



PUBLIC SECTOR  
SUMMIT ONLINE

# Building a diverse and prepared pipeline of cloud talent

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Digital Skills Leader

AWS Training and Certification

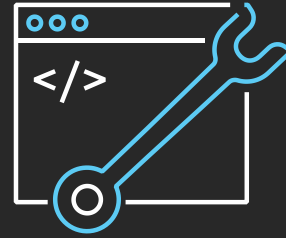
# The most important skills in 2019



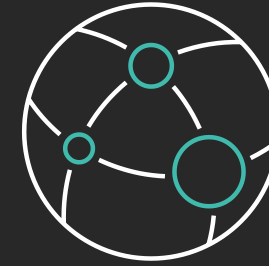
Cloud Computing



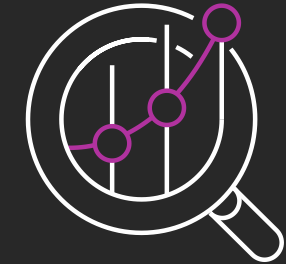
Cybersecurity



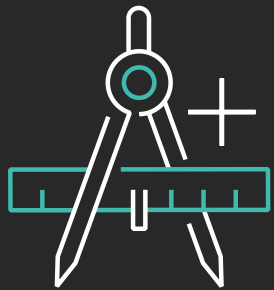
Application Development & Programming



Networking & Wireless



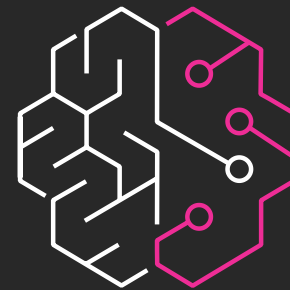
Analytics & Data Management



Systems & Enterprise Architecture



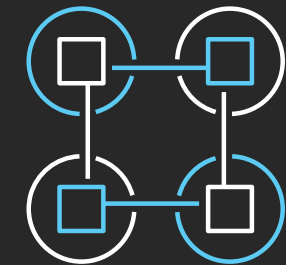
Project Management



Artificial Intelligence (AI) & Machine Learning



Help Desk & Tech Support



Virtualization

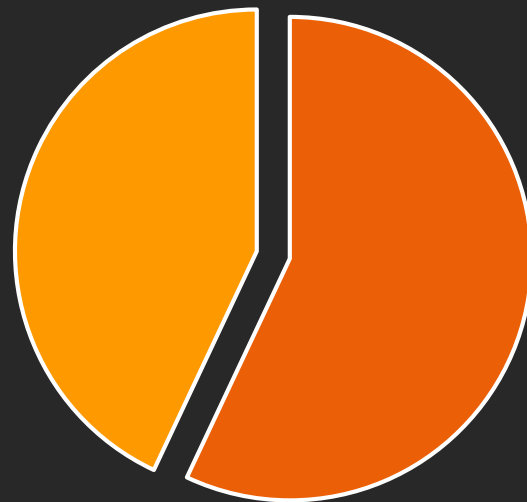
# Current global cloud job market

Today on LinkedIn: There are **264,501** cloud-related vacancies posted globally.



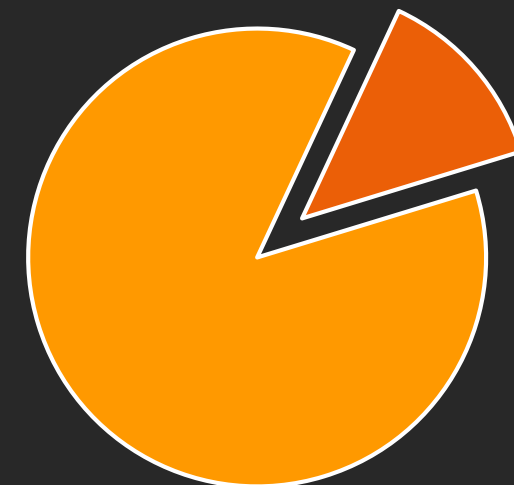
**20%**

52,341 cloud-related vacancies are posted in Asia and the Middle East.



**57%**

151,323 global cloud-related vacancies require AWS skills.



**12%**

31,532 cloud-related vacancies are posted in Asia and the Middle East and require AWS skills.

“Cloud has quite simply changed the game.

Cloud is the ultimate enabler, opening new channels of revenue by leveraging technologies like AI and the Internet of Things (IoT).

Other topics like data analytics, networking, project management and cybersecurity—all have been greatly influenced by cloud adoption...”

*Source: Global Knowledge, The 10 Most Important IT Skills for 2019*

“When it comes to cloud adoption, the biggest challenge isn't technology — it's the **people** and processes that must change and adapt.”

