MakeCloudWork

GCP Networking Essentials

Brief

This course introduces IT professionals and administrators to networking services in Google Cloud Platform (GCP). Participants will learn how to design, deploy, and manage network architectures that are secure and scalable using GCP's cloud networking features.

Audience

- IT professionals with basic knowledge of cloud computing and networking
- System administrators managing GCP infrastructure
- Cloud network architects expanding into GCP networking

Duration

- 2 Days

Delivery Mode

- Online
- In-person

Benefits

- Gain a foundational understanding of GCP networking services
- Learn how to design and manage Virtual Private Cloud (VPC) networks, subnets, and routing
- Secure your network with Firewall Rules and Cloud Armor
- Hands-on experience through labs simulating real-world GCP networking scenarios

What to Expect

Participants will gain practical skills to:

- Design and manage VPCs, subnets, and routes in GCP

- Secure networks using firewall rules, Identity-Aware Proxy, and Cloud Armor

- Implement advanced networking features like Cloud Interconnect, Cloud VPN, and Global Load Balancing

- Monitor and optimize network performance using GCP tools

Day 1: GCP Networking Fundamentals

Introduction to GCP Networking

- Overview of GCP's global network infrastructure

- Introduction to VPC networks, subnets, and routing

- Lab: Creating and configuring VPC networks and subnets

Network Security and Access Control

- Configuring firewall rules for GCP VPC security

- Introduction to Identity-Aware Proxy (IAP) and Cloud Armor

- Lab: Configuring firewall rules and Cloud Armor

Connecting Networks with Cloud VPN

- Implementing Cloud VPN for hybrid cloud connectivity

- Lab: Setting up Cloud VPN for secure communication

Load Balancing and Traffic Distribution

- Global Load Balancing vs. Regional Load Balancing in GCP

- Lab: Configuring Global Load Balancing for web traffic management

Day 2: Advanced GCP Networking

Simulating Cloud Interconnect

- Understanding Cloud Interconnect for dedicated connections

- Simulating Cloud Interconnect with Cloud VPN

- Lab: Simulated Cloud Interconnect using Cloud VPN

Optimizing Network Performance

- Implementing Cloud CDN and Cloud Load Balancing for performance

- Lab: Deploying Cloud CDN and configuring Cloud Load Balancer

Monitoring and Troubleshooting

- Using Stackdriver Monitoring and VPC Flow Logs for monitoring and diagnostics

- Lab: Configuring Stackdriver Monitoring and VPC Flow Logs

Security Best Practices in GCP Networking

- Implementing best practices for securing GCP networks

- Configuring DDoS protection with Cloud Armor

- Lab: Configuring Cloud Armor for DDoS protection

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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