Architecting on AWS (training in English)

Course version 7.

Seminar Präsenz / Virtual Classroom 9 Termine verfügbar

24 Unterrichtseinheiten Teilnahmebescheinigung Online durchführbar

Seminarnummer: 26016

Stand: 25.11.2026. Alle aktuellen Informationen finden Sie unter https://akademie.tuv.com/s/26016

Solution architects can optimize the use of the AWS cloud through the knowledge and skills learned in the Architecting on AWS course. They understand the AWS services and their integration into a cloud solution. We provide you with the necessary expertise on best practices to integrate a service into the cloud concept.

Nutzen

This course teaches you how to:

- Make architectural decisions based on the AWS-recommended architectural principles and best practices.
- Leverage AWS services to make your infrastructure scalable, reliable, and highly available.
- Leverage AWS managed services to enable greater flexibility and resiliency in an infrastructure.
- Make an AWS-based infrastructure more efficient in order to increase performance and reduce costs.
- Use the Well-Architected Framework to improve architectures with AWS solutions.

Zielgruppe

This course is intended for solutions architects and solution design engineers.

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Anforderungen

We recommend that attendees of this course have the following prerequisites:

- Courses taken: AWS Technical Essentials (Sem.: 26013)
- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

Inhalte

Module 1: Architecting Fundamentals Review

- AWS Services and Infrastructure
- Infrastructure Models
- AWS API Tools
- Securing your infrastructure
- The Well-Architected Framework

Module 2: Account Security

- Security Principals
- Identity and Resource-Based Policies
- Account Federation
- Introduction to Managing Multiple Accounts

Module 3: Networking, Part 1

- IP Addressing
- Amazon Virtual Private Cloud (VPC), Patterns and Quotas
- Routing
- Internet Access
- Network Access Control Lists (NACLs)
- Security Groups

Module 4: Compute

- Amazon Elastic Cloud Compute (EC2)
- EC2 Instances and Instance Selection
- High Performance Computing on AWS
- Lambda and EC2, When to Use Which

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- Hands-On Lab: Build Your Amazon VPC Infrastructure

Module 5: Storage
- Shared File Systems
- Shared EBS Volumes
- Amazon S3, Security, Versioning and Storage Classes
- Data Migration Tools

Module 6: Database Services
- AWS Database Solutions
- Amazon Relational Database Services (RDS)
- DynamoDB, Features and Use Cases
- Redshift, Features, Use Cases and Comparison with RDS
- Scaling
- Caching and Migrating Data

Module 7: Monitoring and Scaling
- Monitoring: CloudWatch, CloudTrail, and VPC Flow Logs
- Invoking Events
- Elastic Load Balancing
- Auto Scaling Options and Monitoring Cost

Module 8: Automation
- CloudFormation
- AWS Systems Manager

Module 9: Containers
- Microservices
- Monitoring Microservices with X-Ray
- Containers

Module 10: Networking Part 2
- VPC Peering & Endpoints
- Transit Gateway
- Hybrid Networking

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- Route 53

Module 11: Serverless Architecture
- Amazon API Gateway
- Amazon SQS, Amazon SNS
- Amazon Kinesis Data Streams & Kinesis Firehose
- Step Functions
- Compare Amazon SQS to Amazon MQ

Module 12: Edge Services
- Amazon CloudFront
- AWS Web Application Firewall (WAF), DDoS and Firewall Manager
- Compare AWS Global Accelerator and Amazon CloudFront
- AWS Outposts

Module 13: Backup and Recovery
- Planning for Disaster Recovery
- AWS Backup
- Recovery Strategies

Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter https://akademie.tuv.com/s/26016 und profitieren Sie von diesen Vorteilen:

Schneller Buchungsvorgang
Persönliches Kundenkonto
Gleichzeitige Buchung für mehrere Teilnehmer:innen

Alternativ können Sie das Bestellformular verwenden, um via Fax oder E-Mail zu bestellen.

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