Enhance Your Disaster Recovery Strategy with QoreStor

Reduce disaster recovery costs while accelerating backup and replication

ARE YOU PREPARED FOR A DISASTER?

From 2000 to 2020, natural disasters cost the global economy over $5 trillion[1]. Man-made disasters can cause significant losses as well. Swiss Re, the world's largest reinsurance company, studied the effects of disasters in 2020 and found that $12 billion in losses were due to man-made events[2]. What more evidence is needed to ensure you have an effective disaster recovery (DR) strategy and solution?

As an IT professional, you will experience a system failure, outage or complete site disaster at some point. It's inevitable. Just look at a few recent natural disasters from 2020 and 2021, like the wildfires in the western U.S. and Canada, the cyclone and flooding in Australia, and the winter storms in the U.S. that caused major regional power outages. Disasters can also arise from man-made situations like cybersecurity and ransomware attacks, power outages, configuration mistakes, and plain old human error. Having a comprehensive disaster recovery strategy and solution is critical in times like these.

Preparation is critical to your organization

According to the Federal Emergency Management Agency (FEMA), 40 percent of businesses do not reopen after a disaster and another 25 percent fail within one year. Similar statistics from the United States Small Business Administration indicate that over 90 percent of businesses fail within two years after being struck by a disaster. Disaster recovery is top-of-mind with business and IT leaders today. In IDG's State of the CIO 2021 Executive Summary[3], security and risk management, of which disaster recovery is part of, is the top priority of line-of-business leaders and the number two priority for heads of IT.

Most days, you probably don't even think about disaster recovery. You focus on projects that streamline processes, decrease costs and give you some good visibility. But when a disaster happens and you need to quickly restore your company's data and IT services, an ineffective disaster recovery plan can pose a serious threat to the company as a whole.

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THE 3-2-1 BACKUP STRATEGY

When it comes to disaster recovery planning, most IT professionals agree that having a "3-2-1" backup strategy is the proper and proven approach. This strategy translates to having 3 copies of your backup data, with 2 copies on different devices, and 1 copy stored offsite at a remote location or in the cloud.

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[1] *Statista, "Global economic losses from natural disasters 2000-2020", April 9, 2021*

[2] *Swiss Re Institute, "Natural catastrophes in 2020", March 30, 2021*

[3] *IDG, "State of the CIO 2021 Executive Summary", February, 2021*

Data replication is the key to success

Key to the success of this disaster recovery approach is a solid data replication solution, regardless of the backup and recovery solution you use. Some backup solutions include replication and some replication solutions are appliance-based, but typically require specific hardware at both ends of the replication. A few solutions are pure software that may be run on any physical or virtual server—on-premises, at a remote site and even up in a public cloud.

In this technical brief, we will focus on software-based replication.

DISASTER RECOVERY BEST PRACTICES

Having multiple copies of your backups stored on multiple devices located in geographically distributed sites is the best disaster recovery approach. Maintaining a copy of your backups in the cloud makes sense and is especially valuable for ransomware protection if you use immutable storage.

Wide ranging support enables long-term ROI and peace of mind

A flexible software-based replication solution should work with most popular backup solutions, support a wide range of storage devices and allow replication even between multiple clouds. This way, you have long-term piece of mind and gain high return on your disaster recovery investment, even if you choose to change backup solutions.

Data deduplication accelerates backups and replication

Even though storage costs continue to decline, exponential data growth typically negates any overall backup storage cost reduction over time. A replication solution that also offers built-in source-side data deduplication for backup helps significantly reduce disaster recovery storage requirements and costs. Source-side deduplication helps accelerate your backups while reducing replication time—whether to an on-premises storage device, or one at a remote site or in the cloud.

> "Storing a copy of your on-premises backups in the cloud means you now have a backup copy on a 2nd device, and one that is offsite."

Support for cloud services checks off multiple boxes in the 3-2-1 strategy

Leveraging a public cloud service provider like AWS, Azure, Google, Wasabi and others for disaster recovery may be a smart tactic, especially when it covers both the "2" and "1" in the 3-2-1 backup strategy discussed above. Storing a copy of your on-premises backups in the cloud means you now have a backup copy on a 2nd device, and one that is offsite. You might even choose a cloud location that is geographically located far away from your primary data center, just in the case of a major regional event or outage.

Enabling a tiered storage approach reduces costs and supports operational objectives

Many IT managers use a tiered storage approach for disaster recovery. They keep the most recent backups on-premises for fastest recovery but replicate backups offsite as well. Then, as data ages, or for data that rarely changes, it can be migrated to less costly storage in the cloud, such as object storage and cold storage like AWS Glacier. This may even satisfy both disaster recovery and long-term retention needs for compliance.

