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Exam 2V0-21.20



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clones, instant clones eliminate some steps (such as reconfiguration and checkpoints) and replace other steps to greatly reduce the provisioning time. Other use cases are large deployments of identical virtual servers in the cloud and situations where you want to reduce boot storms and provisioning times.

During an instant clone (vmFork) operation, the system quiesces and stuns the source virtual machine, creates and transfers a checkpoint, customizes the destination MAC address and UUID, and forks the memory and disk. The destination virtual machine shares the parent virtual machine's disk and memory for reads. For writes, the destination machine uses copy on write (COW) to direct disk and memory changes to delta files and private memory space.

The requirements for instant clones may depend on the software applications that use the API to perform the cloning operations. For example, VMware Horizon 7.1 requires static port binding, ESXi 6.0 Update 1 or later, and a distributed virtual switch.

Instant cloned virtual machines are fully independent vCenter Server inventory objects. You can manage instant clone destination virtual machines as you would regular virtual machines, without any restrictions.

Exam Preparation Tasks

As mentioned in the section “How to Use This Book” in the Introduction, you have some choices for exam preparation: the exercises here, Chapter 15, “Final Preparation,” and the exam simulation questions on the companion website.

Review All Key Topics

Review the most important topics in this chapter, noted with the Key Topics icon in the outer margin of the page. Table 5-5 lists these key topics and the page number on which each is found.



Table 5-5 Key Topics for Chapter 5

Key Topic Element	Description	Page Number
Procedure	Host profile workflow	171
List	Content library limitations	172
List	Files in a virtual machine snapshot	175
List	Use cases for snapshots	177
List	Requirements for cross-vCenter Server migrations	187
Section	Virtual machine migration limitations	187
Section	vMotion requirements	189
Section	Instant clones	195

Complete Tables and Lists from Memory

Print a copy of Appendix B, “Memory Tables” (found on the companion website), or at least the section for this chapter, and complete the tables and lists from memory. Appendix C, “Memory Tables Answer Key” (also on the companion website), includes completed tables and lists to check your work.

Define Key Terms

Define the following key terms from this chapter and check your answers in the glossary:

vSphere inventory, data center, cluster, resource pool, template, vApp, host profile, content library, virtual machine snapshot, VMware Tools, vMotion, Storage vMotion

Review Questions

1. Which of the following is not a valid use case for virtual machine snapshots?
 - a. Rolling back guest OS changes
 - b. Recovering from the accidental deletion of a flat file
 - c. Troubleshooting
 - d. Linking a clone in a vRA blueprint
2. You are troubleshooting a virtual machine by using the vSphere Client. Which of the following is not a valid debugging and statistics advanced setting?
 - a. Record Trivial
 - b. Record Debugging
 - c. Run Normal
 - d. Record Statistics
3. You want to migrate a virtual machine with a 2.5 TB virtual disk. What is the minimum ESXi version that supports this?
 - a. 6.0
 - b. 6.5
 - c. 6.7
 - d. 7.0
4. You want to hot migrate a virtual machine from one ESXi host and VMFS datastore to another ESXi host and VMFS datastore. Which of the following statements is true?
 - a. This operation is not supported in vSphere 7.0.
 - b. The virtual disk data is transferred over the management network.
 - c. The virtual disk data is transferred over the vMotion network.
 - d. You must perform the operation in two separate steps: vMotion and Storage vMotion.

5. You are supporting thousands of virtual machines in a vSphere environment. Which of the following features is associated with vmFork?
- a. Instant clone
 - b. Linked clone
 - c. Snapshot
 - d. Cross-vCenter vMotion



This chapter covers the following topics:

- vSphere Add-ons
- vRealize Suite
- Desktop and Application Virtualization
- Replication and Disaster Recovery
- Private Public and Hybrid Clouds
- Networking and Security

This chapter contains information related to Professional VMware vSphere 7.x (2V0-21.20) exam objectives 2.2, 2.3, 2.4, and 2.5.

VMware Product Integration

This chapter provides information on vSphere 7.0 integration with other VMware products, including vRealize Suite, Site Recovery Manager, Horizon, and NSX.

“Do I Know This Already?” Quiz

The “Do I Know This Already?” quiz allows you to assess whether you should study this entire chapter or move quickly to the “Exam Preparation Tasks” section. In any case, the authors recommend that you read the entire chapter at least once. Table 6-1 outlines the major headings in this chapter and the corresponding “Do I Know This Already?” quiz questions. You can find the answers in Appendix A, “Answers to the ‘Do I Know This Already?’ Quizzes and Review Questions.”

Table 6-1 “Do I Know This Already?” Section-to-Question Mapping

Foundation Topics Section	Questions
vSphere Add-ons	1
vRealize Suite	2-3
Desktop and Application Virtualization	4-6
Replication and Disaster Recovery	7
Private Public and Hybrid Clouds	8-9
Networking and Security	10

1. You want to streamline the development of modern applications using a familiar single stack for containers and virtual machines. Which of the following products should you use?
 - a. VMware Horizon
 - b. VMware App Volumes
 - c. VMware AppStack
 - d. vSphere with Tanzu