CHAPTER **3**

Storage Networking

Seolito Rodriguez, MBA
CISSP, CRISC, CISM, CISA, Pentest+, Security+, MCSA, MCT, VCP, ITIL Foundation,
Cisco CCNA, Network+ & A+

https://cybersecurityhoy.com

Storage Networking

In this chapter, you will learn about

- Storage types and technologies

- Storage access protocols

- Storage provisioning

- Storage protection

Figure 3-1 Three major storage types: DAS, SAN, and NAS
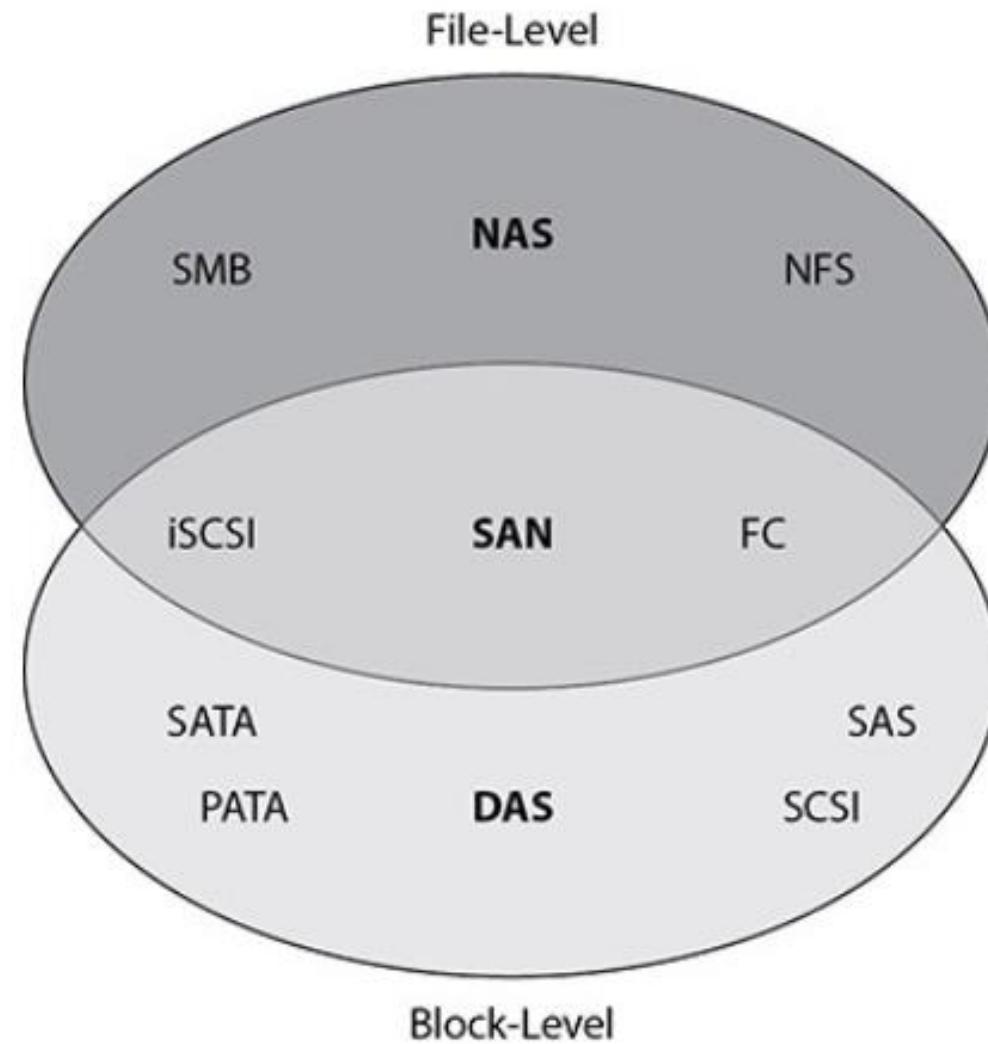
Figure 3-2 Using iSCSI over an IP network
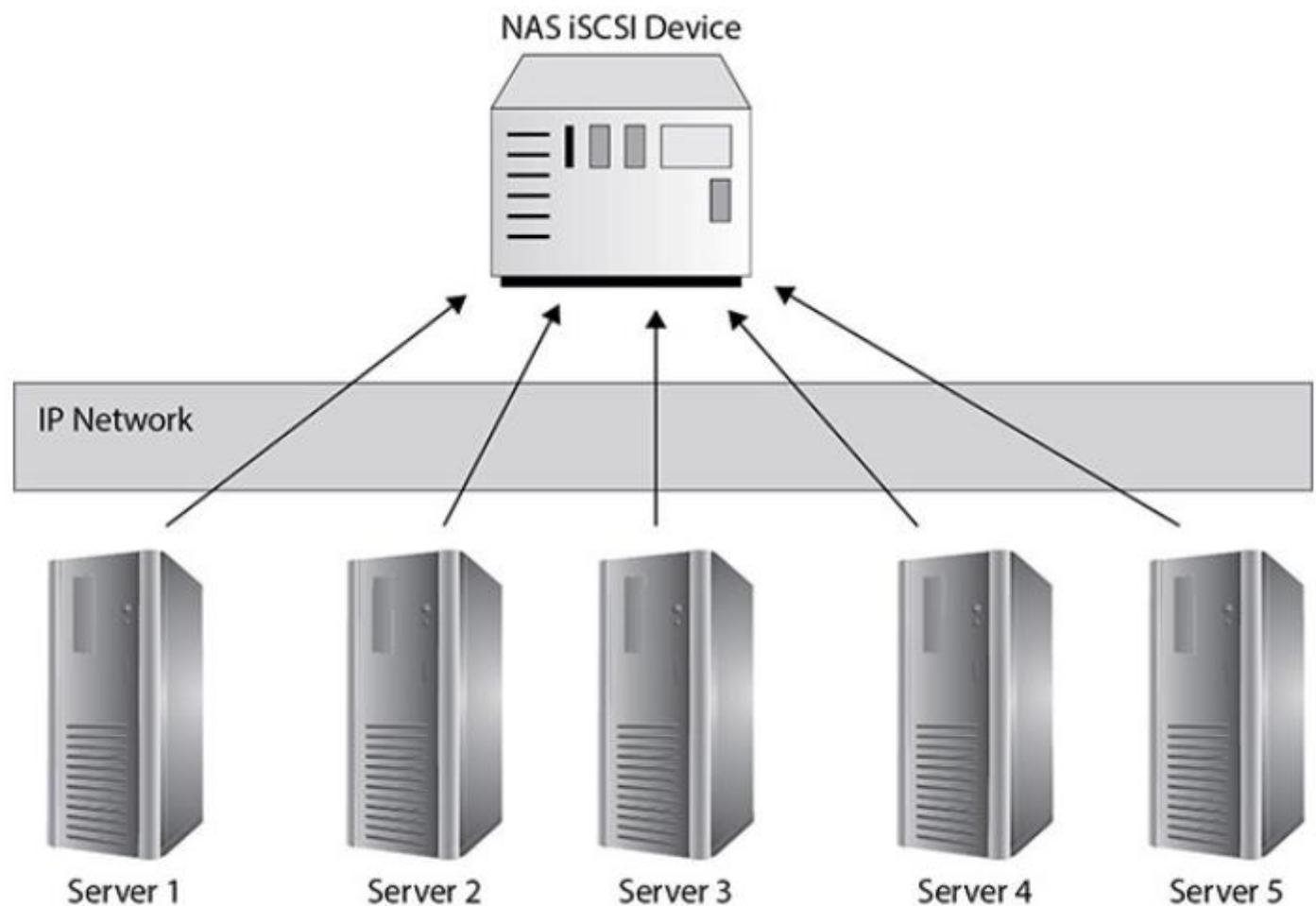
Figure 3-3 Tiered storage pool

