

EXAM DESCRIPTION

Hitachi Vantara Certified Expert Replication Solutions Implementation HCE-5710 Exam

Exam Type

Certification

Format

Proctored, closed book exam

Credential

Hitachi Vantara Certified Expert – Replication Solutions Implementation

Validity 3 years

Delivery

Kryterion Webassessor System

Questions 60

Passing Score 70%

Duration 90 minutes; 120 minutes for non-English-speaking countries

Cost

US \$225 or equivalent in local currency (plus local tax, depending on location)

Supporting Material

 TXI6752 Managing InSystem Replications (2-day ILT)

(for additional courses see page 2)

This test is designed for Hitachi Vantara employees and partners who deploy and integrate Hitachi Vantara replication solutions in customer environments. The test will validate that the successful candidate has the knowledge and skills to implement and support replication solutions that run on Hitachi storage systems. This includes the thorough understanding of deployment and integration procedures and best practices, and of the tools and techniques related to supporting the solutions. This test covers data replication software products including Hitachi Universal Replicator, Hitachi Thin Image, Hitachi ShadowImage In-System Replication, Hitachi TrueCopy Remote Replication, Hitachi Replication Manager, and global-active device.

Audience: Hitachi Vantara Employee and Partner Implementation and Integration Professionals

Hitachi Vantara replication solutions implementation personnel should have strong knowledge and skills in the use, deployment and support of Hitachi replication solutions. They have knowledge of general storage and storage networks concepts and in the area of interoperability of storage networking. As systems integrators, they provide pre-installation services, and following Hitachi Vantara recommended practices, they deploy, configure and test the software products included in the solutions. They provide post-installation support services including solutions maintenance, updates and upgrades, and they have thorough knowledge of problem determination and incident resolution tools and techniques. They support all related administrative activities and should also be able to perform knowledge transfer tasks by communicating needed information to allow clients to assume responsibility for operation of the solutions deployed.

| Test Objectives | |
|-----------------|---|
| Section 1 | Replication principles and fundamentals |
| 1.1 | Describe the features of synchronous remote replication. |
| 1.2 | Describe the features of asynchronous remote replication. |
| 1.3 | Demonstrate how clusters integrate with replication. |
| 1.4 | Describe when to use Hitachi Thin Image vs. Hitachi ShadowImage in a replication solution. |
| Section 2 | Understanding replication solutions |
| 2.1 | Identify anticipated outage causes and the appropriate protection. |
| 2.2 | Describe the key elements of the customer environment that need to be taken into consideration when deploying a replication solution. |
| 2.3 | Describe how replication solutions are deployed within a tiered storage infrastructure. |
| Section 3 | Pre-deployment checks |
| 3.1 | Identify the required checks to be carried out prior to deploying a replication solution. |

Hitachi Vantara Certified Expert Replication Solutions Implementation HCE-5710 Exam

- TSI2728 Operating and Managing Global-Active Device (3-day ILT)
- 1086CI Managing Hitachi Universal Replicator (HUR) (3-day ILT)
- TSI2995 Managing Data Protection with Hitachi Ops Center Protector (2-day ILT)
- 1197CI Installing and Configuring Global-Active Device (GAD) (1-day ILT)
- 1202CI Installing and Configuring Hitachi Universal Replicator (HUR) (1-day ILT)
- 1112CV Managing TrueCopy Replication (70-min video)

The Hitachi Vantara Learning Center

provides easy access to our instructor-led, online and downloadable training and exams, as well as full support for Hitachi Vantara certified professionals and other qualification programs.

To register or for more information, go to:

