud skills training programs and information to get started.

AWS Skill Builder

1. AWS Cloud Practitioner
2. AWS Solutions Architect Associate
3. AWS SysOps Administrator Associate
4. AWS DevOps Engineer Professional
5. AWS Security Specialty
6. AWS Certified Solutions Architect - Professional

Paradigms to be on cloud

THE NEW STACK
PODCASTS FRAGS EVENTS NEWSLETTER
ARCHITECTURE ENGINEERING OPERATIONS

Introduction to AWS Economics

Reducing Costs and Complexity

May 2022

'Merchants of Complexity': Why 37Signals Abandoned the Cloud

Provisioning a fleet of servers in 30 minutes is magic, but it is not a requirement that comes up that often for most businesses, David MacIsaac-Harman argues.
By John and Matthew van der Horst

Leaving the Cloud: Cloud Computing Isn't For Everyone

We've run extensively in both Amazon's cloud and Google's cloud, but the savings never materialized. So we've left.

Cloud Economics Center
Understand and optimize the value of AWS
[Learn more](#)

Paradigms of using microservices

prime video | **DEVOPS.COM**

Scaling up the Prime Video audio/video monitoring service and reducing costs by 90%

The move from a distributed microservices architecture to a monolith application helped achieve higher quality, resilience, and reduce costs.

Best of 2023: Don't Build Microservices, Pursue Loose Coupling

Best of 2023: Don't Build Microservices, Pursue Loose Coupling

Rebuilding Netflix Video Processing Pipeline with Microservices

Netflix Technology Blog - Follow
Published in Netflix Technology Blog - Follow
Jan 10, 2024

Paradigms of using in the normal way

OpenTF Joins The Linux Foundation as OpenTofu!

Only May
en@CTO & Co-founder, OpenTofu Steering Committee

One staging for each engineer: introducing Layerform

@dope #infrastructurecode #terraform

Don't follow normal structures

make it | **cybernews**

68-year-old has spent 50 years at the same company as an engineer, even without a college degree—this is his one regret

Published by The Verge on Nov 14, 2022

Experiment: IT companies eager to hire self-taught pros

Published on November 15, 2022 12:25 PM

Estudiar informática ha dejado de ser el camino hacia la tierra prometida del dinero y la seguridad laboral

Published on Nov 14, 2022 12:25 PM

Think by yourself

EducationWeek

'I Literally Cried': Teachers Describe Their Transition to Science-Based Reading Instruction

By Elizabeth Hersholt - September 16, 2022

Cognitive Bias: Outcome Bias (Historian Error)

Once you look back, every decision looks like it makes sense. But when you are in the moment, it is not that clear. The 2008 bank crisis seems very easy to understand, but back in time, even the smartest Wall

Reciprocity

Reciprocity is the central core of cooperation among people that sustains economy growth and social development. The act of reciprocity is employed by Non-Governmental Organizations (NGOs) and philanthropic

THE ART OF THINKING CLEARLY
The Secrets of Perfect Decision-Making
ROLF DOBELLI



Don't follow normal structures



SUCCESS MONEY WORK LIFE VIDEO

SE

CLOSING THE GAP

29-year-old makes \$125K working in tech without a bachelor's degree—here's how

POP CULTURE AND MEDIA

Oscars 2024: Greta Gerwig was rejected by every grad school she applied to

WORK

Want a job or promotion? Here's how to brag, WI

WORK

68-year-old has spent 50 years at the same company as an engineer, even without a college degree—this is his one regret

Published Sun, Oct 1 2023•9:30 AM EDT



Jennifer Liu
@IN/JLJENNIFERLIU
@JLJENNIFERLIU

SHARE



BUSINESS
INSIDER

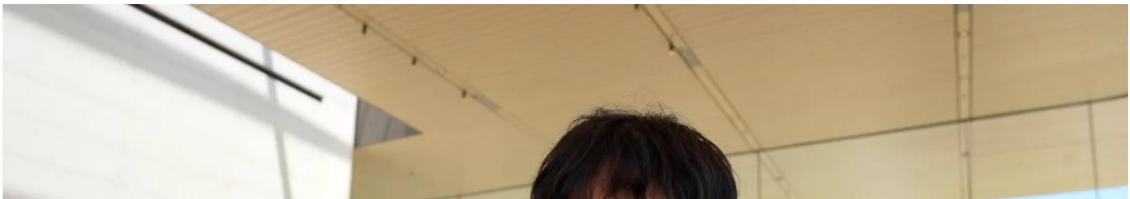
Economía Tecnología Política Desarrollo profesional Lo último

