



# VIRTULIZATION (VMware)

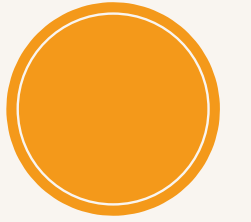
**Duration**  
**3 weeks**

**Celebrating 15 years of glorious success  
and transforming futures!**



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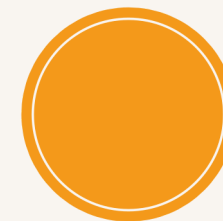
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# About Infocampus

Infocampus is a community of learners, educators, and industry professionals dedicated to creating a supportive and dynamic learning environment. Since 2009, we have specialized in IT and networking courses for both beginners and professionals, bridging the gap between theory and practice. Our mission is to prepare students for the evolving tech industry, making us a trusted choice for career advancement in technology.





# Key Features

- Hands on training for real world application
- Highly experienced and skilled faculties
- State-of-the-Art Infrastructure
- Course completion certificate
- Job Assistance



# OUR VISION



**Assessments**



**Projects**



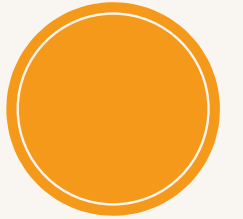
**Certification**



**Placement**



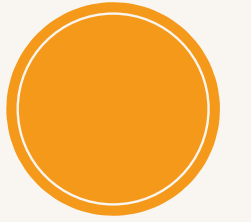
# VIRTULIZATION (VMware)



Discover the future of IT infrastructure with our Virtualization with VMware course. This dynamic program is crafted to provide you with in-depth knowledge and practical skills to harness VMware's powerful virtualization technology. Engage in hands-on projects and simulations that will teach you how to create, manage, and optimize sophisticated virtual environments. Key topics include VMware architecture, virtual machine management, advanced networking, storage solutions, and security. Dive into essential features such as vMotion, Storage vMotion, High Availability, and disaster recovery strategies. This course is ideal for IT professionals, system administrators, and virtualization enthusiasts eager to advance their expertise and career prospects.

# Course Curriculum

## 1. Architectures and Technologies



**Identify the pre-requisites and components for a vSphere implementation**

- Identify the pre-requisites and components for a vSphere implementation
- Describe vCenter Server topology
- Identify and differentiate storage access protocols for vSphere (NFS, iSCSI, SAN, etc.)
- Differentiate between vSphere Network I/O Control (NIOC) and vSphere Storage I/O Control (SIOC)
- Describe instant clone architecture and use cases
- Describe ESXi cluster concepts
- Describe vSphere Lifecycle Manager Concepts (baselines, cluster images, etc.)
- Describe the basics of vSAN as primary storage
- Describe the vSphere Trust Authority architecture
- Explain Software Guard Extensions (SGX)

# VMware Products and Solutions



- Describe the role of vSphere in the software-defined data center (SDDC)
- Identify use cases for vCloud Foundation
- Identify migration options
- Identify DR use cases
- Describe vSphere integration with VMware Skyline



# 2.Planning and Designing

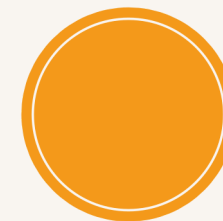


## Installing, Configuring, and Setup

- Describe single sign-on (SSO) deployment topology
- Configure VSS advanced virtual networking options
- Set up identity sources
- Deploy and configure vCenter Server Appliance
- Create and configure VMware High Availability and advanced options (Admission Control, Proactive High Availability, etc.)
- Deploy and configure vCenter Server High Availability
- Set up content library
- Configure vCenter Server file-based backup



- Analyze basic log output from vSphere products
- Configure vSphere Trust Authority
- Configure vSphere certificates
- Configure vSphere Lifecycle Manager/VMware Update Manager (VUM)
- Securely Boot ESXi hosts
- Configure different network stacks
- Configure Host Profiles
- Identify boot options
- Analyze basic log output from vSphere products
- Configure vSphere Trust Authority
- Configure vSphere certificates
- Configure vSphere Lifecycle Manager/VMware Update Manager (VUM)



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## Installing, Configuring, and Setup

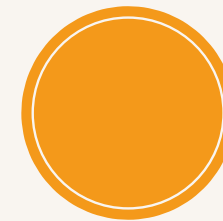
- Identify resource pools use cases
- Monitor resources of vCenter Server Appliance and vSphere environment
- Identify and use tools for performance monitoring
- Configure Network I/O Control (NIOC)
- Configure Storage I/O Control (SIOC)
- Explain the performance impact of maintaining virtual machine snapshots
- Plan for upgrading various vSphere components

# 3. Troubleshooting and Repairing

## Administrative and Operational Tasks



- Create and manage virtual machine snapshots
- Create virtual machines using different methods (Open Virtual Machine Format (OVF) templates, content library, etc.)
- Manage virtual machines
- Manage storage (datastores, storage policies, etc.)
- Create Distributed Resource Scheduler (DRS) affinity and anti-affinity rules for common use cases
- Configure and perform different types of migrations
- Configure role-based user management
- Configure and manage the options for securing a vSphere environment (certificates, virtual machine encryption, virtual Trusted Platform Module, lock-down mode, virtualization-based security, etc.)
- Configure and manage host profiles
- Utilize baselines to perform updates and upgrades
- Utilize vSphere Lifecycle Manager
- Configure alarms



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