

Curriculum AWS Cloud Computing with AI

10+Years
of Building
Careers

Full-time: 16 weeks / 4 months

English

Remote

Start your career in cloud computing with AWS!

In our hands-on bootcamp, you'll gain end-to-end knowledge—from IT fundamentals to managing modern AWS infrastructures professionally—in just a few weeks. You'll build the exact cloud skills that today's companies are actively seeking.

Our experienced coaches provide personalized guidance and support, preparing you for roles such as Cloud Administrator, AWS Specialist, or DevOps Engineer—whether you're starting fresh or transitioning into tech. Through practical projects, dedicated mentoring, and access to educational vouchers, you'll establish a strong foundation for a successful career in cloud computing.

Future jobs for you:

- AWS Cloud Engineer
- Junior AWS Solutions Architect
- Infrastructure Engineer

Annual salary: €54,000 – €89,000

The curricula presented here are intended as an exemplary guide to course content. Adjustments to the content and schedule are possible from didactic and organizational perspectives reasons as well as to adapt to the state of the art and current requirements of the labor market expressly remain reserved, without thereby impairing the character of the course and the overall quality of its content.

Tech Stacks

Core Services (Compute)

- Elastic Compute Cloud (EC2)
- Elastic Load Balancing
- Amazon EC2 Auto Scaling

Developer Services/Tools

- Amazon CloudFront (CDN)
- AWS Lambda (Serverless)
- AWS Cloud9
- Simple Notification service (SNS)
- Infrastructure as Code (IAC)
- Git, GitHub
- Databases: Amazon RDS, DynamoDB, Aurora
- AWS Cloudformation
- Terraform OSS & Cloud

SysOps

- AWS CloudTrail
- AWS Systems Manager
- AWS Config
- Amazon CloudWatch Logs & Events
- Service integration with Amazon Athena
- AWS Organizations
- AWS Trusted Advisor

Cloud Storage

- Amazon S3, Glacier, EBS, Instance Store, Amazon EFS
- AWS Storage Gateway
- Data Transfer & Migration

Final project

- Capstone Project

Networking

- OSI Models
- Protocols
- IP Subnetting
- Amazon virtual private cloud
- Amazon Route 53 (DNS)
- Securing & Troubleshooting
- VPC Connectivity options

Cloud Security

- Data Security/Cyber Threats
- Security lifecycle
- Threat mitigation
- IAM - Identity Management
- Security Compliance
- Multi-Factor Authentication (MFA)

Best Practices

- AWS Well-Architected Framework
- Multi-Factor Authentication (MFA)
- Cloud Adoption Framework
- WAF Principles (Web Application Firewall)

Artificial Intelligence (AI)

- Amazon Rekognition
- Amazon Q
- Prompt Engineering
- Gen AI

AWS Certification

- Exam Preparation & Certification
- Exam Blueprint, AWS White Papers

Soft Skills Development

Attention to Detail

Communication Ownership

Storytelling Resilience

Stakeholder Management

Research Skills Curiosity

Time Management

Problem Solving Teamwork

Creativity Adaptability

Analytical Thinking

★
Certificate
AWS Cloud
Practitioner

★
Certificate
AWS
re/Start

Practical Project

Implementation of acquired knowledge in a real-life scenario.

Supported Job Search

Our career team of 4 coaches actively run the Career Compass program that train and support job searches, and we organize regularly masterclasses and events with industry experts.

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AWS Cloud Computing – the Job Engine since 2026

Why now is the ideal time for further training

1 Why AWS Cloud Computing is an important domain in the market?

- 1. **Cloud computing jobs are growing 30% year over year**, making it one of the fastest-growing job categories in tech.
- 2. **A study on cloud computing's economic impact in Germany estimates** 316,000 new jobs will be created from 2024–2030 due to cloud adoption and digital transformation, unlocking up to €502 billion in additional economic value.
- 3. **Only 7% of business leaders say they have the capabilities to complete their prioritised cloud and AI projects** – 65% expect to upskill current teams to close the gap.

2 Labor Market Analysis 2026

A booming market: Cloud is now core digital infrastructure — a top-5 fastest-growing IT sector on LinkedIn. AWS holds ~30% of the global market, making AWS-certified pros the most sought-after cloud talent.

Core skills: Linux, networking, AWS (EC2, RDS, S3), Terraform, security, DevOps, Python.

Postings surged 2025–2026, especially in automation, AI infrastructure, security.

A talent crisis: New regulations force urgent cloud hiring; without it, companies risk failure and falling behind.

AWS certs appear in 51,000+ of 12M postings, a key hiring filter. Security Specialty demand jumped 73% in 2025. Germany's IT skills gap may double from 152,000 (2024) to 334,000 by 2030 (Bitkom).

