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**Dell**

**D-PVM-OE-01**

**Dell PowerMax Operate v.2**

**Exam**

**Exam Topic: 1, Multiple Choice Questions**

**QUESTION: 1**

What are two characteristics of a SnapVX Linked Target?

- A. They are read/writable (R/W).
- B. They support a maximum of 1024 snaps per volume
- C. They cannot send data to SRDF
- D. They can be made secure

**Answer(s):** A, C

**Explanation:**

Step by Step Comprehensive Detailed

**SnapVX Linked Targets:** SnapVX is a snapshot technology used in Dell PowerMax storage arrays. A linked target is a volume that provides read/write access to a specific point-in-time copy (snapshot) of a source volume.

**Read/Write Access:** Unlike traditional snapshots, which are typically read-only, SnapVX linked targets allow modifications. This makes them suitable for use cases like testing, development, and data analysis where changes need to be made to a copy of the data without affecting the original source.

**Secure Snapshots:** SnapVX offers the capability to create "secure snapshots." These snapshots are write-protected and prevent any modifications or deletion, ensuring data integrity and protection against accidental or malicious changes.

Why other options are incorrect:

B . They support a maximum of 1024 snaps per volume: This is partially correct. While a source volume can have up to 1024 snapshots, this limit includes all types of snapshots (manual, automated, and legacy), not just linked targets.

B . They cannot send data to SRDF: This is incorrect. SnapVX linked targets can participate in SRDF (Symmetrix Remote Data Facility) replication, allowing for disaster recovery and data mobility.

Reference and documents of Dell's public documentation for PowerMax Operate v.2:

**Dell Solutions Enabler 10.0.0 TimeFinder SnapVX CLI User Guide:** This guide provides detailed information about SnapVX features and commands, including how to create, link, and manage snapshots. It confirms the read/write capability of linked targets and the ability to create secure snapshots. You can find this document on the Dell Support website by searching for "Solutions Enabler TimeFinder SnapVX CLI User Guide."

**Dell PowerMax Family: Essentials and Best Practices Guide:** This guide offers a comprehensive overview of PowerMax technologies, including SnapVX. It highlights the benefits of SnapVX linked targets for various use cases. You can find this document on the Dell Support website by

searching for "PowerMax Family Essentials and Best Practices Guide."

**QUESTION: 2**

Which three device types can be managed using Solutions Enabler and Unisphere?

- A. SRDF Thin Devices (RDF1 or RDF2)
- B. Thin BCV Devices (BCV+TDEV)
- C. Internal Thin Devices (Int+TDEV)
- D. Data Devices (TDATs)
- E. Thin Devices (TDEV)

**Answer(s):** A, C, E

**Explanation:**

Step by Step Comprehensive Detailed

Dell PowerMax storage arrays utilize different device types for various purposes. Solutions Enabler (SYMCLI) and Unisphere for PowerMax are management tools that can interact with these device types. Here's a breakdown:

**SRDF Thin Devices (RDF1 or RDF2):** These devices are specifically used for SRDF (Symmetrix Remote Data Facility) replication. RDF1 devices represent the local copy of data in an SRDF relationship, while RDF2 devices represent the remote copy. Both Solutions Enabler and Unisphere can manage these devices to configure and monitor SRDF replication.

**Internal Thin Devices (Int+TDEV):** These are thin provisioned devices that reside within the PowerMax storage array. They are used for general storage purposes and can be managed by both Solutions Enabler and Unisphere for tasks like provisioning, allocating capacity, and monitoring performance.

**Thin Devices (TDEV):** This is a general term for thin provisioned devices in PowerMax. Thin provisioning allows for efficient storage utilization by allocating capacity on demand. 1 Both Solutions Enabler and Unisphere can manage these devices.

<https://www.n-able.com/blog/thin-provision-vs-thick-provision#:~:text=Thin%20provisioning%20allocates%20disk%20space,need%20at%20any%20given%20time.>

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Why other options are incorrect:

**B . Thin BCV Devices (BCV+TDEV):** BCV (Business Continuance Volume) devices are used for creating point-in-time copies for disaster recovery. While Solutions Enabler can manage BCV devices, Unisphere for PowerMax has limited functionality for managing them directly.