

AWS Learning Roadmap

1. Foundational Concepts

- **Cloud Computing Basics**
 - Understanding IaaS, PaaS, SaaS
 - Benefits of cloud computing: scalability, cost-efficiency, flexibility
- **AWS Global Infrastructure**
 - Regions, Availability Zones, Edge Locations
- **Core AWS Services**
 - Compute: EC2, Lambda
 - Storage: S3, EBS
 - Networking: VPC, Route 53
 - Databases: RDS, DynamoDB
 - Security: IAM, KMS

2. Hands-On Practice

- **AWS Free Tier**
 - Utilize free resources to experiment with services
- **AWS Management Console & CLI**
 - Navigate and manage AWS services
- **Deploying Applications**
 - Launching a simple web application using EC2 and S3

3. Intermediate Topics

- **Infrastructure as Code**
 - Introduction to AWS CloudFormation and Terraform
- **Monitoring & Logging**
 - CloudWatch, CloudTrail
- **Security Best Practices**
 - IAM policies, roles, and best practices
- **Cost Management**
 - AWS Pricing Calculator, Budgets, Cost Explorer

4. Advanced Topics

- **Serverless Architecture**
 - Deep dive into AWS Lambda, API Gateway
- **Containers**
 - ECS, EKS, Docker on AWS
- **CI/CD Pipelines**
 - AWS CodePipeline, CodeBuild, CodeDeploy
- **Advanced Networking**

- VPC peering, Transit Gateway, Direct Connect
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Recommended Resources

- **AWS Training and Certification**
 - [AWS Skill Builder](#)
 - [AWS Certification Paths PDF](#)
 - **Online Courses**
 - [Coursera: AWS Fundamentals](#)
 - [Udemy: AWS Certified Solutions Architect](#)
 - **Books**
 - *AWS Certified Solutions Architect Official Study Guide*
 - *Amazon Web Services in Action* by Michael Wittig and Andreas Wittig
 - **Hands-On Labs**
 - [Qwiklabs](#)
 - [A Cloud Guru](#)
 - **Community & Forums**
 - [AWS Reddit Community](#)
 - [Stack Overflow AWS Tag](#)
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AWS Certifications Overview

AWS certifications are categorized into four levels:

1. **Foundational**
 - *AWS Certified Cloud Practitioner*
 - Ideal for individuals new to the cloud
 - No prerequisites
 - [Certification Details](#)
2. **Associate**
 - *AWS Certified Solutions Architect – Associate*
 - Focuses on designing distributed systems
 - *AWS Certified Developer – Associate*
 - Emphasizes developing and maintaining applications
 - *AWS Certified SysOps Administrator – Associate*
 - Centers on deployment, management, and operations
3. **Professional**
 - *AWS Certified Solutions Architect – Professional*
 - Advanced expertise in designing distributed systems
 - *AWS Certified DevOps Engineer – Professional*
 - Focuses on provisioning, operating, and managing applications
4. **Specialty**
 - *AWS Certified Advanced Networking – Specialty*

- *AWS Certified Security – Specialty*
- *AWS Certified Machine Learning – Specialty*
- *AWS Certified Data Analytics – Specialty*
- *AWS Certified Database – Specialty*
- *AWS Certified SAP on AWS – Specialty*
- *AWS Certified Alexa Skill Builder – Specialty*

How to Obtain Certifications:

- **Preparation**
 - Utilize AWS's official study materials and practice exams
 - Engage in hands-on labs and real-world projects
- **Scheduling Exams**
 - Exams can be scheduled through [AWS Certification](#)
 - Options for online proctored exams or testing centers



Career Paths and Certification Alignment

Career Path	Recommended Certifications
Cloud Architect	Cloud Practitioner → Solutions Architect Associate → Solutions Architect Professional
Cloud Developer	Cloud Practitioner → Developer Associate → DevOps Engineer Professional
DevOps Engineer	Cloud Practitioner → SysOps Administrator Associate → DevOps Engineer Professional
Data Engineer	Cloud Practitioner → Data Analytics Specialty
Machine Learning Engineer	Cloud Practitioner → Machine Learning Specialty
Security Specialist	Cloud Practitioner → Security Specialty

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