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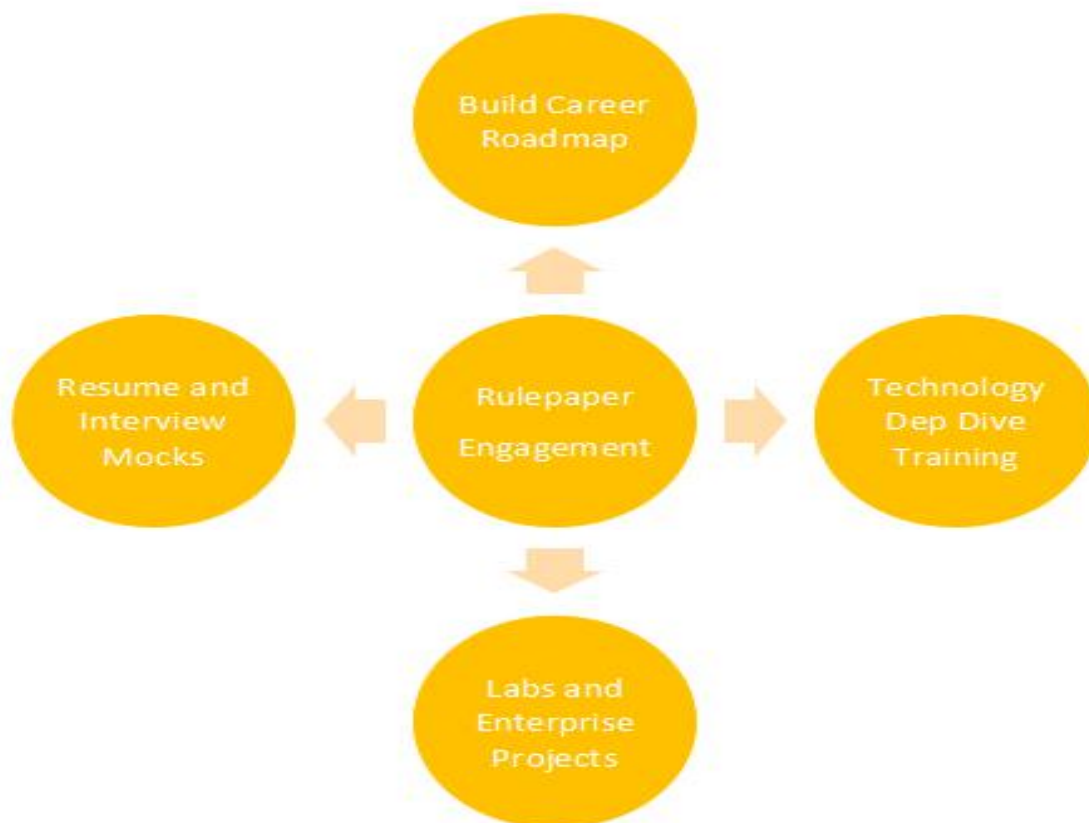
VMware

About The Course:

This training course explores installation, configuration, and management of VMware vSphere, which consists of VMware ESXi and VMware vCenter Server. This course is based on versions of ESXi and vCenter Server. Rulepaper Academy excels in providing an Enterprise Level of training with a zero theory learning approach provided by enterprise cloud and SME veterans. Thousands of students have taken their journey with us and excelled high in their dream careers, either in job or pursuing a new career. We believe in giving the learner a learning experience which becomes the foundation stone for the success of both trainee and Rulepaper.

Prerequisites:

Understanding on virtualization and system administration experience on Microsoft Windows or Linux operating systems.



All our training is 100% lab oriented.
Post completion of training we will provide an Enterprise Oriented Project.
8 AM - 8 PM Labs
On demand assistance to labs

1. Course Introduction

- ✧ Introductions and course logistics
- ✧ Course objectives
- ✧ References and resources

2. Software-Defined Data Center

- ✧ Introduce components of the software-defined data center
- ✧ Describe where vSphere fits into the cloud architecture
- ✧ Install and use vSphere Client
- ✧ Overview of ESXi

3. Creating Virtual Machines

- ✧ Introduce virtual machines, virtual machine hardware, and virtual machine files
- ✧ Create and work with virtual machines and templates

4. vCenter Server

- ✧ Introduce the vCenter Server architecture
- ✧ Deploy and configure vCenter Server Appliance
- ✧ Use vSphere Web Client
- ✧ Manage vCenter Server inventory objects and licenses

5. Configuring and Managing Virtual Networks

- ✧ Describe, create, and manage standard switches
- ✧ Configure virtual switch security and load-balancing policies
- ✧ Create, configure, and manage vSphere distributed switches, network connections, and port groups

6. Configuring and Managing Virtual Storage

- ✧ Introduce storage protocols and storage device types
- ✧ Discuss ESXi hosts using iSCSI and NFS storage
- ✧ Create and manage VMFS and NFS datastores
- ✧ Introduce VMware Virtual SAN™
- ✧ Introduce Virtual Volumes

7. Virtual Machine Management

- ✧ Use templates and cloning to deploy new virtual machines
- ✧ Modify and manage virtual machines
- ✧ Perform vSphere vMotion and vSphere Storage vMotion migrations
- ✧ Create and manage virtual machine snapshots
- ✧ Create vApps

8. Resource Management and Monitoring

- ✧ Introduce virtual CPU and memory concepts
- ✧ Configure and manage resource pools
- ✧ Describe methods for optimizing CPU and memory usage
- ✧ Use various tools to monitor resource usage
- ✧ Create and use alarms to report certain conditions or events
- ✧ Identify and troubleshoot virtual machine resource issues
- ✧ Introduce vRealize Operations Manager for data center monitoring and management

9. vSphere HA and vSphere Fault Tolerance

- ✧ Explain the vSphere HA architecture
- ✧ Configure and manage a vSphere HA cluster
- ✧ Use vSphere HA advanced parameters
- ✧ Introduce vSphere Fault Tolerance
- ✧ Enable vSphere Fault Tolerance on virtual machines
- ✧ Introduce vSphere Replication
- ✧ Use vSphere Data Protection to back up and restore data

10. Host Scalability

- ✧ Describe the functions and benefits of a vSphere DRS cluster
- ✧ Configure and manage a vSphere DRS cluster
- ✧ Work with affinity and anti-affinity rules
- ✧ Use vSphere HA and vSphere DRS together for business continuity

11. vSphere Update Manager and Host Maintenance

- ✧ Use vSphere Update Manager to manage ESXi patching
- ✧ Install vSphere Update Manager and the vSphere Update Manager plug-in
- ✧ Create patch baselines
- ✧ Use host profiles to manage host configuration compliance
- ✧ Scan and remediate hosts

12. Installing vSphere Components

- ✧ Install ESXi
- ✧ Introduce vCenter Server deployment options
- ✧ Describe vCenter Server hardware, software, and database requirements
- ✧ Discuss installation of vCenter Server Appliance and a vCenter Server instance
- ✧ Demonstrate vCenter Server installation

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