Source: 13 Biggest Challenges When Moving Your Business to The Cloud  
Forbes, June 2017

# Cloud skills challenge

Cloud is changing the way we design, develop, and manage IT infrastructure.

Required skillsets are now a combination of technical, analytical, and problem-solving skills.

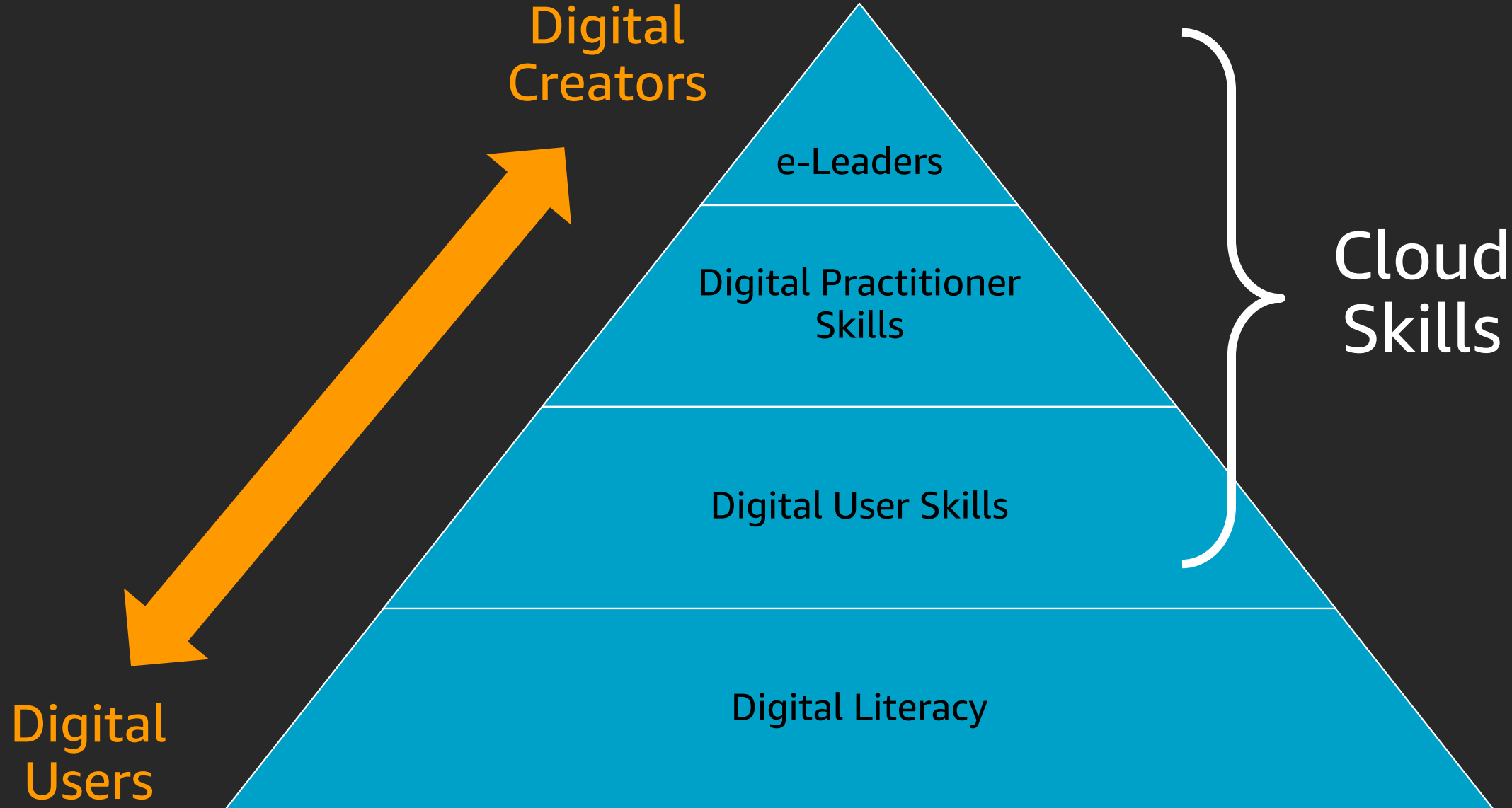
## Technical Skills

- Cloud computing
- Data analytics
- Mobile and IoT development
- Digital and cloud security

## Professional Skills

- Comfort with remote management
- Data-driven decision making
- Passion for learning
- Change management
- Iterative and incremental solution building

