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IMPLEMENTING
CISCO SECURE
CLOUD CONNECT
V1.0 (ENCC)

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IMPLEMENTING CISCO SECURE CLOUD CONNECT V1.0 (ENCC)

Course Duration

4 Days

Course Price

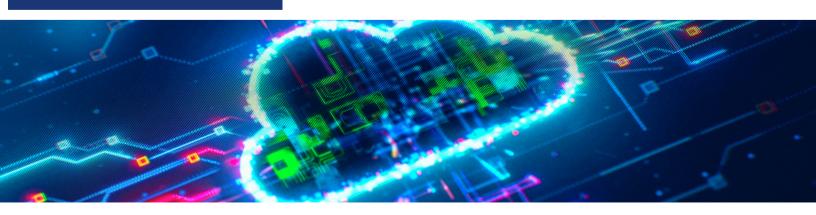
\$3,295.00 33 CLCs

Methods of Delivery

In-Person ILT Virtual ILT Onsite ILT

About this Class

The Designing and Implementing Cloud Connectivity training helps you develop the skills required to design and implement enterprise cloud connectivity solutions. You will learn how to leverage both private and public internet-based connectivity to extend the enterprise network to cloud providers. You will explore the basic concepts surrounding public cloud infrastructure and how services like Software as a Service (SaaS) can be integrated. You will practice how to analyze and recommend connectivity models that provide the best quality of experience for users. You will learn to implement both Internet Protocol Security (IPsec) and Software-Defined Wide-Area Network (SD-WAN) cloud connectivity, as well as build overlay routing with Open Shortest Path First (OSPF) and Border Gateway Protocol (BGP). Finally, you will practice troubleshooting cloud connectivity issues relating to IPsec, SD-WAN, routing, application performance, and policy application.





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How you will benefit

This class will help you:

- Develop the skills required to design and implement enterprise cloud connectivity solutions
- Learn how to apply the VPN and overlay networking technology, including Cisco Catalyst SD-WAN to extend the enterprise network to cloud providers, such as Amazon Web Services (AWS), Microsoft Azure, and Google Cloud Platform (GCP) using both private connectivity services and public internet as an underlay
- Examine the solutions for optimizing access to SaaS cloud providers and the workflows for diagnosing and troubleshooting cloud connectivity issues
- Gain knowledge for protocols, solutions, and designs to acquire professionallevel and expert-level enterprise roles

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- · Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses



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Who Should Attend

The job roles best suited to the material in this course are:

- Cloud Architects
- Cloud Administrators
- Cloud Engineers
- Cloud Network Engineers
- Cloud Automation Engineers
- Cloud Systems Engineers
- · Security Analysts
- Cloud Security Managers
- Cloud Consultants
- Cloud Application Developers
- Systems Engineers
- Technical Solutions Architect



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Objectives

After taking this course, you should be able to:

- Describe the fundamental components and concepts of cloud computing, including deployment models, cloud services, and cloud providers, to provide learners with a comprehensive overview of the subject
- Describe the options available for establishing connectivity to public cloud services, including point-to-point IPsec VPN and various Cisco Catalyst SD-WAN Cloud OnRamp deployment options
- Explain the public cloud connectivity architecture similarities and differences between different cloud service providers and explore the available connectivity options to the public cloud from a Cisco Catalyst SD-WAN environment
- · Describe private connectivity options to public cloud provider infrastructure
- Describe direct connections to different public cloud providers for private peering
- Describe connectivity solutions such as colocation, cloud exchange, and software-defined cloud interconnect providers for connecting to the public cloud infrastructure
- Describe the available options for connectivity to SaaS applications from a geographically distributed organization's premises
- Explain the emergence of DIA to optimize cloud application performance and user experience
- Describe the essential business and technical prerequisites for achieving high availability, resiliency, and scalability within an enterprise cloud connectivity network solution
- Describe AWS, Azure, and GCP native security
- Describe PCI DSS, FedRAMP, and HIPAA compliance requirements and their role in public cloud integration



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Cont. Objectives

After taking this course, you should be able to:

- Implement underlay (internet-based) connectivity to connect to the public cloud
- Configure overlay tunnels over public transport to a cloud-native gateway in AWS, Azure, and GCP and to a cloud-hosted Cisco IOS XE router
- Deploy a cloud-hosted Cisco IOS XE-based router instance and customize the cloud networking setup
- Configure OSPF and BGP routing for typical enterprise network
- Explore Cisco Umbrella SIG
- Introduce Cisco vManage Policy Architecture and centralized data policies
- Explain AAR policy components and implementation
- Understand Microsoft 365 Traffic categories and service areas
- Describe the AppQoE feature
- Describe DRE deployment considerations
- Describe how to diagnose and troubleshoot common issues for connectivity to public cloud environments using internet-based connectivity
- Introduce the BGP routing protocol used for establishing connectivity between on-premises and public cloud devices over different connection options
- Discuss BGP peering and connectivity issues with Microsoft Azure and explore various troubleshooting and test tools and techniques
- Discuss some common configuration, networking, and routing issues encountered on customer edge devices when connecting to Microsoft Azure ExpressRoute



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Course Outline

Module 1: Public Cloud Fundamentals

Module 2: Internet-Based Connectivity to Public Cloud

Module 3: Private Connectivity to Public Cloud

Module 4: SaaS Connectivity

Module 5: Resilient and Scalable Public Cloud Connectivity

Module 6: Cloud-Native Security Policies

Module 7: Regulatory Compliance Requirements

Module 8: Internet-Based Public Cloud Connectivity

Module 9: Overlay Routing Deployment

Module 10: Cisco SD-WAN Internet-Based Cloud Connectivity

Module 11: Cisco SD-WAN Cloud Security

Module 12: Cloud OnRamp for Saas

Module 13: Cisco SD-WAN Policies

Module 14: Application Quality of Experience

Module 15: Internet-Based Public Cloud Connectivity Diagnostics

Module 16: Overlay Routing Diagnostics

Module 17: Cisco SD-WAN Public Cloud Connectivity Diagnostics





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Lab Outline

Lab 1: Initial Lab Network Exploration

Lab 2: Implement IPsec Connectivity to Public Cloud Gateways

Lab 3: Implement IPsec Connectivity to Cloud-Hosted Cisco IOS-XE Routers

Lab 4: Implement Overlay Routing

Lab 5: Deploy Cloud OnRamp for Multicloud

Lab 6: Deploy Umbrella Cloud Security

Lab 7: Implement Cloud OnRamp for SaaS

Lab 8: Troubleshoot Underlay Connectivity

Lab 9: Troubleshoot Overlay Routing

Lab 10: Diagnose Cloud OnRamp for Multicloud