3 Market Growth (Job postings in Germany)

Role	Postings 2025 (ø/month)	Postings 2026 (current)	% Increase	Avg. Annual Salary Germany (2026)
Technical Support Specialist	~1,200–1,500	~1,600–2,000	~27%	€47,000–€70,500 (Glassdoor)
Systems Administrator	~1,000–1,300	~1,400–1,800	~33%	€47,000–€65,000 (Glassdoor)
Cloud Automation Engineer	~500–700	~800–1,100	~50%	€58,000–€82,000 (Glassdoor)
Infrastructure Engineer	~1,200–1,500	~1,700–2,200	~40%	€54,850–€90,250 (Glassdoor)

Why Our AI Engineering Program is Essential

Our curriculum bridges the gap between foundational IT knowledge and job-ready cloud expertise. We train "Cloud Professionals" who are ready to work immediately, with hands-on labs, real AWS environments, and a certification that employers actively filter for.

Three pillars of employability

Technology & Infrastructure: From Linux, networking and security basics to AWS core services, automation and IaC with Terraform

Cloud Security & Compliance: Applying NIS2, cloud security principles and DevOps practices in real AWS environments

Certification & Project Portfolio: AWS Cloud Practitioner exam preparation plus a hands-on Capstone Project that demonstrates production-level skills

Exclusive 2026 focus: We teach Generative AI services on AWS, including Amazon Q and CodeWhisperer — so our graduates can work with the AI-powered cloud tools that modern teams are already deploying in production.

Sources & References

[LinkedIn Jobs on the Rise 2026](#)
[AWS Tech Alliance – Germany Report](#)
[Bitkom IT Skills Gap Study 2025](#)
[Gartner Cloud Spending Forecast 2025](#)
[IDC Skills Shortage Report](#)
[Live market data – LinkedIn Germany](#)
[Live market data – Glassdoor Germany](#)

Curriculum AWS Cloud Computing mit KI



Vollzeit: 16 Wochen / 4 Monate

Englisch Remote

Starte deine Karriere im Cloud-Computing mit

AWS! In unserem praxisnahen Bootcamp lernst du in wenigen Wochen alles von den IT-Grundlagen bis zur professionellen Verwaltung moderner AWS-Infrastrukturen. Dabei entwickelst du genau die Cloud-Skills, die Unternehmen heute suchen.

Unsere Coaches begleiten dich persönlich und bereiten dich auf eine Karriere als Cloud Administratorin, AWS-Spezialistin oder DevOps Engineer vor – ob mit Vorkenntnissen oder als Quereinsteiger*in. Mit Projekten, Mentoring und Bildungsgutschein legst du den Grundstein für deine Zukunft im Cloud Computing.

Zukunftsjobs für dich:

- › **AWS Cloud Engineer**
- › **Junior AWS Solutions Architect**
- › **Infrastructure Engineer**

Jahresgehalt: 54.000 – 89.000 €

Tech Stacks

Core Services (Compute)

- Elastic Compute Cloud (EC2)
- Elastic Load Balancing
- Amazon EC2 Auto Scaling

Entwickler Services / Tools

- Amazon CloudFront (CDN)
- AWS Lambda (Serverless)
- AWS Cloud9
- Simple Notification service (SNS)
- Infrastructure as Code (IAC)
- Git, GitHub
- Datenbanken: Amazon RDS, DynamoDB, Aurora
- AWS Cloudformation
- Terraform OSS & Cloud

SysOps (Systembetrieb)

- AWS CloudTrail
- AWS Systems Manager
- AWS Config
- Amazon CloudWatch Logs & Events
- Service-Integration mit Amazon Athena
- AWS Organizations
- AWS Trusted Advisor

Cloud-Speicher

- Amazon S3, Glacier, EBS, Instance Store, Amazon EFS
- AWS Storage Gateway
- Datenübertragung & Migration

Abschlussprojekt

- Capstone-Projekt

Networking

- OSI Models
- Protocols
- IP Subnetting
- Amazon Virtual Private Cloud
- Amazon Route 53 (DNS)
- Security & Troubleshooting
- VPC Connectivity Options

Cloud Security

- Data Security / Cyber Threats
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- Security Compliance
- Multi-Factor Authentication (MFA)

Best Practices

- AWS Well-Architected Framework
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- Cloud Adoption Framework
- WAF Principles (Web Application Firewall)

Künstliche Intelligenz (KI)

- Amazon Rekognition
- Amazon Q
- Prompt Engineering
- Generative AI

AWS Certification

- Prüfungsvorbereitung & Zertifizierung
- Exam Blueprint, AWS Whitepapers

Soft Skills Development

Attention to Detail

Communication Ownership

Storytelling Resilience

Stakeholder Management

Research Skills Curiosity

Time Management

Problem Solving Teamwork

Creativity Adaptability

Analytical Thinking



Praxisprojekt

Umsetzung des erworbenen Wissens in einem realen Szenario.