Newsletters

HOME > ESTRATEGIA > EMPLEO

Estudiar informática ha dejado de ser el camino hacia la tierra prometida del dinero y la seguridad laboral

Kwan Wei Kevin Tan, Business Insider 23 nov. 2023 23:30h.



cybernews®

Home » Editorial

Experiment: IT companies eager to hire self-taught pros

Updated on: November 15, 2023 12:53 PM 1



Ernestas Naprys, Senior Journalist





AWS Certification & Training

Tips and resources to fast-track your Cloud Career

📅 Weekly newsletter

151,049 subscribers

✓ Subscribed



Our Solutions ▾

Our Perspectives ▾

Who We Are ▾

[Home](#) > [Blog](#) > [Manage a Small Business](#) > 5 Ways Professional Certifications Add Value

5 Ways Professional Certifications Add Value



By MBO Partners | April 1, 2022

Share [f](#) [X](#) [in](#) [✉](#)



THE VALUE OF CERTIFICATION

SKILLS HAVE BECOME THE GLOBAL CURRENCY OF 21ST CENTURY ECONOMIES!

In a world where competition for jobs, pay increases, and academic success continues to increase, certifications offer hope because they are a credible, third-party assessment of one's skill and knowledge for a given subject.





[Products](#) [Solutions](#) [Pricing](#) [Documentation](#) [Learn](#) [Partners](#)

[Training and Certification](#) [Get Trained](#) [Get Certified](#)

AWS Cloud Institute

The virtual cloud-skills training program that will help you learn in just one year - regardless of your technical background. Come build your future today.

[Apply now](#)

[Already enrolled? Sign in »](#)

training
help you build
computing career

NEWS AND STORIES

Access to the most

Our free training is designed to meet a wide variety of schedules and learning goals. Each program offers something different. Read on to learn more and get started.

Amazon is committed to providing [free cloud computing skills training](#) to 29 million people around the world by 2025. Use the following free AWS-designed cloud skills training programs and information to get started.

AWS Skill Builder

PAGE OVERVIEW

1	AWS Skill Builder
2	AWS Educate
3	AWS re/Start
4	AWS Skills Centers
5	Machine Learning University (MLU)
6	AWS Fiber Optic Fusion Splicing

↑



THE NEW STACK

PODCASTS EBOOKS EVENTS NEWSLETTER

ARCHITECTURE ENGINEERING OPERATIONS

CLOUD NATIVE ECOSYSTEM / CLOUD SERVICES / FINOPS / HARDWARE / OPERATIONS

'Merchants of Complexity': Why 37Signals Abandoned the Cloud

Provisioning a fleet of servers in 30 minutes is magic, but it is not a requirement that comes up that often for most businesses, David Heinemeier Hansson argues.

Dec 26th, 2023 8:15am by [Joab Jackson](#)



★★★★★ "GETS BETTER AND BETTER"

Leaving the Cloud: Cloud Computing Isn't For Everyone

We've run extensively in both Amazon's cloud and Google's cloud, but the savings never materialized. So we've left.

[What's New?](#) [Features](#) [Sign in](#)

[Pricing +](#)



[Products](#) [Solutions](#) [Pricing](#) [Documentation](#) [Learn](#) [Partner Network](#)

GLG Brightpaper - The business value of Amazon W

Cloud Economics Center

Understand and optimize the value of AWS

[Get started](#)

Introduction to AWS Economics

Reducing Costs and Complexity

May 2015



Paradigms of using microservices

fmorenod.co
©2023

prime video | TECH

Homepage

Our Innovation ▾

Our People

Video Streaming

Scaling up the Prime Video audio/video monitoring service and reducing costs by 90%

The move from a distributed microservices architecture to a monolith application helped achieve higher scale, resilience, and reduce costs.



