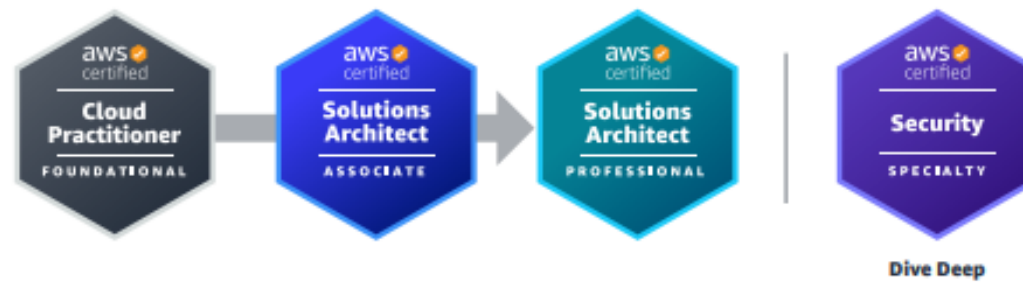| Roles and responsibilities	AWS Certification Paths

Architecture

Solutions Architect

Design, develop, and manage cloud infrastructure and assets, work with DevOps to migrate applications to the cloud.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE → aws certified **Solutions Architect** PROFESSIONAL | aws certified **Security** SPECIALTY

Dive Deep

Application Architect

Design significant aspects of application architecture including user interface, middleware, and infrastructure, and ensure enterprise-wide scalable, reliable, and manageable systems.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE → aws certified **Developer** ASSOCIATE → aws certified **DevOps Engineer** PROFESSIONAL | aws certified **Solutions Architect** PROFESSIONAL

Dive Deep

Data Analytics

Cloud Data Engineer

Automate collection and processing of structured/semi-structured data and monitor data pipeline performance.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE → aws certified **Data Analytics** SPECIALTY | aws certified **Security** SPECIALTY

Dive Deep

Development

Software Development Engineer

Develop, construct, and maintain software across platforms and devices.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Developer** ASSOCIATE → aws certified **DevOps Engineer** PROFESSIONAL

Systems Administrator

Install, upgrade, and maintain computer components and software, and integrate automation processes.

aws certified Cloud Practitioner FOUNDATIONAL → **aws certified SysOps Administrator ASSOCIATE** | **aws certified DevOps Engineer PROFESSIONAL**

Dive Deep

Cloud Engineer

Implement and operate an organization's networked computing infrastructure and Implement security systems to maintain data safety.

aws certified Cloud Practitioner FOUNDATIONAL → **aws certified SysOps Administrator ASSOCIATE** → **aws certified Security SPECIALTY** | **aws certified DevOps Engineer PROFESSIONAL** **aws certified Advanced Networking SPECIALTY**

Dive Deep

Test Engineer

Embed testing and quality best practices for software development from design to release, throughout the product life cycle.

aws certified Cloud Practitioner FOUNDATIONAL → **aws certified Developer ASSOCIATE** → **aws certified DevOps Engineer PROFESSIONAL**

Cloud DevOps Engineer

Design, deployment, and operations of large-scale global hybrid cloud computing environment, advocating for end-to-end automated CI/CD DevOps pipelines.

aws certified Cloud Practitioner FOUNDATIONAL → **aws certified Developer ASSOCIATE** | **aws certified SysOps Administrator ASSOCIATE** **aws certified DevOps Engineer PROFESSIONAL**

Optional   Dive Deep

DevSecOps Engineer

Accelerate enterprise cloud adoption while enabling rapid and stable delivery of capabilities using CI/CD principles, methodologies, and technologies

aws certified Cloud Practitioner FOUNDATIONAL → **aws certified SysOps Administrator ASSOCIATE** → **aws certified DevOps Engineer PROFESSIONAL** → **aws certified Security SPECIALTY**

Cloud Security Engineer

Design computer security architecture and develop detailed cyber security designs. Develop, execute, and track performance of security measures to protect information.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **SysOps Administrator** ASSOCIATE → aws certified **Security** SPECIALTY | aws certified **DevOps Engineer** PROFESSIONAL   aws certified **Advanced Networking** SPECIALTY
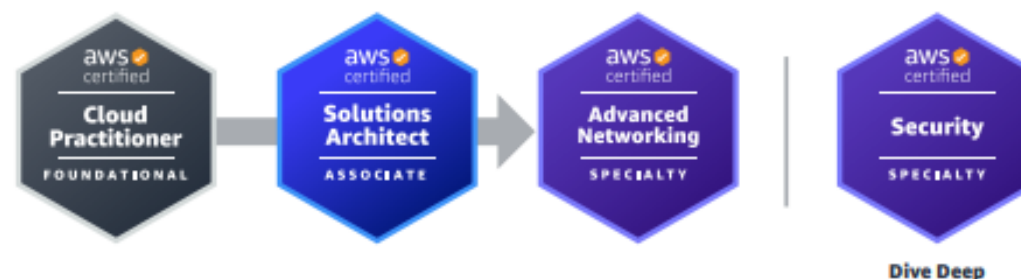
Dive Deep

Cloud Security Architect

Design and implement enterprise cloud solutions applying governance to identify, communicate, and minimize business and technical risks.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE → aws certified **Security** SPECIALTY | aws certified **Solutions Architect** PROFESSIONAL

Dive Deep

Network Engineer

Design and implement computer and information networks, such as local area networks (LAN), wide area networks (WAN), intranets, extranets, etc.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE → aws certified **Advanced Networking** SPECIALTY | aws certified **Security** SPECIALTY

Dive Deep

Machine Learning Engineer

Research, build, and design artificial intelligence (AI) systems to automate predictive models, and design machine learning systems, models, and schemes.

aws certified **Cloud Practitioner** FOUNDATIONAL → aws certified **Solutions Architect** ASSOCIATE   aws certified **Developer** ASSOCIATE   aws certified **SysOps Administrator** ASSOCIATE → aws certified **Machine Learning** SPECIALTY

Ready to get started? Select the exam(s) aligned with your career goals and follow the steps below to approach exam day with confidence!

Step 1

Get to know the exam and exam-style questions

Step 2

Learn about exam topics in **AWS Skill Builder**

Step 3

Take exam prep training in **AWS Skill Builder**

Step 4

Assess your exam readiness with Official Practice Exams