5TB SLC SSD

10TB MLC SSD

20TB TLC SSD

50TB 15k SAS

85TB Tiered Storage Pool
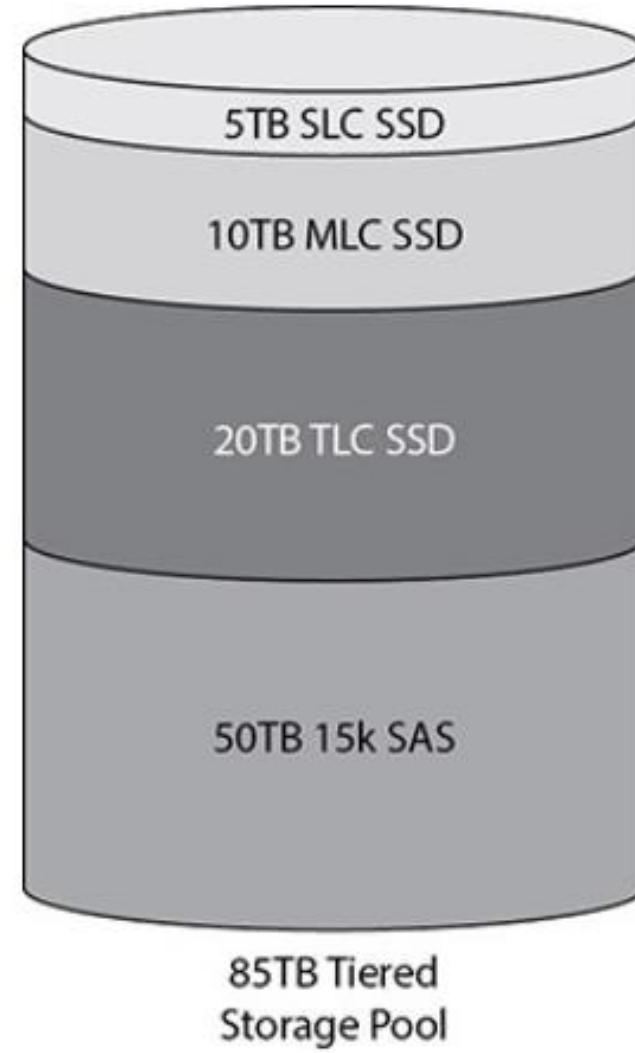
Figure 3-4 Zoning using a Fibre Channel switch
