

Datasheet

Cloud Disaster Recovery



Cloud Disaster Recovery allows enterprises to achieve application mobility and data protection without any constraints to achieve business resilience. It is built on patented technologies and provides WAN-optimized active-active replication, global deduplication, compression, and military-grade encryption, as well as immediate recovery in cloud or at remote site, as required. With Cloud Disaster Recovery, IT managers can securely and quickly protect all applications, operating systems, containers, databases, data, etc., in a hybrid and multi-cloud infrastructure.

Use Cases

- 1\ Ransomware protection
- 2\ Disaster Recovery over public network
- 3\ Quick recovery from local backup
- 4\ Disaster Recovery over secure VPN
- 5\ Incremental over the Wire Disaster Recovery after data seeding the initial Disaster Recovery copy for large scale Disaster Recovery

Why Cloud Disaster Recovery?

Always **On** ransomware protection

Simple and scalable three-step workflow

Protect workloads to and from heterogeneous infrastructure in hybrid and multi-cloud environment

Patented technologies for storage, network and cloud infrastructure and data management

Technical Overview

Cloud Disaster Recovery captures application consistent images from any physical or virtual server to any target infrastructure in a hybrid and multi-cloud environment. These point-in-time images are then deduplicated, compressed, encrypted, and replicated to the target to ensure that when a failover occurs, an application is brought back to a fully consistent state. Recovery points can be used to restore an application / server to any previously captured point-in-time, to achieve superior RPOs. Disaster Recovery plans can be tested often to ensure confidence and speed of execution if a disaster should occur.




A state-of-the-art UI provides visibility of operations across the source and target environments. The user follows a simple 3 step workflow and the entire process is automated making it very intuitive to use.

The Solution includes a Disaster Recovery planner to create an end-to-end plan to identify the machines to be protected, and automate the entire protection and recovery process within the relevant timeline. Run any pre- and post-Disaster Recovery scripts to manage interrelationships between applications and the environment. Disaster Recovery plans can be tested locally or remotely to ensure confidence, reliability, and speed of migration.

Automatic WAN throttling allows operations to continue unmonitored during busy and light hours. Customer supplied encryption keys, AES 256 encryption and end to end data integrity check provide complete data privacy and security.



Depending on RTO objectives, Cloud Disaster Recovery has three modes.

 Instant Recovery Copy	 On-Demand Copy	 Cold
These are pre-built, ready-to-boot, VM images with the most recent updates available for Instant Recovery. The RTO for these systems is very low and can be triggered at the click of a button.	These are VM images kept in deduplicated and encrypted storage only, to reduce storage and compute consumption. The VMs will be created upon Disaster Recovery recovery initiation. The RTO for these systems can vary from a few minutes to a few hours depending upon the size of the VM and associated data. This is a cost-effective solution for systems that do not have very low RTOs.	These are deduplicated, compressed, and encrypted data that are kept in a cloud storage bucket to drastically reduce storage and compute consumption. Once a solution recovery is initiated, a Cloud Disaster Recovery instance is deployed and the VMs are created from the data residing in the cloud storage bucket. The RTO for these systems can vary from a few minutes to a few hours depending upon the size of the VM and associated data. This is the most cost-effective solution for systems that do not have very low RTOs.

Lower OpEx

- \ Protects against ransomware attacks
- \ Application agnostic and so saves on using multiple tools for Disaster Recovery
- \ Cold, warm and hot Disaster Recovery options for controlling cost
- \ Central management for a multi-cloud infrastructure from a single pane of glass
- \ Automated job scheduling and alerts require less supervision

High Performance

- \ WAN optimized
- \ Globally deduplicated and compressed data replication

Secure

- \ Military-grade AES-256 encryption of data in flight and at rest
- \ Single secure connection between source and target
- \ Always **ON** protection against ransomware attacks

Reliable

- \ End to end data integrity verification
- \ Robust error recovery

Automated

- \ Automatic replication and transformation between platforms
- \ Pre and post processing automation
- \ Disaster Recovery plans for automated execution for application groups
- \ Automatic setup of predefined VMs, IP changes and security groups applied

About Persistent

With over 15,000 employees around the world, Persistent Systems (BSE & NSE: PERSISTENT) is a global services and solutions company delivering Digital Engineering and Enterprise Modernization. Our next-level capabilities and solutions that support continuous innovation help enterprises boost efficiency, resiliency, and agility with a solid core IT modernization strategy.

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