



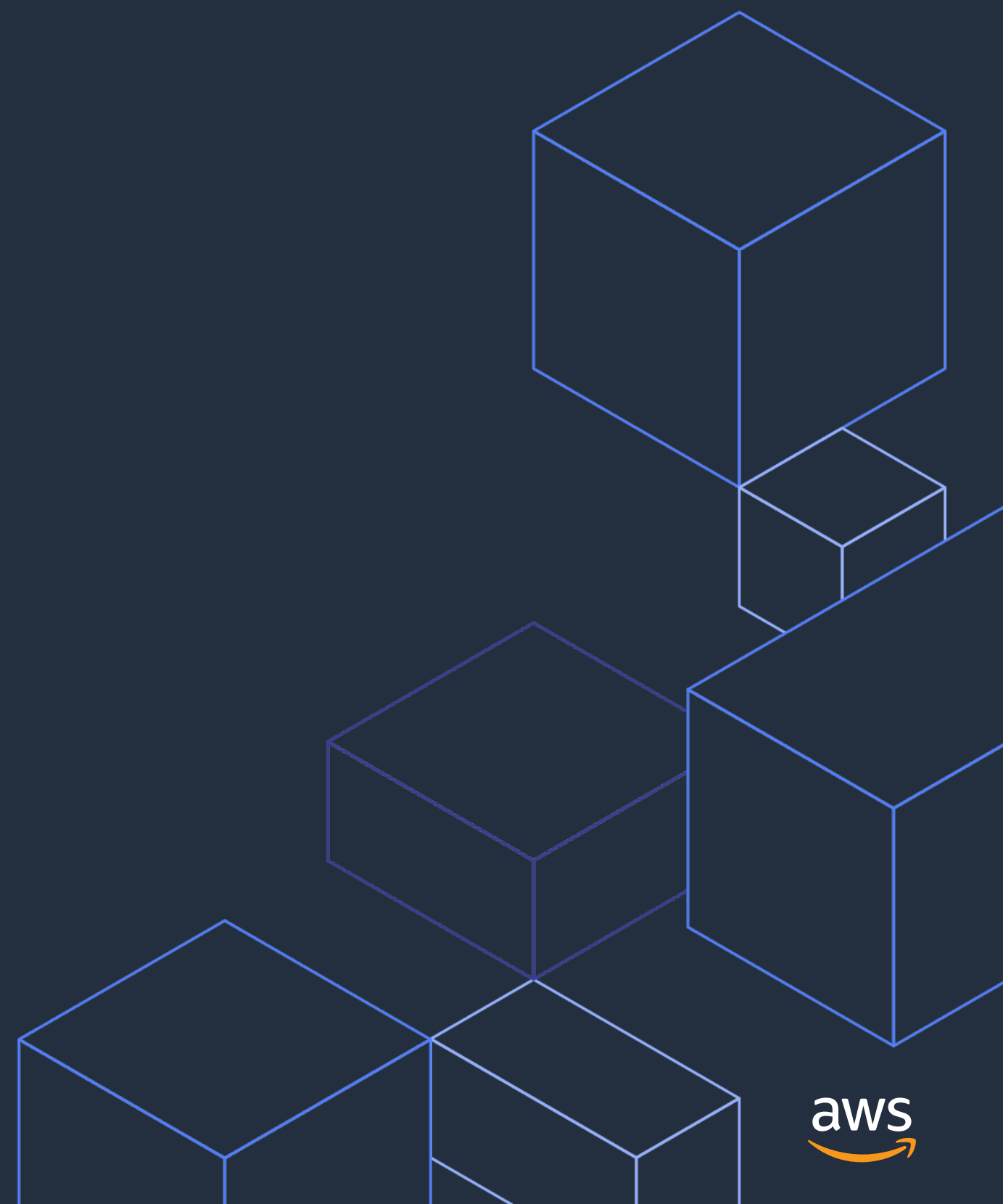
The Future of Cloud Computing in the Workforce

Building a pipeline of cloud-ready talent

Agenda

- What is the cloud?
- Current cloud job market
- Cloud skills gap in Florida
- Building cloud talent at Miami Dade College
- Learn more and get started

What Is Cloud?



