

# Advanced Architecting on AWS.

## Advanced Architecting on AWS.



Seminar



11 Termine verfügbar



Teilnahmebescheinigung



Präsenz / Virtual Classroom



24 Unterrichtseinheiten



Garantietermine vorhanden

Seminarnummer: 26002 | Herstellernummer: AWS-AA

Stand: 28.04.2024. Alle aktuellen Informationen finden Sie unter <https://akademie.tuv.com/s/26002>

Erhalten Sie Informationen zum Gestalten komplexer AWS-Lösungen, wie etwa Einbeziehung von Datenservices, Governance und Sicherheit. Wir zeigen Ihnen bewährte Methoden für das Einrichten skalierbarer, elastischer, sicherer und hoch verfügbarer Anwendungen.

## Nutzen

In dem 2ten Architecting Seminar erfahren Cloud Architekten alles notwendige um komplexe Lösungen zu planen und zu implementieren. Schauen Sie sich unbedingt unten die Details bei den umfangreichen Inhalte an.

Diese Seminar nutzt Präsentationen, Use Cases, Gruppendiskussionen, Videos, Assessments und natürlich AWS Hands On Labs.

## Zielgruppe

Dieses AWS Training wurde konzipiert für IT Professionals, die bereits Erfahrungen mit AWS-Service haben, Lösungsarchitekten und Lösungskonzeptingenieure.

## Voraussetzungen

Sie haben bereits den Kurs "Architecting on AWS" (Veranst.-Nr.: 26002) absolviert oder besitzen die Zertifizierung "AWS Certified Solutions Architect – Associate".

# Inhalte des Seminars

## Module 1: Reviewing Architecting Concepts

- Group Exercise: Review Architecting on AWS core best practices
- Hands-On Lab: Securing Amazon S3 VPC Endpoint Communications

## Module 2: Single to Multiple Accounts

- AWS Organizations for multi-account access and permissions
- AWS SSO to simplify access and authentication across AWS accounts and third-party services
- AWS Control Tower
- Permissions, access, and authentication

## Module 3: Hybrid Connectivity

- AWS Client VPN authentication and control
- AWS Site-to-Site VPN
- AWS Direct Connect for hybrid public and private connections
- Increasing bandwidth and reducing cost
- Basic, high, and maximum resiliency
- Amazon Route 53 Resolver DNS resolution

## Module 4: Specialized Infrastructure

- AWS Storage Gateway solutions
- On-demand VMware Cloud on AWS
- Extending cloud infrastructure services with AWS Outposts
- AWS Local Zones for latency-sensitive workloads
- Your 5G network with and without AWS Wavelength

## Module 5: Connecting Networks

- Simplifying private subnet connections
- VPC isolation with a shared services VPC
- Transit Gateway Network Manager and VPC Reachability Analyzer
- AWS Resource Access Manager
- AWS PrivateLink and endpoint services
- Hands-On Lab: Configuring Transit Gateways

## Module 6: Containers

- Container solutions compared to virtual machines
- Docker benefits, components, solutions architecture, and versioning
- Container hosting on AWS to reduce cost
- Managed container services: Amazon Elastic Container Service (Amazon ECS) and Amazon Elastic Kubernetes Service (Amazon EKS)
- AWS Fargate
- Hands-On Lab: Deploying an Application with Amazon EKS on Fargate

## Module 7: Continuous Integration/Continuous Delivery (CI/CD)

- CI/CD solutions and impact
- CI/CD automation with AWS CodePipeline
- Deployment models
- AWS CloudFormation StackSets to improve deployment management

## Module 8: High Availability and DDoS Protection

- Common DDoS attacks layers
- AWS WAF
- AWS WAF web access control lists (ACLs), real-time metrics, logs, and security automation
- AWS Shield Advanced services and AWS DDoS Response Team (DRT) services
- AWS Network Firewall and AWS Firewall Manager to protect accounts at scale

## Module 9: Securing Data

- What cryptography is, why you would use it, and how to use it
- AWS KMS
- AWS CloudHSM architecture
- FIPS 140-2 Level 2 and Level 3 encryption
- Secrets Manager

## Module 10: Large-Scale Data Stores

- Amazon S3 data storage management including storage class, inventory, metrics, and policies
- Data lake vs. data warehouse: Differences, benefits, and examples
- AWS Lake Formation solutions, security, and control
- Hands-On Lab: Setting Up a Data Lake with Lake Formation

## Module 11: Large-Scale Applications

- What edge services are and why you would use them
- Improve performance and mitigate risk with Amazon CloudFront
- Lambda@Edge
- AWS Global Accelerator: IP addresses, intelligent traffic distribution, and health checks
- Hands-On Lab: Migrating an On-Premises NFS Share Using AWS DataSync and Storage Gateway

## Module 12: Optimizing Cost

- On-premises and cloud acquisition/deprecation cycles
- Cloud cost management tools including reporting, control, and tagging
- Examples and analysis of the five pillars of cost optimization

## Module 13: Migrating Workloads

- Business drivers and the process for migration
- Successful customer practices
- The 7 Rs to migrate and modernize
- Migration tools and services from AWS
- Migrating databases and large data stores
- AWS Schema Conversion Tool (AWS SCT)

## Module 14: Capstone Project

- Use the Online Course Supplement (OCS) to review use cases, investigate data, and answer architecting design questions about Transit Gateway, hybrid connectivity, migration, and cost optimization

# Terminübersicht und Buchung

Buchen Sie Ihren Wunschtermin jetzt direkt online unter <https://akademie.tuv.com/s/26002> 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.