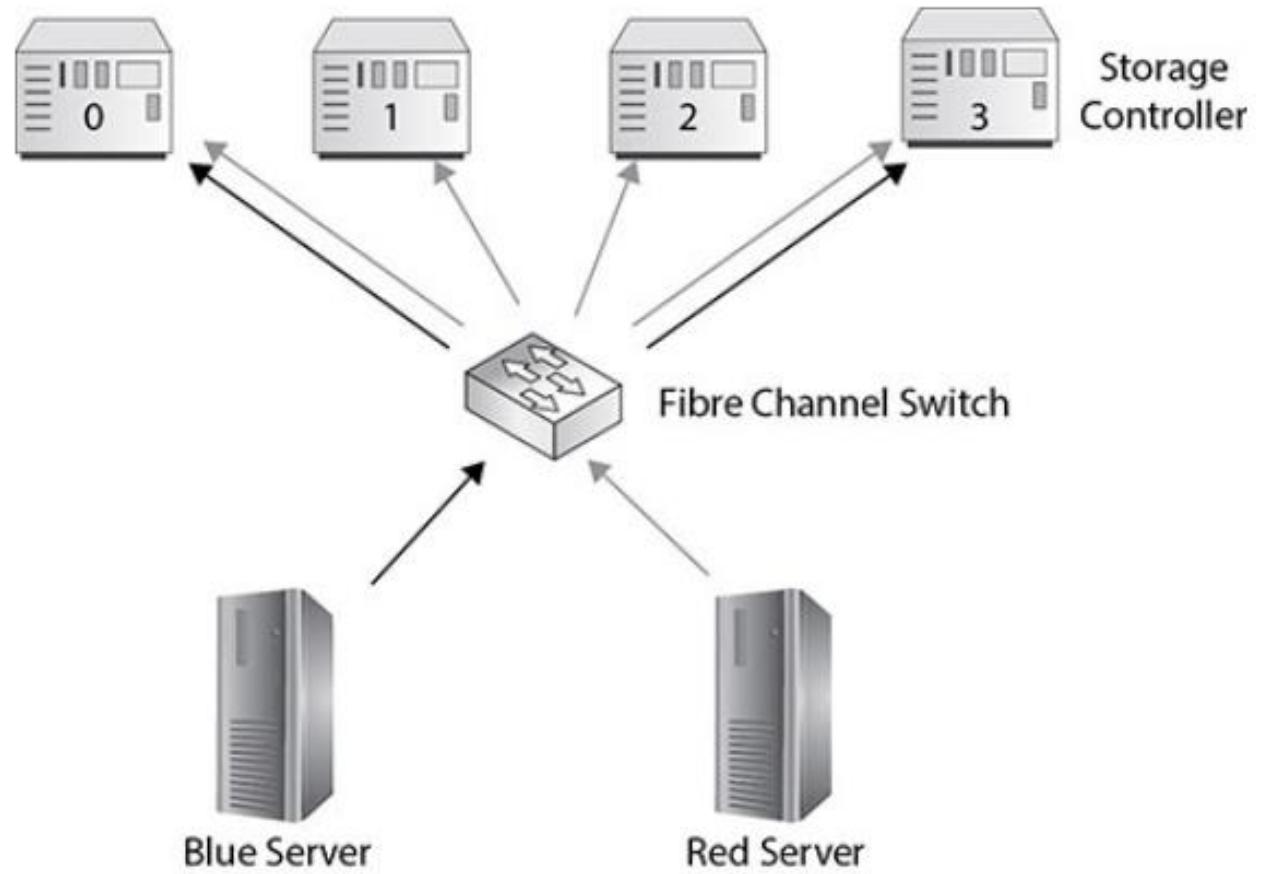
Figure 3-5 LUN masking using the storage controller
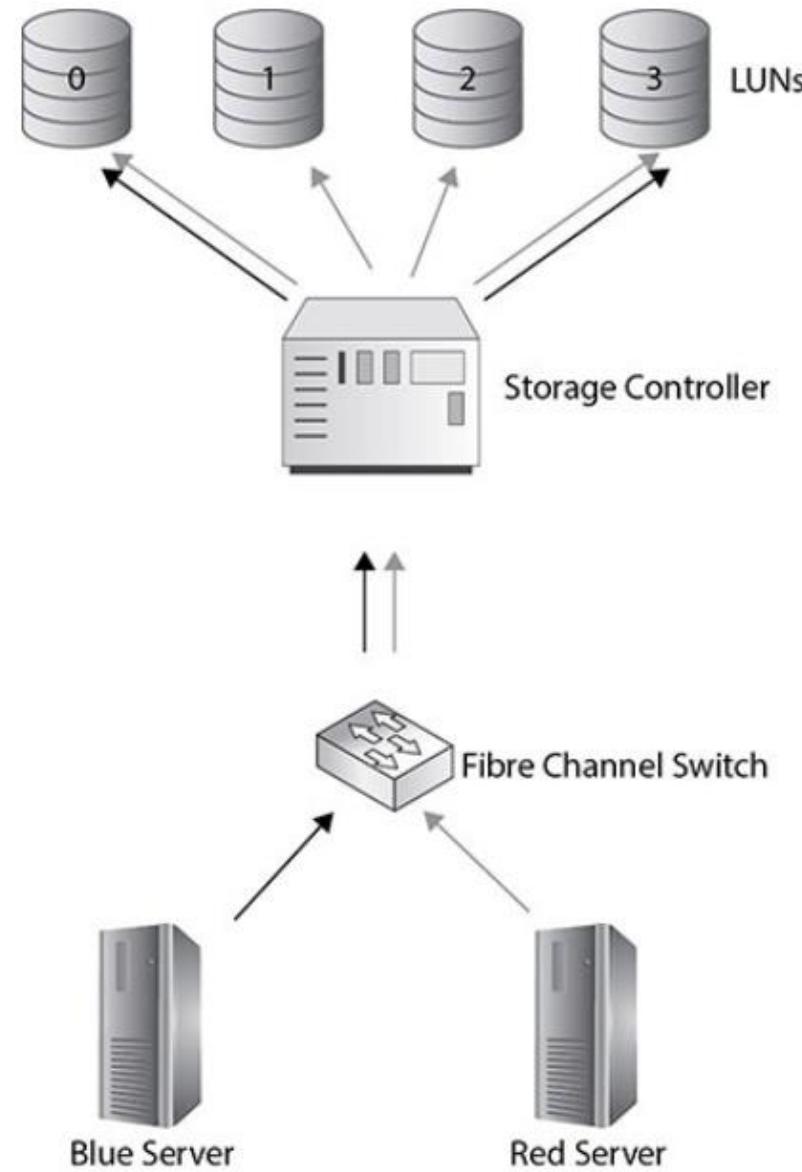