Unterstützte Jobsuche

Unser vierköpfiges Karriere-Team leitet aktiv das „Career-Compass“-Programm, das bei der Jobsuche schult und unterstützt; zudem organisieren wir regelmäßig Masterclasses und Veranstaltungen mit Branchenexperten.

Die hier vorgestellten Lehrpläne sind als beispielhafte Orientierung für die Kursinhalte gedacht. Anpassungen der Inhalte und des Zeitplans aus didaktischen und organisatorischen Gründen sowie zur Anpassung an den Stand der Technik und die aktuellen Anforderungen des Arbeitsmarktes bleiben ausdrücklich vorbehalten, ohne dadurch den Charakter des Kurses und die Gesamtqualität seiner Inhalte zu beeinträchtigen.

AWS Cloud Computing – der Jobmotor ab 2026

Warum jetzt der ideale Zeitpunkt für eine Weiterbildung ist

1 Warum ist AWS Cloud Computing ein wichtiges Marktsegment?

1. Cloud-Computing-Jobs wachsen jährlich um 30 % – eine der am schnellsten wachsenden Berufskategorien der Tech-Branche.

2. Eine Studie zur wirtschaftlichen Wirkung von Cloud Computing in Deutschland schätzt: Bis 2030 entstehen durch Cloud-Adoption und digitale Transformation 316.000 neue Jobs und bis zu 502 Mrd. € zusätzlicher wirtschaftlicher Wert.

3. Nur 7 % der Führungskräfte haben die nötigen Fähigkeiten für ihre priorisierten Cloud- und KI-Projekte – 65 % wollen bestehende Teams weiterbilden, um die Lücke zu schließen.

2 Labor Market Analysis 2026

Ein boomender Markt: Cloud ist zentrale digitale Infrastruktur – Top-5 am schnellsten wachsendes IT-Feld auf LinkedIn. AWS hält rund 30 % des globalen Marktes; AWS-Zertifizierte zählen zu den gefragtesten Cloud-Talenten.

Kernskills: Linux, Netzwerke, AWS (EC2, RDS, S3), Terraform, Security, DevOps, Python. Postings stiegen 2025–2026 deutlich, vor allem in Automatisierung, KI-Infrastruktur und Security.

Eine Talentkrise: Neue Regulierungen zwingen zu dringendem Cloud-Hiring – ohne Fachkräfte drohen Ausfälle und Wettbewerbsnachteile.

AWS-Zertifizierungen erscheinen in über 51.000 von 12 Mio. Postings – ein zentrales Auswahlkriterium. AWS Security Specialty stieg 2025 um 73 %. Deutschlands IT-Fachkräfte Lücke könnte sich laut Bitkom von 152.000 (2024) auf 334.000 bis 2030 verdoppeln.

3 Marktwachstum (Stellenausschreibungen in Deutschland)

Role	Postings 2025 (Ø/month)	Postings 2026 (current)	% Increase	Avg. Annual Salary Germany (2026)
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Warum unser AWS Cloud Computing Programm unverzichtbar ist

Unser Curriculum schließt die Lücke zwischen IT-Grundlagenwissen und jobbereiter Cloud-Expertise.

Wir bilden "Cloud Professionals" aus, die sofort einsatzbereit sind – mit praxisnahen Labs, echten AWS-Umgebungen und einer Zertifizierung, nach der Arbeitgeber aktiv filtern.

Drei Säulen der Beschäftigungsfähigkeit

Technology & Infrastructure: Von Linux-, Netzwerk- und Security-Grundlagen bis zu AWS-Kerndiensten, Automatisierung und Infrastructure as Code mit Terraform

Cloud Security & Compliance: Anwendung von NIS2, Cloud-Security-Prinzipien und DevOps-Praktiken in echten AWS-Umgebungen
Certification & Project Portfolio: Vorbereitung auf die AWS Cloud Practitioner-Prüfung sowie ein praxisnahes Capstone-Projekt, das produktionsreife Skills demonstriert

Exklusiver Fokus 2026: Wir vermitteln Generative-AI-Services auf AWS, darunter Amazon Q und CodeWhisperer – damit unsere Absolvent*innen mit den KI-gestützten Cloud-Tools arbeiten können, die moderne Teams bereits produktiv einsetzen.

Quellen & Referenzen

[LinkedIn Jobs on the Rise 2026](#)
[AWS Tech Alliance – Germany Report](#)
[Bitkom IT Skills Gap Study 2025](#)
[Gartner Cloud Spending Forecast 2025](#)
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