

IT Infra Advanced: SDDC, Cloud & Serverless

Level-3

3 Days

24 HOURS

6

MODULES

20

TOPICS

COURSE OVERVIEW

This course covers physical and software defined datacenter (SDDC) architecture, including building an SDDC with VMware products. It examines storage technologies for VMware and Hyper-V environments, attaching NAS and SAN storage, and cloud storage services across AWS, Azure and GCP, including object, file and block storage. It addresses unmanaged, managed and serverless databases and deploying SQL and NoSQL databases in the cloud, then moves through network and security topics such as virtual private networks, hybrid connectivity, firewalls, routing, layered infrastructure protection and network monitoring. It closes with deploying Windows and Linux virtual machines in virtual infrastructure and the cloud, alongside microservice architecture and serverless solution deployment.

WHO THIS COURSE IS FOR

Infrastructure Engineers

Cloud Administrators

Datacenter Architects

Network Engineers

Systems Administrators

LEARNING OBJECTIVES

- Describe physical and software defined datacenter architecture
- Build a software defined datacenter using VMware products
- Compare storage technologies across VMware, Hyper-V and cloud platforms
- Attach NAS and SAN storage to a VMware SDDC
- Deploy SQL and NoSQL databases in the cloud
- Configure virtual private networks and hybrid cloud connectivity
- Apply network security controls such as firewalls and routing
- Deploy Windows and Linux virtual machines in the cloud

6 Modules, 20 Topics

01

Data Center Implementation and Architecture

TOPICS

- Physical Datacenter and Software defined Datacenter (SDDC)
- Creating a Software defined datacenter using VMware Products

02

Storage Technologies Overview

TOPICS

- Storage technologies used in Software Defined datacenter (VMware and Hyper-V)
- Attaching NAS and SAN storage to VMware SDDC
- Storage services offered in the cloud (AWS, Azure and GCP)
- Working with Object, File and Block storages in the cloud

03

Database Technology Overview

TOPICS

- Understanding unmanaged, managed and Serverless Databases in the cloud
- Deploy SQL, No-SQL and NoSQL Databases in the cloud (AWS, Azure and GCP)

04

Network and Security

TOPICS

- Creating Virtual private networks in the cloud
- Options for establishing Hybrid connectivity from on-prem to cloud
- Network Security – Firewalls at Network, Subnet and interface
- Routing the network Traffic
- Different tools to protect the infrastructure at Layer-3, Layer-4, Layer-6 and Layer-7
- Network Monitoring

05

Operating Systems

TOPICS

- Deploy Windows and Linux OS based virtual Machines in Virtual infrastructure
- Deploy Windows and Linux OS based virtual Machines in the Cloud

06

Microservices and Serverless

TOPICS

- What is Microservice Architecture
- What is Serverless solutions
- Deploy a simple microservices based solutions in the cloud
- Deploy a simple Serverless solutions in the cloud

WHAT IS INCLUDED

Everything You Need to Succeed

- Koenig course material for every module
- Hands-on exercises throughout the course
- Delivery by certified instructors and subject matter experts
- Course completion certificate from Koenig

Who We Are

Established in 1993, Koenig Solutions is a globally recognised training provider with 35+ technology partnerships, 5,000+ training programmes and a network of certified instructors and subject matter experts, supporting individuals and enterprise teams worldwide.

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