C9020-562^{Q&As}

IBM Storwize Family Technical Solutions V4

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QUESTION 1

Which statement describes the full set of enhancements of IBM Spectrum Protect for the IBM Storwize Family?

A. IBM data encryption and security data solutions provide protection for virtual, physical, cloud and software defined environments, as well as crash consistent snapshots.

B. IBM data protection and data recovery solutions provide protectionfor cloud and software defined environments, as well as core applications and remote facilities.

C. IBM data duplication and data reduction solutions provide protection for virtual, physical, cloud and software defined environments, as well as multisite copies.

D. IBM data protection and data recovery solutions provide protection for virtual, physical, cloud and software defined environments, as well as application consistent snapshots.

Correct Answer: D

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IBM Spectrum Protect deployment options include cloud services, integrated appliances and capacity-

based solution bundles.

Application-aware and Virtual Machine optimized options enable customized data protection for critical

workloads.

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IBM Spectrum Protect Snapshot manages application-aware snapshots on EMC, Hitachi, NetApp, IBM

and VSS-compatible Windows storage.

References: http://www-03.ibm.com/software/products/en/spectrum-protect-snapshot

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QUESTION 2

A customer is looking to replicate data to its disaster recovery location. The customer has gathered data about I/O and throughput to the storage.

Which piece of information is needed to properly size the bandwidth needed between the two locations?

A. Peak write IOPS

B. Peak write MBps

C. Peak read IOPS D. Peak read MBps

Correct Answer: A

Sizing the systems for replication

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Metro Mirror has the least impact to the amount of IO a system can handle, as it has the lowest overhead.

*

Regular Global Mirror further lowers the maximum throughput of the system, and the increase in host write response time depends on the quantity of IO being replicated via Global Mirror. The main cause of increased write response time is spikes of host write IO that there\'s insufficient partnership bandwidth to replicate instantly, but we have seen cases where the increased overhead of the Global Mirror processing has made a workload unusable.

References:https://www.ibm.com/developerworks/community/blogs/storwizecopyservices/e ntry/sizingreplication?lang=en

QUESTION 3

A company just completed an acquisition and now has FC attached storage from multiple vendors. The environments are isolated and storage administrators are unable to share resources across these environments.

Which IBM Storwize solution feature helps improve this situation?

A. Real-time Compression

B. Encryption

C. Tiered Storage Optimizer

D. External Virtualization

Correct Answer: D

By using external virtualization, you can consolidate FC SAN-attached disk controllers from various vendors into pools of storage. In this way, the storage administrator can manage and provision storage to applications from a single user interface and use a common set of advanced functions across all of the storage systems under the control of the IBM Storwize.

References: Implementing the IBM Storwize V5000 Gen2 (including the Storwize V5010, V5020, and V5030), page51 http://www.redbooks.ibm.com/redbooks/pdfs/sg248162.pdf

QUESTION 4

A customer wants to create an IBM SVC Enhanced Stretch Cluster between two data centers.

Which license is required to create this configuration?

A. Spectrum Control

B. Spectrum Virtualize

C. FlashCopy

D. Metro Mirror

Correct Answer: B

The Enhanced Stretched Cluster configuration provides a continuous availability platform, whereby hostaccess is maintained during the loss of any single failure domain. This availability is accomplished through the inherent active/active architecture of IBM Spectrum Virtualize and SAN Volume Controller along with the use of volume mirroring.

References: IBM Spectrum Virtualize and SAN Volume Controller Enhanced Stretched Cluster with VMware, page 28

References:http://www.redbooks.ibm.com/redbooks/pdfs/sg248211.pdf

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QUESTION 5

What must be configured and installed to use VMware virtual volumes (vVols) with IBM Storwize solutions?

A. IBM Spectrum Control Base Edition and the correct host type set on the Storwize

B. IBM Spectrum Virtualize and a vCenter plug in onthe Storwize

C. IBM Spectrum Control Base Edition and child pools on the Storwize

D. IBM Spectrum Control Standard Edition and a plug in on the Storwize

Correct Answer: A

Three core software components are needed for a successful implementation of VVols. The minimum code level required for each component is provided in the following list:

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 IBM Spectrum Control Base Edition (SCB) version 2.2.1 (or higher)

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 Compatible storage system running IBM Spectrum Virtualize version 7.6.0 (or higher

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 VMware vSphere 6.0 (or higher):

?VMware ESXi version 6.0

?VMware vCenter Server 6.0 or vCenter Server Appliance (vCSA) 6.0 (vSphere Web Client 6.0)

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We use the term VVols-enabled host to describe a host that meets the following requirements:

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 VMware ESXi (ESXi) version 6.0 or later installed.

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 Registered with the storage system with host type set to VVol. Note that in the CLI, the VVol host type is referred to as

adminlun. References: Configuring VMware Virtual Volumes for Systems Powered by IBM Spectrum Virtualize , page 6, page 11 http://www.redbooks.ibm.com/redbooks/pdfs/sg248328.pdf

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