



MakeCloudWork

AWS Networking Essentials



Brief

This course is designed to provide IT professionals and administrators with the core skills to design, deploy, and manage networking solutions within the AWS cloud environment. It covers key networking concepts and practical exercises, allowing participants to build secure and scalable network architectures using AWS services.

Audience

- IT professionals with basic knowledge of cloud computing and networking
- System administrators managing AWS infrastructure
- Network architects aiming to expand their knowledge of cloud networking

Duration

- 2 Days

Delivery Mode

- Online
- In-person

Benefits

- Gain foundational understanding of AWS networking services
- Learn how to design and configure Virtual Private Clouds (VPCs), subnets, and routing
- Implement security measures with Network Access Control Lists (ACLs) and Security Groups
- Hands-on experience through labs to simulate real-world AWS networking scenarios

What to Expect

Participants will gain practical skills to:

- Design and manage VPCs, subnets, route tables, and internet gateways
- Implement and manage security with ACLs, Security Groups, and AWS Firewall
- Deploy advanced networking features like AWS Transit Gateway, Direct Connect, and Global Accelerator
- Secure and monitor network traffic using AWS services

Day 1: AWS Networking Fundamentals

Introduction to AWS Networking

- Overview of AWS Global Infrastructure
- Introduction to VPCs, subnets, and routing
- Lab: Creating and configuring VPCs and subnets

Network Security and Access Control

- Configuring Security Groups and Network ACLs for VPC security
- Introduction to AWS WAF and AWS Shield
- Lab: Configuring Security Groups, ACLs, and AWS WAF

Connecting VPCs with VPNs

- Implementing Site-to-Site VPN connections
- Lab: Setting up a Site-to-Site VPN connection for secure communication

Load Balancing and Traffic Distribution

- AWS Elastic Load Balancing (ELB) vs. AWS Global Accelerator
- Lab: Configuring ELB and setting up AWS Global Accelerator

Day 2: Advanced AWS Networking

Simulating AWS Direct Connect

- Understanding AWS Direct Connect and its use cases
- Simulating AWS Direct Connect with VPN Gateway
- Lab: Simulated Direct Connect using VPN Gateway

Optimizing Network Performance

- Implementing AWS CloudFront and Global Accelerator for performance optimization
- Lab: Deploying AWS CloudFront and configuring AWS Global Accelerator

Monitoring and Troubleshooting

- Using Amazon CloudWatch and VPC Flow Logs for monitoring
- Lab: Configuring CloudWatch and VPC Flow Logs for monitoring and security

Security Best Practices in AWS Networking

- Configuring AWS Shield for DDoS protection
- Lab: Setting up AWS Shield and reviewing secure network designs

Why Trust MakeCloudwork for Your Cloud Training Needs?

1. **Tailored Training Programs:** We customize our courses to suit the specific needs of your business, ensuring the skills you learn are directly applicable to your work.
2. **Proven Expertise:** Our team has over two decades of combined experience in cloud technologies, cybersecurity, and cloud architecture. We stay ahead of industry trends to keep you updated.
3. **Hands-on Learning:** Our labs and real-world scenarios enable you to develop practical skills, making learning more effective and engaging.
4. **Certification Guarantee:** We provide dedicated guidance and resources to help you confidently achieve your cloud certifications.
5. **Ongoing Support:** Post-training, we continue to offer resources, advice, and updates, so your learning never stops.

Let **MakeCloudwork** be your trusted partner in your cloud journey.



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