Figure 3.6 Multiregional replication
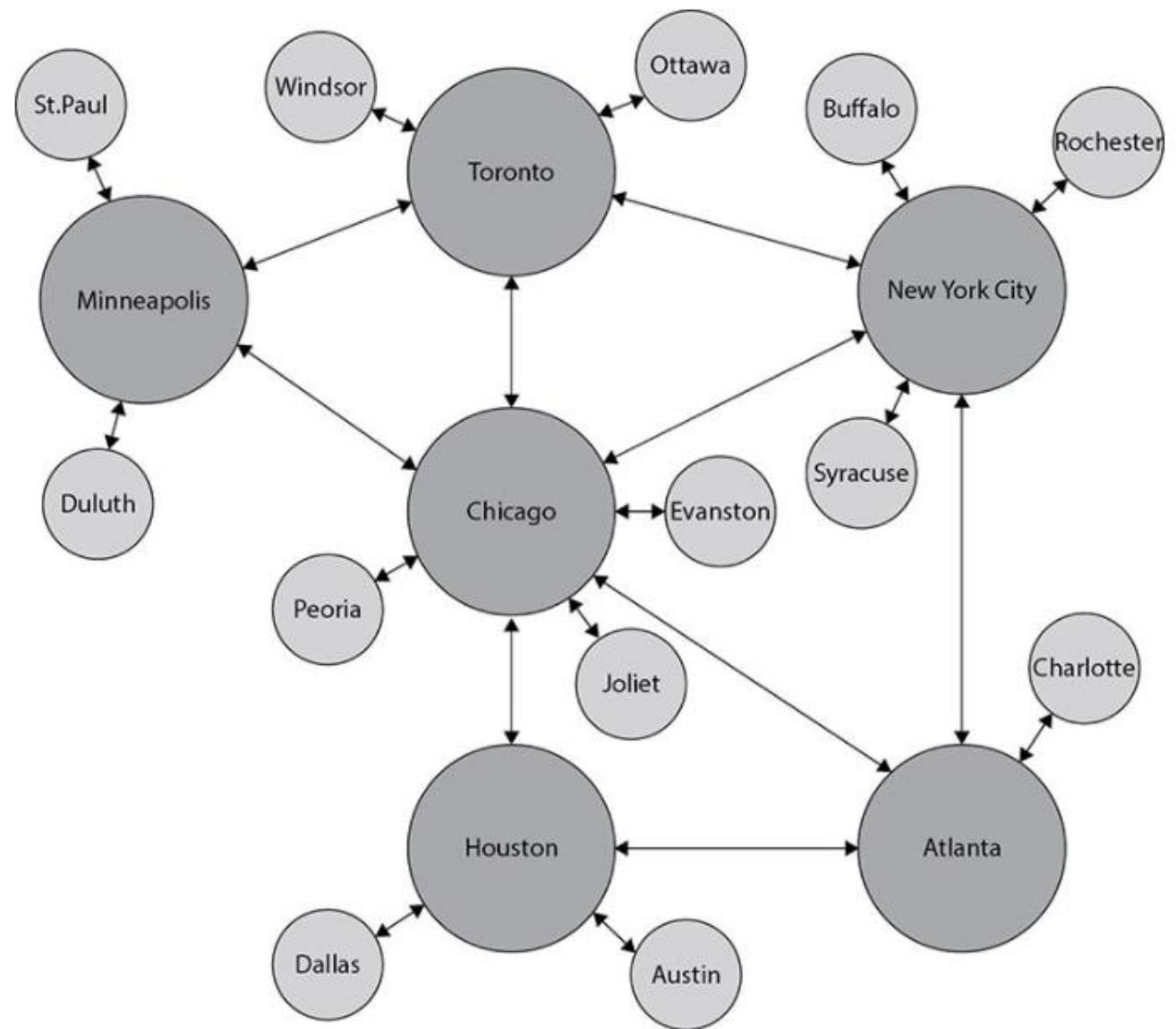
Figure 3-7 Synchronous and asynchronous multiregional replication
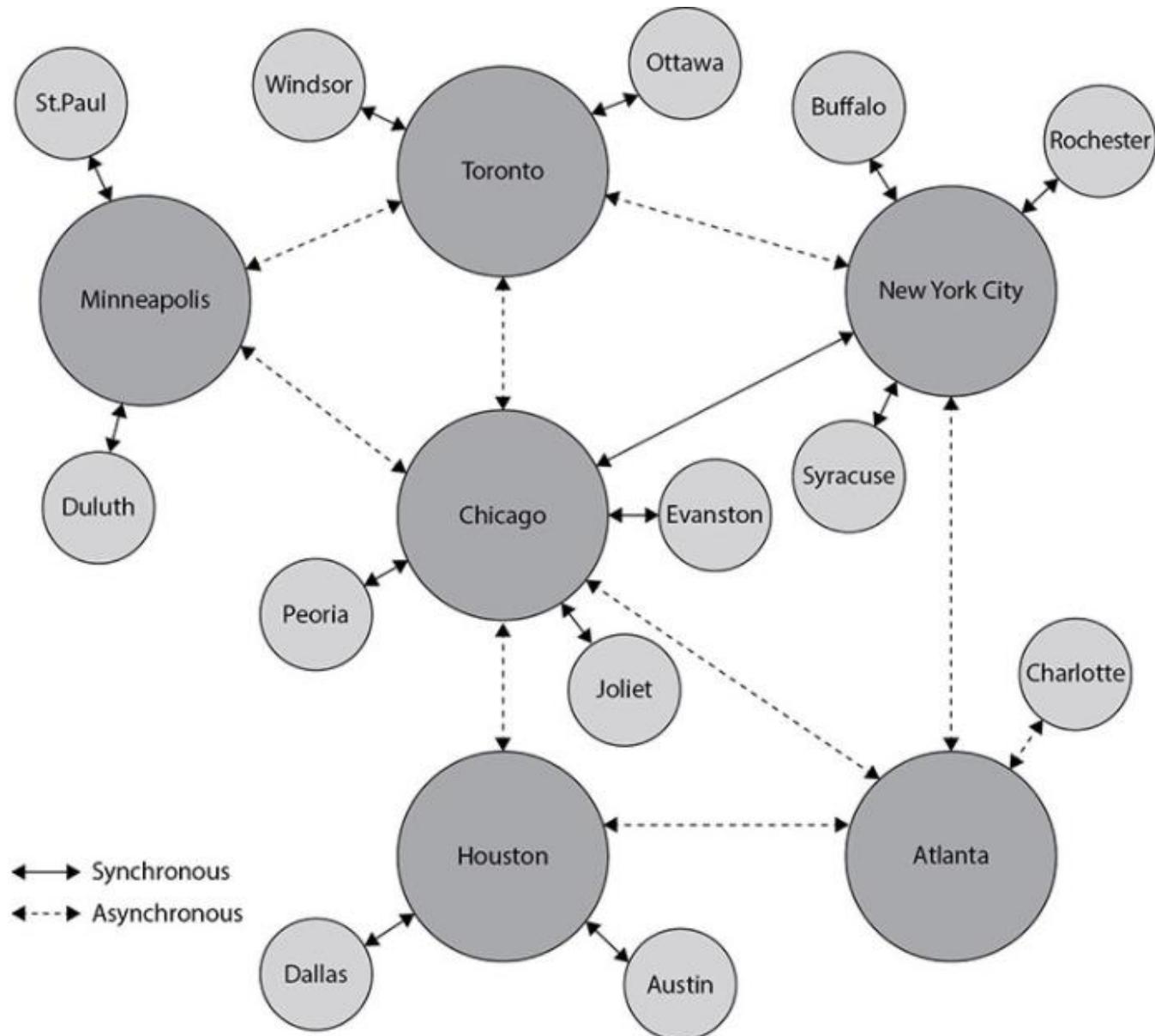
1. Which type of storage system is directly attached to a computer and does not use a storage network between the computer and the storage system?