Architecture Style : Modulith (vs Microservices)



Pier-Jean Malandrino · Follow

Published in Level Up Coding · 4 min read · Jan 28, 2024



DevOps.com

POWERED BY Techstrong Group

LATEST ▾

VIDEOS/PODCASTS ▾

WEBINARS ▾

LIBRARY

EVENTS ▾

SPONSORED CONTENT

RELATED SITES ▾

MEDIA KIT

ABOUT

AI

CLOUD

CI/CD

CONTINUOUS TESTING

DATAOPS

DEVSECOPS

DEVOPS ONRAMP

PLATFORM ENGINEERING

SUSTAINAB

⚡ Hot Topics

Project Maintainers Add Code Profiling Capabilities

• Time to Extend DevOps Visibility to the Network Ed

Best of 2023: Don't Build Microservices, Pursue Loose Coupling

Best of 2023: Don't Build Microservices, Pursue Loose Coupling



BY: CHRIS BERTINATO ON DECEMBER 26, 2023

Medium



Search



Write

Sign up

Rebuilding Netflix Video Processing Pipeline with Microservices

Top highlight



Netflix Technology Blog · Follow

Published in Netflix TechBlog · 9 min read · Jan 10, 2024



🏠 > Blog > OpenTF Joins The Linux Foundation as OpenTofu!

OpenTF Joins The Linux Foundation as OpenTofu!



Omry Hay

env0 CTO & Co-founder, OpenTofu Steering Committee

DEV

Search...



179



12



91



Lucas F. da Costa

Posted on 29 Aug 2023



54



32



30



30



33

One staging for each engineer: introducing Layerform

#devops #infrastructureascode #terraform



READING & LITERACY

‘I Literally Cried’: Teachers Describe Their Transition to Science-Based Reading Instruction



By [Elizabeth Heubeck](#) — September 15, 2023 ⌚ 6 min read

Cognitive Bias:

Outcome Bias (Historian Error): Once you look back, every decision looks like it makes sense. But when you are in the moment, it is not that clear. The 2008 bank crisis seems very easy to understand, but back in time, even the smartest Wall

#6 Reciprocity

Reciprocity is the central core of cooperation among people that sustains economy growth and social development. The act of reciprocity are employed by Non-Governmental Organizations (NGOs) and philanthropic

THE INTERNATIONAL BESTSELLER
OVER 3 MILLION COPIES SOLD

THE ART OF THINKING CLEARLY

The Secrets of Perfect Decision-Making

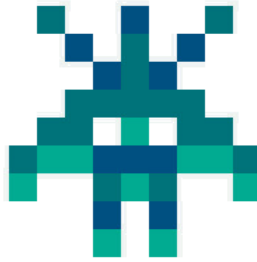
ROLF DOBELLI



- **Comms Engineer**, M.Sc., University of York, UK. **Electronic Engineer**, U Javeriana.
- {Enterprise, Solutions, Software} **Architect**, **DevOps Engineer**, Low-Level **Developer**.
- 17 years of working experience on massive transport, financial companies (Banks and **Transactional Platforms**) and software companies (Current).
- 20+ Cloud Certifications



/in/fmorenod - fmorenod@gmail.com





- **Schedule** your appointments: 10 sessions.
- Arrive early to check your connection. Bring your own questions from concepts or from labs.
- **No recording** is allowed, except extraordinary cases.
- **Raise your hand** or interrupt the class **if you have to**: I plan to stop every 2/3 slides.

Punctuality

Check connection, audio and questions

Previous questions or review last class: 5 mins
Initial Survey - 5 mins
Presentation: 80 mins
Break: 10 mins
Presentation: 65 mins
Session Survey - 5 mins
Cloud Lab of the Session: 10 mins or Previous Lab Questions: 5 mins (Optional)



Why AWS ?

- 2019
- 2020
- 2021
- 2022

Figure 1: Magic Quadrant for Cloud Infrastructure and Platform Services



Source: Gartner (July 2022)



Características del Curso

- Un curso que “ayuda a identificar, comparar servicios y aplicar mejores practicas para arquitecturas seguras, robustas y de alta disponibilidad”.
- Es un curso refinado por *miles de* estudiantes y *cientos* instructores durante años, que se enfoca en los métodos y servicios mas usados en la industria.
- Un curso no garantiza que se cubran todos los temas solicitados ya que son muchos servicios por cada examen – 6 paginas SAA, 5 para DAV y 7 para SAP.
- Se espera que exista un trabajo independiente por parte del estudiante para leer los *Whitepapers*, la documentación y los FAQs.
- Los laboratorios son para el trabajo independiente de los estudiantes, no se dictan en clase y se manejan por la Plataforma de AWS.