# Digital skills pyramid



Source: A. Richier – e-Skills for the 21<sup>st</sup> Century *E-Skills for Jobs High-Level Conference, Riga, 16 June 2015*



# AWS approach to the cloud skills challenge



## Role-Based Learning Paths

Cloud Practitioner, Solutions Architect, Developer, Systems Operations



## Skills Validation

Industry-leading certification exams and professional development for educators



## Education Programs

Free curricula for post-secondary institutions and workforce development for non-traditional learners



## Employment Readiness

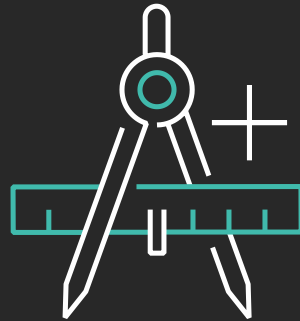
Connecting cloud ecosystem employers with learners

# Role-based learning paths



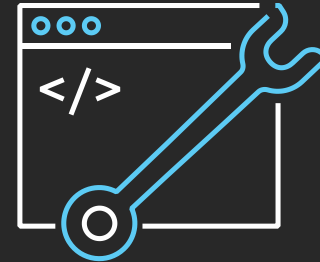
Cloud Practitioner

Learn cloud fundamentals and best practices



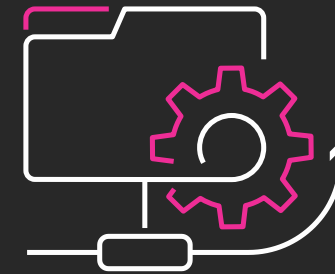
Architect

Learn to design highly available systems



Developer

Learn to develop applications for the cloud



Operations

Learn to automate applications, networks, and systems



Data analytics

Learn to collect, ingest, store, process, and visualize data

Additional paths available for Machine Learning, Storage, Media Services, Specialty Exams, and APN Partners  
Learn more <https://aws.amazon.com/training/learning-paths/>

# Skills validation

## Available AWS Certifications

aws certified

Updated March 2020

### 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



Architect

Operations

Developer

### Foundational

*Six months* of fundamental AWS Cloud and industry knowledge

Cloud Practitioner



## Specialty

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



# Education programs

Empowering individuals to launch cloud careers worldwide

These programs offer individuals with various backgrounds at different stages in their careers, new opportunities to develop and advance their AWS skills.



# AWS Educate

Through AWS Educate, students and educators have access to content and programs developed to skill up for cloud careers in growing fields. AWS Educate also connects companies hiring for cloud skills to qualified student job seekers with the AWS Educate Job Board.



Students K-12  
and Ages 18+

Self-paced Cloud  
Career Pathways and  
specialty badges and  
no-cost access to  
AWS Console



Educators

Access AWS services,  
launch virtual  
classrooms, and use  
tools to help students  
learn in virtual, in-  
person, and blended  
environments



Education  
Institutions

Align academic  
programs to entry-  
level job  
requirements through  
degrees, certificates,  
and diplomas in cloud  
computing



Employers

Post jobs to the AWS  
Educate Job board to  
find and hire diverse,  
global talent for  
entry-level cloud jobs  
and internships



U.S. Veterans

Access cloud  
resources needed to  
pursue cloud  
computing jobs

Learn more: [awseducate.com](https://awseducate.com)

# Build On, ASEAN 2020 2020 Hackathon



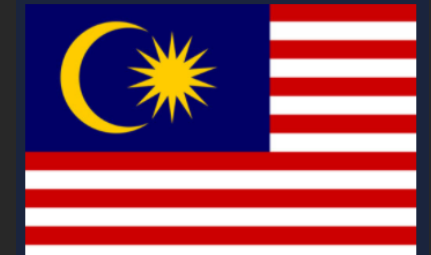
The world's first AWS DeepRacer Women's League in Southeast Asia



**Build On, Thailand 2020**  
Embracing Your Future



**Build On, Singapore 2020**  
Architecting Your Future



**Build On, Malaysia 2020**  
Empowering Your Future



**Build On, Indonesia 2020**  
Developing Your Future



**Build On, Philippines 2020**  
Envisioning Your Future

"At AWS, we understand the importance of building an inclusive workforce with diverse talent to help organizations to innovate, grow, and thrive,"

- Tan Lee Chew, Managing Director for ASEAN, Worldwide Public Sector, Amazon Web Services

# AWS Academy

AWS Academy prepares higher education students around the world to fill a wide range of in-demand cloud roles. With hands-on experience in the AWS Cloud, AWS Academy graduates have the skills and knowledge they need to add value at your company.