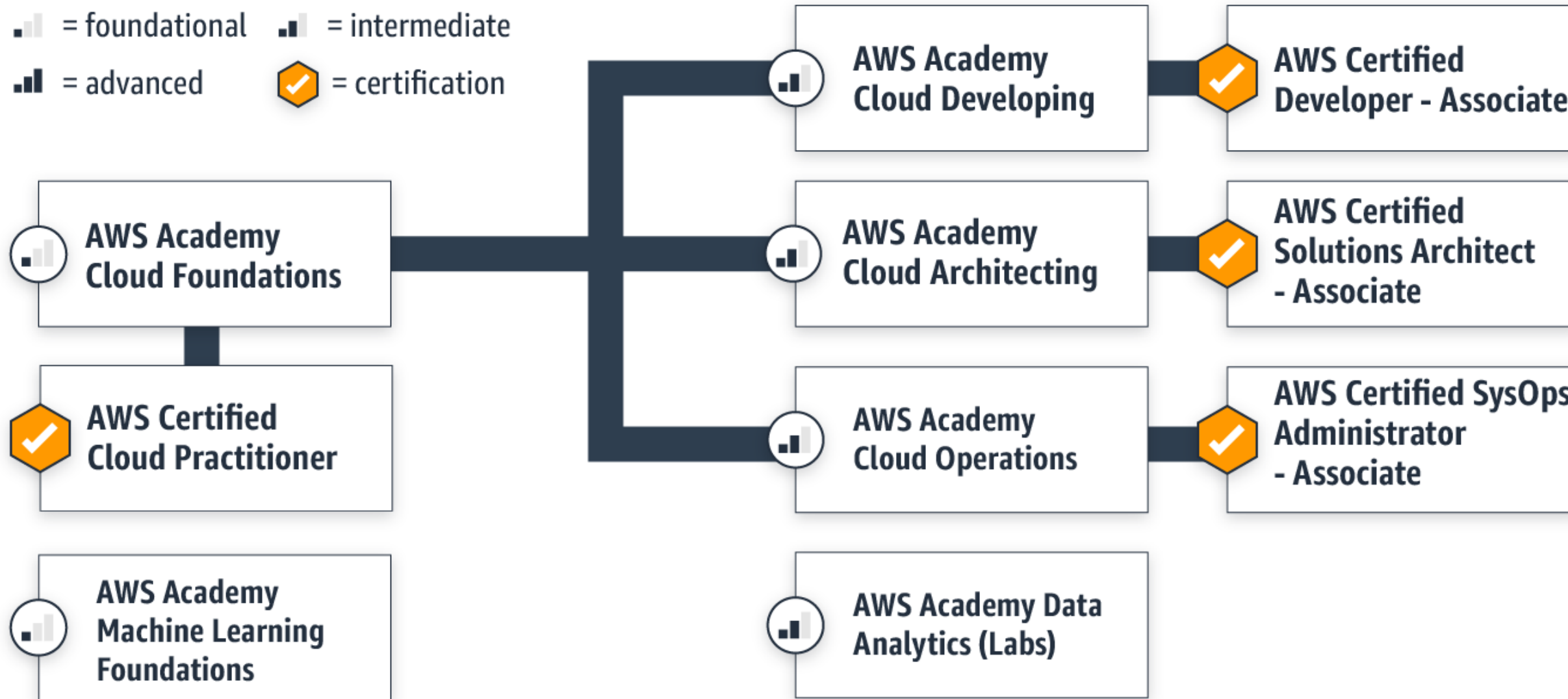
Cloud Computing Benefits

“The cloud” refers to the on-demand delivery of IT resources via the Internet with pay-as-you-go pricing



AWS Learning Paths

 = foundational  = intermediate
 = advanced  = certification



AWS Certifications

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**



The Cloud Job Market



The Most Important Skills in 2020



Cybersecurity



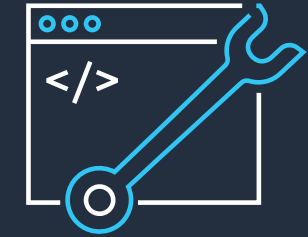
Cloud Computing



Data Analytics & Data Science



Networking & Wireless



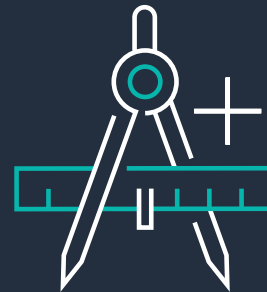
Software Development



Artificial Intelligence (AI) & Machine Learning



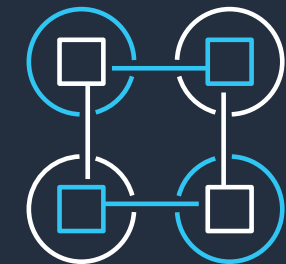
Project Management



Programming



IT Service Management



Virtualization

Current Cloud Job Market

- Today: **5,361,824 unique cloud-related vacancies** posted in the US alone in 2020 (See US cloud skills postings report 2020 – EMSI.com)
- New Accenture research, commissioned by Amazon, finds that **33 million low-income Americans could transition into new, emerging jobs** and earn a median wage of \$34/hour if provided with the right training.
- The real unemployment rate from COVID 19 skyrocketed to nearly **15%** in April, 2020 and now sits close to 9%.

