

CLDDES- Designing the Cisco Cloud

Overview:

Designing the Cisco Cloud (CLDDES) v1.1 is a Professional- level self-study technical course designed to help students prepare for the CCNP Cloud certification, and for Professional- level cloud roles. By completing this course you will master the skills and technologies to make design choices required to deploy and automate private and hybrid cloud infrastructure - including applications, compute, storage, network, virtualisation, and securityusing Cisco® data center and cloud technologies

Audience:

- Cloud Engineers
- Cloud Administrators
- Cloud Operations and support engineers
- Cloud Design engineers
- Cloud Infrastructure architects
- Virtualisation engineers
- CISCO Integrators and partners

Pre-requisites:

To fully benefit from this course, you should first complete the following course or obtain the equivalent level of knowledge:

- Understanding CISCO Cloud Fundamentals (CLDFND) course
- Introducing CISCO Cloud Administration (CLDADM) course
- Data center experience
- OS Experience

Module 1: Translating Requirements into Automation Designs

Lessons:

- Describing Cloud and Automation
- Gathering business requirements
- Using Automation as a Foundation of Cloud Design
- Choosing the Appropriate Solution to Automate Private or Hybrid Clouds
- Designing Appropriate Automation Tasks to Meet Requirements
- Designing Application and PaaS Using Stack Designer

Module 2: Designing a Private Cloud Infrastructure

Lessons:

- Comparing and Contrasting Private Cloud Integrated Infrastructures
- Designing Cloud Storage
- Determining Methods to Access Storage
- Determining Storage Provisioning Methods for the Cloud Environment
- Interconnecting Private Clouds
- Determining Appropriate Solutions to Automate Network Services

Module 3: Designing a Hybrid Cloud Infrastructure

Lessons:

- Comparing and Contrasting Public Cloud Architectures
- Automating Hybrid Cloud Provisioning

Duration: On-Demand

Connecting to Public Clouds

Module 4: Securing a Cloud Infrastructure

Lessons:

- Using Best Practices for Securing Cloud Infrastructure
- Designing a Secure Multitenant Environment

Module 5: Virtualisation and Virtual Network Services for Private and Hybrid Clouds

Lessons:

- Describing the Hypervisor Ecosystem
- Designing Workload Mobility for Cloud
- Designing VM Lifecycle for Cloud

Course Completion:

After completing this course, students will be able to:

- Translate business requirements into CISCO cloud Automation designs
- Define the appropriate
 Cisco Cloud solution,
 based on a broad range
 of products and
 technologies
- technologies

 Design for the selfservice user portal
- Design for the application and platform as a service (PaaS)
- Design for a private cloud infrastructure,
 automation, and courity.
- automation, and security

 Design for a hybrid cloud infrastructure,
 automation, and security
- automation, and security

 Design for virtual
 network services for
- private and hybrid clouds

 Describe VM lifecycle
 management