Networking in Google Cloud

Overview

Welcome to the "Networking in Google Cloud" course! This comprehensive training program is designed to provide you with the essential knowledge and skills to build and manage robust, scalable, and secure networks on the Google Cloud Platform (GCP). Whether you're a network engineer, cloud architect, or IT professional, this course will equip you with the expertise needed to optimize your network infrastructure in the cloud.

Objectives

- Configure Google VPC networks, subnets, and routers and control administrative access to VPC objects.
- Route traffic by using DNS traffic steering.
- Control access to VPC networks.
- Implement network connectivity between Google Cloud projects.
- Implement load balancing.
- Reduce latency to access content by using Cloud CDN

Prerequisites

To get the most out of this course, participants should have: Completed Google Cloud Fundamentals: Core Infrastructure or have equivalent experience. Completed Architecting with Google Compute Engine or have equivalent experience. Prior understanding of the OSI 7-layer model Prior understanding of IPv4 addressing Prior experience with managing IPv4 routes

Course Duration

- 2 Days – 16 Hours

Career Role

- Network Engineer

Creating Tailor - Made Training Programs to Meet Your Specific Goals

Discovery Process

Join us on a discovery journey to uncover your organization's unique needs. Through insightful conversations and meticulous analysis, we'll identify your training requirements.

O1

Training Framework Development

O2

We'll craft a custom roadmap to boost your team's skills, integrating advanced instructional design for engaging, comprehensive training.

Program Delivery

We'll bring your training vision to life with precision and care. Our seasoned trainers will expertly guide transformative learning experiences, fostering engagement and skill acquisition at every step.

O3

Outcome Assessment

O4

We'll continuously evaluate training effectiveness through robust methodologies, gathering and analyzing participant feedback for invaluable insights and improvement opportunities.

Cost-Benefit Analysis

We'll quantify the tangible and intangible benefits of your training investment, showcasing improved performance metrics and heightened employee satisfaction, proving the substantial returns from our partnership.

O5

Course Outline

Welcome to the "Networking in Google Cloud" course! This comprehensive training program is designed to equip you with the essential skills and knowledge needed to design, implement, and manage networking solutions in Google Cloud. Whether you're a cloud engineer, network engineer, or IT professional looking to expand your expertise in Google Cloud networking, this course will provide you with the foundational and advanced concepts required to excel in your role.

Module 1: Welcome to Networking in Google Cloud
- Lesson: Networking in Google Cloud Introduction
- Lesson: Welcome to Networking in Google Cloud: Defining and Implementing Networks

Module 2: Google Cloud VPC Networking Fundamentals
- Lesson: Module Overview
- Lesson: VPC network overview
- Lesson: IPv6
- Lesson: Route types
- Lesson: System generated routes
- Lesson: Custom static routes
- Lesson: Dynamic routes
- Lesson: BYOIP
- Lesson: Multiple network interfaces
- Lesson: DNS primer
- Lesson: Cloud DNS policies
- **Lab:** Working with Multiple VPC Networks
- **Lab:** Working with multiple VPC networks
- **Lab:** Traffic Steering Using Geolocation
- **Lab:** Cloud DNS - Traffic Steering using Geolocation Policy

Module 3: Controlling Access to VPC Networks
- Lesson: Module Overview
- Lesson: Identity and Access Management
- Lesson: Policy constraints
- Lesson: Firewall rules
- **Lab:** Controlling Access to VPC Networks
- **Lab:** Controlling Access to VPC Networks

Module 4: Sharing Networks across Projects
- Lesson: Module Overview
- Lesson: Demo: Shared VPC'
- Lesson: Demo: Shared VPC'
- Lesson: Provisioning Shared VPC
- Lesson: VPC Network Peering
- Lesson: Importing and exporting custom routes
- Lesson: Migrating a VM between networks
- **Lab:** Configuring VPC Network Peering
- **Lab:** Configuring VPC Network Peering

Module 5: Load Balancing
- Lesson: Module Overview
- Lesson: Load balancing
- Lesson: Hybrid load balancing
- Lesson: Introduction to traffic management
- Lesson: Simple routing
- Lesson: Advanced routing and routing caveats
- Lesson: Topologies and caveats
- Lesson: Cloud CDN
- Lesson: Cloud CDN Interconnect
- **Lab:** Configuring traffic management with a Load Balancer
- **Lab:** Configuring Traffic Management with a Load Balancer
- **Lab:** Caching Cloud Storage content with Cloud CDN
- **Lab:** Caching Content with Cloud CDN

Indus Tech Services

Who We Are....

Indus Tech Services is an IT company that specializes in providing comprehensive training, consulting & implementation services for software solutions designed to address the diverse business challenges faced by organizations today. With a passion for technology and a deep understanding of business processes, Indus Tech is committed to empowering businesses to optimize their operations, boost productivity, and drive sustainable growth.

Indus Tech Services and Google Cloud Partnership

At **Indus Tech Services, our partnership with Google Cloud (GCP)** provides unparalleled consulting and training services to help you harness the full potential of cloud technology. Our collaboration aims to deliver the following benefits to your organization.

- **Customized Training and Workshops:** We offer tailored training programs and workshops designed to empower your IT team and end users. Our expert-led sessions ensure your team gains the skills and knowledge needed to maximize the benefits of Google Cloud solutions.

- **Expert Consulting Services:** Our team of certified Google Cloud professionals provides strategic consulting to align your cloud initiatives with your business goals. From cloud strategy development to architectural design, we offer expert guidance to help you navigate the complexities of cloud adoption and optimization.

- **Seamless Implementation and Integration:** We specialize in the seamless implementation and integration of Google Cloud services into your existing infrastructure. Our proven methodologies and best practices ensure a smooth transition to the cloud, minimizing disruption and maximizing efficiency.

Why Choose Us...

From time to time, life serves up a profound nudge, urging us to step beyond our routines and make a difference in the world. Indus Tech Services emerged from one such compelling wake-up call. We are not just a company; we are a dedicated force with a belief in providing solutions to organizations, regardless of their size, and we infuse a human touch into everything we do.

Our Expertise

With over 25 years of collective experience navigating the intricacies of daily business transactions, irrespective of geographical, cultural, time zone, or language barriers, our team has honed their expertise to meet any challenge head-on. This wealth of experience has armed our resources with an unparalleled understanding and skill set to tackle a broad spectrum of obstacles.

Training

With two decades of unwavering commitment and a global footprint, our company is a true pioneer in the fields of linguistic, transactional, technical, and behavioural training for some of the world's largest corporate entities. Our unparalleled expertise has been refined through years of dedication and innovation, making us the go-to choice for businesses seeking transformative training solutions.

Consulting

Our company has been at the forefront of providing world-class IT consulting services to organizations spanning the globe. With an extensive and proven track record, we have honed our expertise to meet the ever-evolving technological needs and challenges faced by businesses, regardless of their scale or industry.

Implementation

Our experience covers a broad spectrum of IT implementation services, including system integration, software deployment, network architecture, cloud migration, and infrastructure setup. We understand that the successful execution of IT projects is pivotal to an organization's growth and efficiency. Therefore, we bring a depth of knowledge and a commitment to delivering results that set us apart.

To know more contact us at info@industechservices.com or call us at +91 - 99961 61170.