A. NAS

B. SAN

C. DAS

D. Network share

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2. Which of the following characteristics describe a network attached storage (NAS) deployment?

A. Requires expensive equipment to support

B. Requires specialized skill sets for administrators to support

C. Delivers the best performance of any networked storage technologies

D. Provides great value by utilizing an existing network infrastructure

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3. Which statement would identify the primary difference between NAS and DAS?

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B. DAS provides fault tolerance.

C. DAS does not connect to networked storage devices.

D. NAS uses an HBA and DAS does not.

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6. Which of the following connects a server and a SAN and improves performance?

A. Network interface card

B. Host bus adapter

C. Ethernet

D. SCSI

7. Which of the following protocols allows Fibre Channel to be transmitted over Ethernet?

A. HBA

B. FCoE

C. iSCSI

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9. Which of the following allows you to connect a server to storage devices with speeds of 128 Gbps?

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11. Warren is a systems administrator working in a corporate data center, and he has been tasked with hiding storage resources from a server that does not need access to the storage device hosting the storage resources. What can Warren configure on the storage controller to accomplish this task?

A. Zoning

B. LUN masking

C. Port masking

D. VLANs

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12. Which of the following would increase availability from a virtualization host to a storage device?

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B. Multipathing

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A. BLOB

B. Replica

C. Metadata

D. Object ID

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14. Which of the following allows you to provide security to the data contained in a storage array?

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15. Which provisioning model would you use if data is added quickly and often? The solution must ensure consistent performance.

A. Thin provisioning

B. Thick provisioning

C. Overprovisioning

D. Encryption

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16. Which HA solution involves multiple servers that each service requests concurrently but can assume the load of one member if that member fails?

A. Active-passive

B. Active-active

C. Passive-passive

D. Passive-active

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A. Object storage

B. Low latency

C. Multipathing

D. High-speed links

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Write the <u>first review</u>

By <u>Eric A. Vanderburg</u>
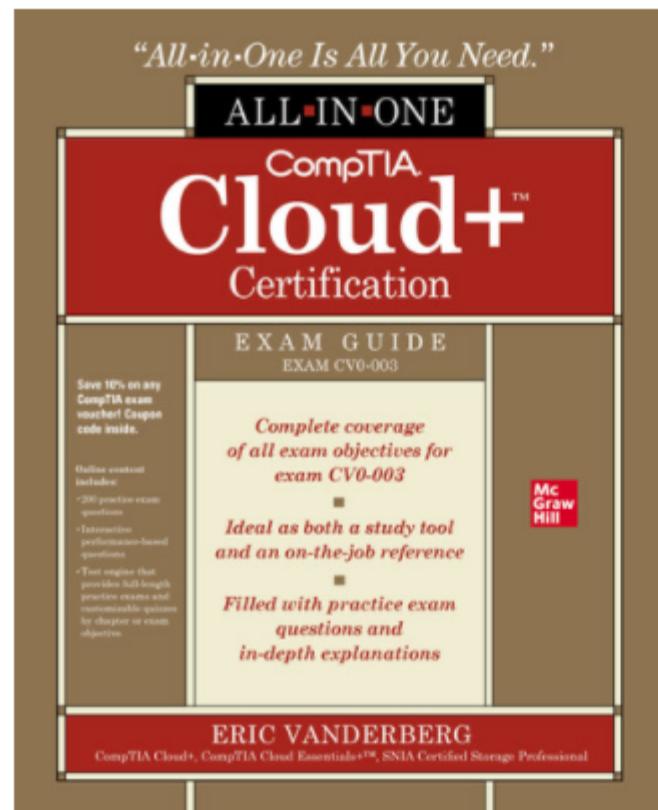
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