Listado de Cursos

- El nombre del curso y su contenido puede cambiar. Es importante mirar el nombre del curso para mencionarlo de manera publica y oficial.
- Un ejemplo del listado de Cursos por Rol se puede encontrar aqui [no-official](#) pero lo adecuado es en el [PDF oficial \(Pag. 27-32\)](#).

Ar Developer

	Title	Description	Duration	Course level
A	Developing on AWS	Learn how to use the AWS SDK to develop secure and scalable cloud applications.	3 days	Intermediate
A	Advanced Developing on AWS	Learn how to take a legacy, on premise monolithic application and refactoring it into a serverless microservices architecture.	3 days	Advanced



Classes Management:

URL Generada automáticamente para los estudiantes

aws training and certification

My account

My Classes > Architecting on AWS

Architecting on AWS

Location	Start Date	End Date
Virtual Class Link	August 23, 2023 @ 11:00 AM America / Bogota (UTC-05:00)	October 30, 2023 @ 11:59 PM America / Bogota (UTC-05:00)

Labs

Labs will be made available by instructors

Lab Guide [Lab Guide](#) [Student Guide](#)

Lab 1 - Explore and interact with the AWS Management Console and AWS Command Line Interface

2 HOURS

This lab provides you with a basic overview of the AWS Management console and API

[Launch](#)

online.vitalsource.com/reader/books/200-ARCHIT-75-EN-LG-E/pageid/98

Architecting on AWS 7.5.5 (EN): Lab Guide

AWS Training and Certification

Contents	
Lab 1: Exploring and Interacting with the AWS Management Console and AWS CLI	4
Lab 2: Building your Amazon VPC Infrastructure	19
Lab 3: Creating a Database Layer in Your Amazon VPC Infrastructure	52
Lab 4: Configuring High Availability in Your Amazon VPC	69
Lab 5: Building a Serverless Architecture	94

Task 2: Creating three Amazon SQS queues

In this task, you create three Amazon SQS queues to subscribe the queues to the previous task.

Task 2.1: Creating an Amazon SQS queue

- At the top of the AWS Management Console, click **Services**.
- In the search bar, type **Simple Queue Service**.
- Click **Create queue**.
- On the **Create queue** page, in the **Queue type** section, choose **Standard** (the default).
- In the **Name** field, enter **thumbnail-queue**.
- The console sets default values for the other fields.
- Click **Create queue**.
- Amazon SQS creates the queue and displays the **Queue URL**.

Lab Support

Almost all AWS courses have self-directed labs for the students.

online.vitalsource.com/reader/books/200-ARCHIT-75-EN-SG-E/pageid/555

Architecting on AWS 7.5.5 (EN): Student Guide

AWS Training and Certification

Module 8: Automation	396
Module 9: Containers	428
Module 10: Networking 2	464
Module 11: Serverless	503
Module 12: Edge Services	550
Module 13: Backup and Recovery	607
Course Summary	654

Edge services architecture

In this module, you learn about each AWS service involved in this example:

Review the edge services architecture. A user sends a request to an application partly hosted on premises. The user's request interacts with Amazon Route 53, AWS WAF, Amazon CloudFront, and AWS Outposts. The AWS services hosted in the cloud are protected with AWS Shield.

In this module, you learn about each of the services labeled in the example.

- First, you learn about Amazon Route 53 and how you can use it to direct traffic to your resources. Route 53 operates at edge locations around the world.
- Next, you learn about the AWS content delivery network known as Amazon CloudFront.

Lab environment

You are tasked with evaluating and improving an event-driven architecture. Currently, Customer Care professionals take snapshots of products and store the images. The development team runs PHP applications that upload a file notification to an Amazon SNS topic. Amazon SNS sends a message to separate SQS queues. The initial design was to use a single queue for all messages. After reviewing the initial design with Lambda functions. The Lambda functions process the messages and store the output in a separate S3 bucket.

The following diagram shows the workflow:



Start lab

- To launch the lab, at the top of the page, choose **Start lab**.
- You must wait for the provisioned AWS services to be ready before you can continue.
- To open the lab, choose **Open Console**.

You are automatically signed in to the AWS Management Console in a new web browser tab.

Do not change the Region unless instructed.

Common sign-in errors

Error: You must first sign out

Amazon Web Services Sign In

You must first log out before logging into a different AWS account.

To logout, [click here](#)

If you see the message, **You must first log out before logging into a different AWS account:**

- Choose the [click here](#) link.