Curriculum  
developed and  
maintained by AWS



Post-secondary  
program integration



Aligned to AWS  
certification



Employment  
readiness

Learn more: [aws.amazon.com/training/awsacademy](https://aws.amazon.com/training/awsacademy)

# AWS Academy graduate profile

AWS Academy graduates have gone on to pursue key roles, such as Solutions Architect, DevOps Engineer, Systems Engineer, Business Analyst, and Cloud Consultant

- Higher education students generally enrolled in degree or continuous education programs
- Pursuing degrees in computer science, information systems, engineering, business, design, or related subjects
- Located in towns and cities around the world (not just major tech hubs)

*Some employers who have hired AWS Academy graduates*

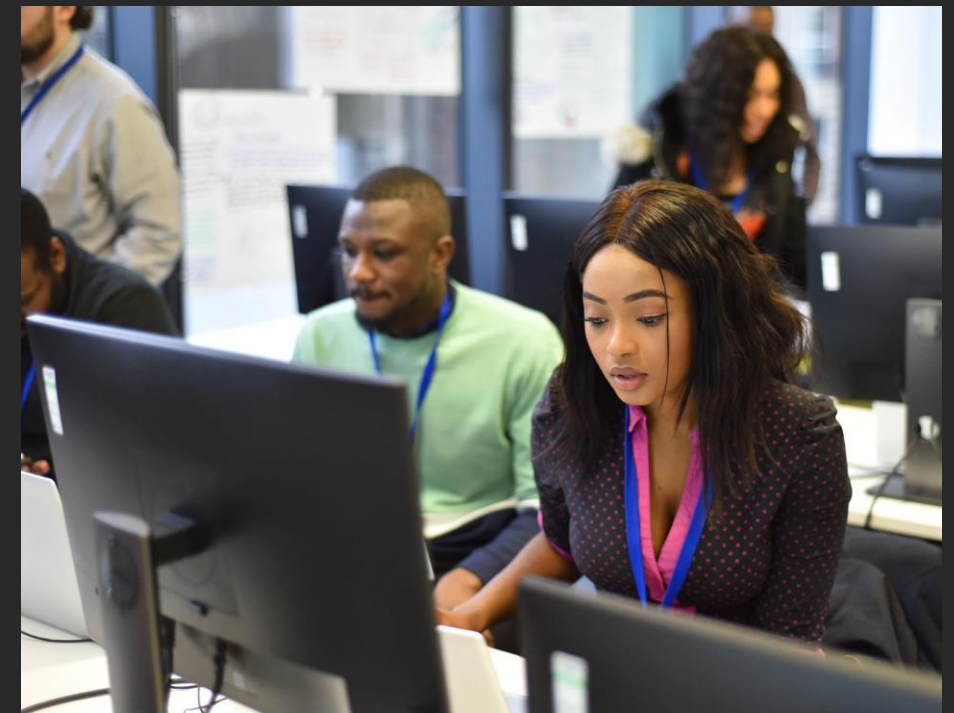


**Deloitte.**



# AWS re/Start

AWS re/Start is a full-time, classroom-based skills development and training program that prepares individuals for entry-level cloud positions. After 12 weeks of training, AWS re/Start connects alumni with potential employers.



Learn more: [aws.amazon.com/training/restart](https://aws.amazon.com/training/restart)

# AWS re/Start graduate profile

The program trains a diverse set of learners, with a focus on unemployed or underemployed individuals, U.S. military veterans and their families, and young people.

Alumni are prepared for **entry-level cloud roles** performing frontline support, escalating issues effectively, carrying out initial troubleshooting, and automating manual tasks.

- Trained in AWS Cloud fundamentals
- Prepared to take the AWS Certified Cloud Practitioner exam
- Ready to connect with employers

*Some employers who have hired  
AWS re/Start alumni*

splunk<sup>®</sup>

bjss

INFINITY  
WORKS



FIBRENATION



# Closing the cloud skills gap

- 1** Share your hiring forecast with us so we can better understand your current and future hiring needs
- 2** Help us understand your ideal candidate profile, location, and prerequisites
- 3** Share job descriptions/open roles with us, so we can distribute to students and graduates

# AWS-trained individuals ready to fill in-demand cloud roles

Learn more about how AWS can help you hire for your open roles

aws  educate



[www.awseducate.com/registration](http://www.awseducate.com/registration)

aws  academy



[pages.awscloud.com/  
aws-academy-registration.html](http://pages.awscloud.com/aws-academy-registration.html)

aws  re/start



[pages.awscloud.com/  
traincert-restart-interest.html](http://pages.awscloud.com/traincert-restart-interest.html)

# Thank you!

Izabela Milewska