The Cloud Skills Gap in Florida

The Florida Cloud Skills Gap Overview

Significant opportunity to skill, upskill, and reskill to in-demand jobs

AWS Specific
Postings:
17,625 (11%)

AWS Postings YOY
Increase:
38%

Median Posted
Salary:
\$85,888

2020 Cloud Jobs Unfilled:
79,868

2020 Cloud Hires:
84,328

Unique Cloud Job Postings (Jan 2020 to Dec 2020):
164,196 (11% YOY Growth)

Top Florida Companies Hiring for Cloud Skills

	Company	Jobs
1	Oracle Corporation	9,763
2	Robert Half	5,019
3	Kforce, Inc	4,063
4	Citigroup	2,817
5	Lockheed Martin Corp	2,531
6	Deloitte LLP	2,494
7	Anthem Inc	2,112
8	General Dynamics	1,461
9	Northrop Grumman	1,406
10	CyberCoders Inc	1,323

AWS Employer Engagement in South Florida

- AWS Employer Engagement team connects jobseekers from Academy, Educate and re/Start programs to early career employment through:
 - National and international **Premier Employers**
 - Local **Business Consortia**, such as Economic Development Organizations, Chambers of Commerce, Tech Councils or Industry Alliances
 - Cloud-job platforms like the **Educate Job Board**
 - **Virtual job fairs and webinars** directly connecting jobseekers and employers

AWS is currently working with the **Miami-Dade Beacon Council and Greater Fort Lauderdale Alliance** to connect graduates in the Greater Miami Area to local employers

Progress to Date in Florida

Success story: building cloud talent with AWS at Miami Dade College



About Miami Dade College (MDC)



- 100,000+ students
- 91% minorities
- 57% women
- 57% low income
- 12,000+ degrees awarded

MDC's cloud education journey with AWS



Faculty training

Development of courses and programs

Cloud computing center

Summer camps

Launch of cloud degrees

Students trained and certified

Students placed



Faculty training with AWS

- AWS Academy accredited educators
- Access to courses/learning resources
- AWS Certification exam vouchers

Results:

- AWS Certified Solutions Architect – Associate (8)
- AWS Certified Cloud Practitioner (8)
- AWS Certified Developer Associate (2)
- AWS Certified Data Analytics Specialty (1)
- AWS Security Specialty (1)



Course development

- New credit courses in cloud computing
 - Cloud Essentials: prepares students for AWS Cloud Practitioner
 - Cloud Infrastructure: prepares students for AWS Solutions Architect – Associate
 - Cloud Capstone: prepares students for real-world cloud projects
- “Cloudification” of existing courses:
 - Databases
 - Linux
 - Python
 - Security

