3 Days

Oracle VM Server for x86: Implementation Ed 1 NEW

The Oracle VM Server for x86: Implementation course teaches you how to enhance cloud effectiveness with rapid deployment of cloud resources and applications. You will learn how to administer, redistribute, troubleshoot and protect Oracle VM resources to ensure seamless and continuous access of your applications. Oracle VM offers a dynamic architecture which allows you to effectively deploy server virtualization to consolidate application workloads and ensure uninterrupted cloud services. Using extensive hands-on practices, this course prepares you to respond quickly to changing business conditions. Effectively administer the Oracle VM environment by using the appropriate management tool. Automate the provisioning of virtual machines. Redeploy cloud resources to meet requirements. Track and solve issues at each operational layer. Protect Oracle VM resources. Incorporate key components into your D/R strategy. Maximize Cloud Resources By taking this course, you'll learn the tools and processes to accelerate your private cloud deployments and redeploy resources effectively. Server virtualization is the first step to delivery of application and cloud services. In your Oracle VM environment, you have the ability to deploy and redeploy standardized and pre-configured software appliances to meet workload objectives and to redistribute physical and virtual resources to maximize resources for your application workload. Increase Application Availability Virtual environments introduce challenges for isolating and solving problems. Taking this course will teach you how to detect problems at every layer of the Oracle VM environment, while capturing a configuration snapshot of your environment before making changes. This is an effective way to communicate vital information about your environment to Oracle support. Protect Cloud Resources This course will also help you develop the knowledge and skills learn to identify the resources that you must protect. You'll develop an understanding of the steps to back up and recover these resources. Expert Oracle University instructors will help you explore environment-wide recovery scenarios and gain knowledge you can use as a blueprint for your disaster recovery strategy.

Course Details

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Course Outline

Oracle VM Manager UI and Oracle VM CLI Review the major components of Oracle VM Discuss the management interfaces to the Oracle VM Manager application Describe the control elements and authentication for the Oracle VM Manager UI Customize the Oracle VM Manager UI session Access the Oracle VM CLI and and view the Oracle VM CLI logs Learn how to use the Oracle VM CLI commands and custom commands Customize the Oracle VM CLI session Use the Oracle VM CLI with simple scripts and by using Expect scripts Oracle VM Web Services Introduce the Oracle VM Web Services and describe the role of the Oracle VM Web Services Describe the REST interaction for the Oracle VM Web Services Learn basic authentication with REST interaction Demonstrate a GET and POST request with REST by using Python examples Describe the SOAP interaction to the Oracle VM Web Services Discuss REST vs SOAP usage for Oracle VM Web Services Examine the structure of the Oracle VM Web Services SDK file Managing Virtual Machines Discuss Oracle VM virtualization modes and how to convert an HVM guest to PVM mode Learn how to create a virtual machine with installation media and by importing templates, assemblies, virtual machines and virtual Learn to use the P2V tool to create new templates from legacy hosts Use cloning and migration Discuss Inbound Migration Lock as a way to protect resources of a running virtual machine Make changes to your virtual machines: Add network devices, disk resources and CPU and memory resources Oracle VM Guest Additions Describe the Oracle VM Guest Additions feature and lists its benefits Install the Oracle VM Guest Additions in a virtual machine Use the messaging facility provided by the Oracle VM Guest Additions Explain the role of the Oracle VM Template configuration feature Learn the role of scripts and targets with Oracle VM Template configuration feature Prepare a virtual machine for first-boot configuration and test the configuration Operations Discover and rediscover Oracle VM servers and explain the discovery process Remove Oracle VM servers from server pools, delete Oracle VM servers and re-install Oracle VM Servers Perform operations on server pools: Add or remove Oracle VM servers, cluster operations and fencing Discuss repository ownership: Oracle VM Manager ownership and cluster ownership Present/unpresent repositories to Oracle VM servers, create repository exports, delete repositories, release ownership of a repository Perform refresh operations in the Oracle VM environment Troubleshooting Use various sources to identify problems: Logs, job details and events Perform health check on Oracle VM Manager and Oracle VM server components View and modify iSCSI multipathing information on Oracle VM servers Run the VMPinfo3 tool and view the tool report Configure Kdump and netconsole on Oracle VM servers Generate core dumps automatically and manually for virtual machines Configure serial console access for Oracle Linux guests Backup and Restore - D/R Concepts Identify components that need to be backed up and discuss guidelines for backup operations Backup and restore the Oracle VM Manager MySQL database Recover from the loss of the Oracle VM Manager MySQL database Learn the Oracle VM-centric and guest-centric approaches to protecting virtual machines Use recovery scenarios to learn how to rebuild your Oracle VM environment Learn the importance of cluster IDs and network IDs during recovery operations Apply recovery information to D/R design

Who Should Attend

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