Customers/Partners

Hitachi Vantara Learning Center

Employees

Hitachi University

| 3.2 | Describe configuration, infrastructure, and bandwidth requirements for remote replication solutions. |
|-----------|---|
| 3.3 | Describe configuration requirements for in-system replication solutions. |
| Section 4 | Hitachi replication common concepts |
| 4.1 | Describe how command devices are set up and used. |
| 4.2 | Describe how to manage replication pairs. |
| | Describe how RAID manager/command control interface (CCI) is |
| 4.3 | configured and used. |
| 4.4 | Describe the purpose of having consistency groups and explain their benefits. |
| 4.5 | Describe the differences between a CCI device group and a consistency group. |
| Section 5 | Implementing Hitachi Universal Replicator |
| 5.1 | Describe the characteristics of a replication solution that uses Hitachi |
| | Universal Replicator software. |
| 5.2 | Describe how to configure Hitachi Universal Replicator links between |
| 5.2 | Hitachi storage systems. |
| 5.3 | Describe the key steps to set up and configure a Hitachi Universal |
| 0.0 | Replicator solution. |
| 5.4 | Describe the requirements and the restrictions relating to mapping |
| | and pairing P-VOLs and S-VOLs for Hitachi Universal Replicator. Describe the purpose and the usage of RAID Manager/CCI |
| 5.5 | commands with Hitachi Universal Replicator. |
| Section 6 | Implementing Hitachi Thin Image |
| | Describe the key steps to set up and configure a Hitachi Thin Image |
| 6.1 | solution. |
| 6.2 | Describe the requirements and the restrictions relating to mapping |
| 0.2 | and pairing P-VOLs and V-VOLs for Hitachi Thin Image. |
| 6.3 | Describe the purpose and the usage of RAID Manager/CCI |
| 0 | commands with Hitachi Thin Image. |
| Section 7 | Implementing Hitachi ShadowImage |
| 7.1 | Describe the characteristics of a replication solution that uses Hitachi Shadowlmage software. |
| | Describe the key steps to set up and configure a Hitachi |
| 7.2 | Shadowlmage solution. |
| 7.3 | Describe the requirements and the restrictions relating to mapping |
| | and pairing P-VOLs and S-VOLs for Hitachi Shadowlmage. |
| 7.4 | Describe the purpose and the usage of RAID Manager/CCI |
| | commands with Hitachi Shadowlmage. |
| Section 8 | Implementing Hitachi TrueCopy |
| 8.1 | Describe the characteristics of a replication solution that uses Hitachi TrueCopy software. |
| 8.2 | Describe the key steps to set up and configure a TrueCopy solution. |
| 8.3 | Describe the requirements and the restrictions relating to mapping |
| | and pairing P-VOLs and S-VOLs for TrueCopy. |
| 8.4 | Describe the purpose and the usage of RAID Manager/CCI |
| | commands with TrueCopy. |
| Section 9 | Implementing global-active device |
| 9.1 | Describe the characteristics of a replication solution that uses global- |
| | active device. |

| 9.2 | Describe the key steps to set up and configure a global-active device solution. |
|------------|---|
| 9.3 | Describe the purpose and the usage of RAID Manager/CCI commands with global-active device. |
| 9.4 | Describe the I/O modes in a global-active device environment. |
| Section 10 | Advanced replication implementation techniques |
| 10.1 | Demonstrate how to set up replication and describe operations in a tiered storage environment with Hitachi Universal Volume Manager software. |
| 10.2 | Describe how replication solutions are deployed within Hitachi Dynamic Provisioning environments. |
| 10.3 | Demonstrate how to set up replication and describe operations in a three data center (3DC) configuration. |
| Section 11 | Replication with Hitachi Replication Manager software |
| 11.1 | Describe how Hitachi Replication Manager can be used with in-system replication. |
| 11.2 | Describe how Hitachi Replication Manager can be used with remote replication. |
| 11.3 | Describe how to integrate an existing HORCM configuration into Hitachi Replication Manager. |
| Section 12 | Testing and troubleshooting replication solutions |
| 12.1 | Describe the steps required to fix a "HORCM failed to start" error. |
| 12.2 | Describe how to specify the environment parameters. |
| 12.3 | Describe methods of troubleshooting "paircreate" errors. |
| 12.4 | Describe the various replication pair states. |
| 12.5 | Describe which logs are available for troubleshooting and how to access them. |
| 12.6 | Describe how to troubleshoot in a global-active device environment. |
| 12.7 | Describe how to troubleshoot mounting problems in replication environments. |

Digital Badges

Achieve your goals in an ever-expanding online marketplace easily with digital badges by sharing your credentials on LinkedIn and other social media.

After earning this credential, you will receive the Hitachi Certified Expert - Replication Solutions Implementation Digital Badge.



Learn more about our digital badges:

- Understand Hitachi Vantara Digital Badges
- View all the available Hitachi Vantara Digital badges

Hitachi Vantara



Corporate Headquarters
2535 Augustine Drive
Santa Clara, CA 95054 USA
HitachiVantara.com | community.HitachiVantara.com

Regional Contact Information Americas: 1-800-446-0744 Global: 1-858-547-4526 HitachiVantara.com/contact

HITACHI is a trademark or registered trademark of Hitachi, Ltd. VSP is a trademark or registered trademark of Hitachi Vantara Corporation. All other trademarks, service marks and company names are properties of their respective owners.