Program development

**College Credit Certificate
Enterprise Cloud Computing**



**8–11 months
Fall 2019**

**Associate in Science
Networking Technologies,
Concentration in Cloud**



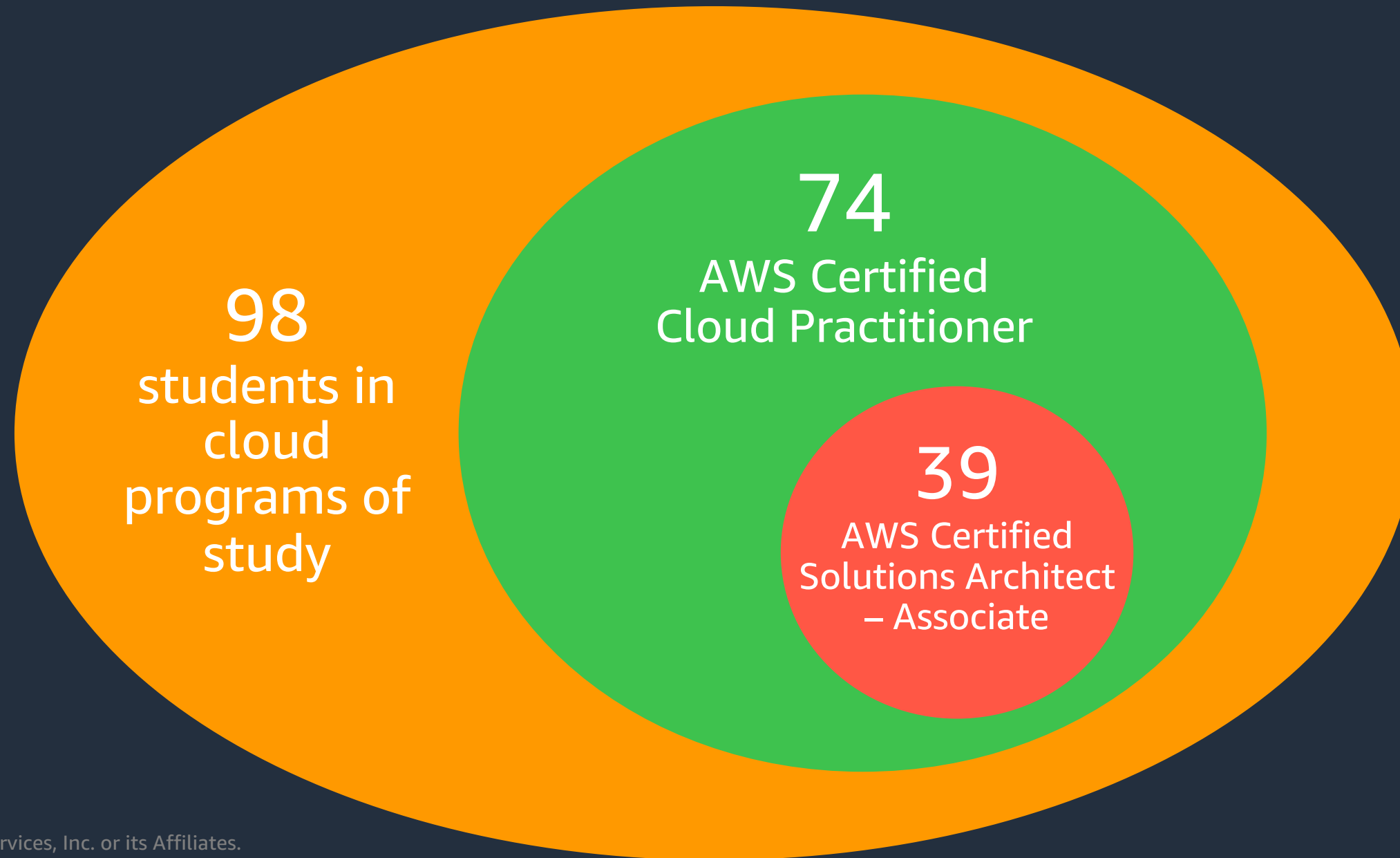
**2 years
Fall 2019**

Advanced Cloud Certificates



Under development

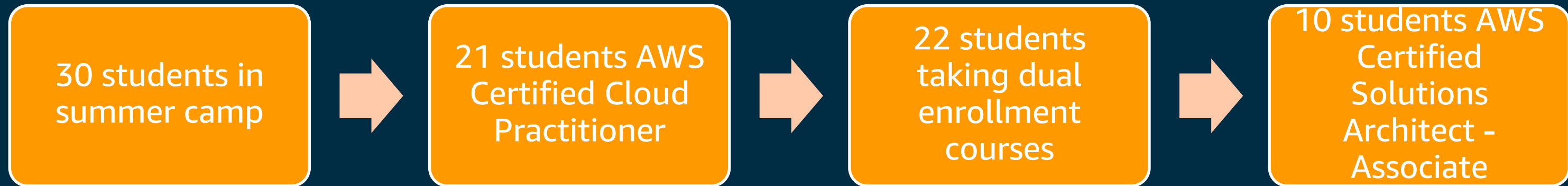
Student training and certification outcomes



Summer camps

Cloud101:

No-cost 2-week program to expose high school students to cloud computing



Next step: Cloud 101 in June 2021 for 50 students

No-cost continuing education programs

“UpSkill your career and rejoin the workforce”



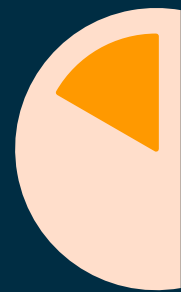
4 weeks



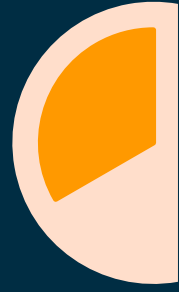
8 weeks

100+ students certified

Student placement



Roundtable
with local
companies



Capstone
projects/
internships



Entry-level
positions

Next steps

- Engagement with companies for student placement
- Launch training in advanced AWS Certifications
- Continue increasing talent pool of cloud professionals

Learn more and get started!

How to join and get started

Step 1

Institution completes the membership application (online)

Step 2

Institution nominates educator(s) for accreditation and drafts instructional plan (online)

Step 3

Educators take complimentary educator accreditation training

Step 4

Educators pass an AWS Certification exam, present to a technical assessor,* and are accredited to teach

Step 5

Educators deliver course content to students

Rebecca Allyn – allynr@amazon.com

Nick Lee-Romagnolo – nlr@amazon.com

Mike Bryant – Mikebry@amazon.com