THE QUEST QORESTOR SOLUTION

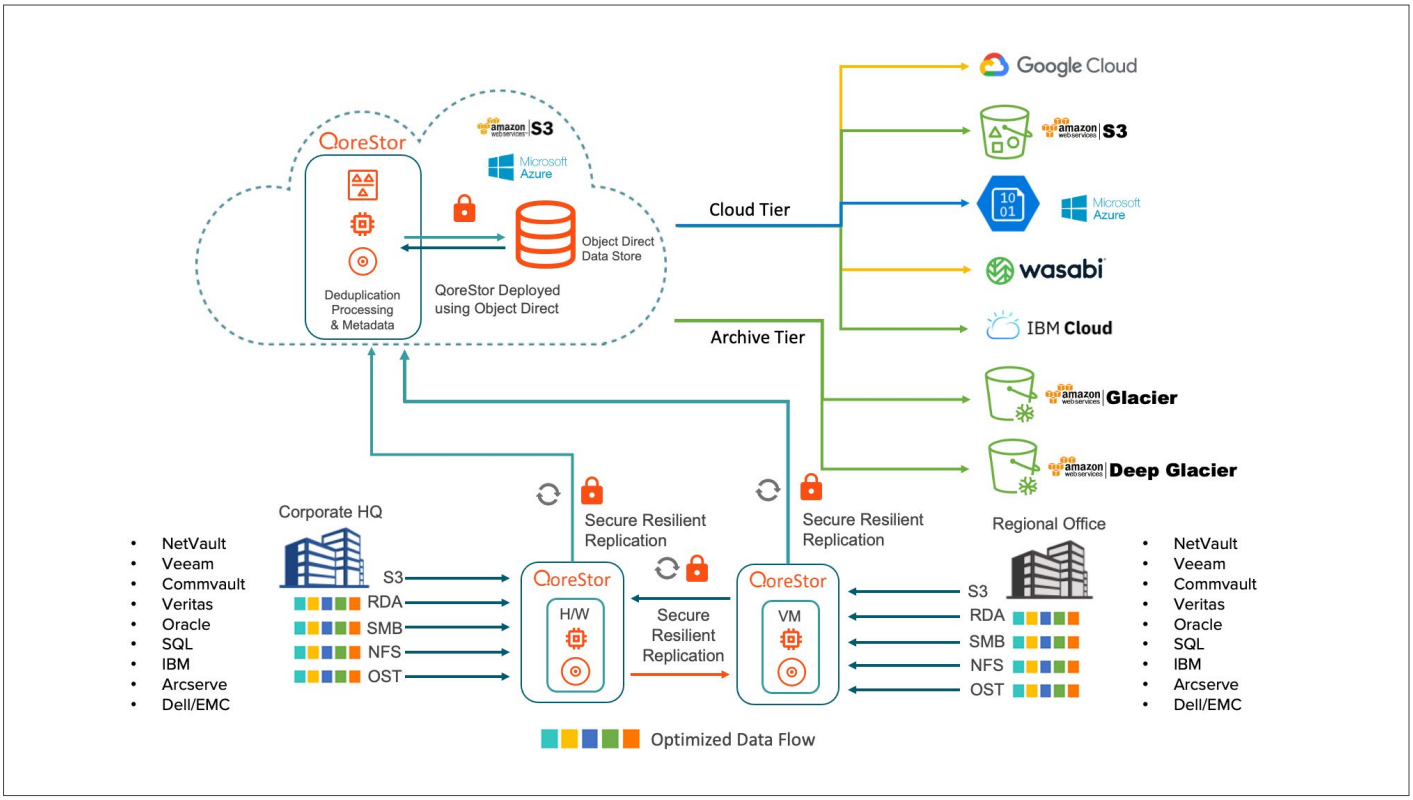
What is QoreStor?

Quest® QoreStor® is a powerful, software-defined secondary storage solution that includes powerful replication, deduplication, compression and encryption technologies, designed to greatly enhance your disaster recovery strategy. QoreStor will significantly improve virtually any backup solution you use.

The benefits of QoreStor

You can accelerate backup performance, reduce storage requirements and cost, and more efficiently leverage the cloud for backup, disaster recovery and long-term data retention. QoreStor also shrinks replication time, improves data security and helps you address compliance requirements. QoreStor is highly interoperable and supports numerous storage vendors, virtualization platforms, backup providers and cloud service providers. It helps improve overall data protection and disaster recovery as well as the return on your IT investments.

QoreStor replication offers "Secure Connect" to ensure replication completes, even over slow and unreliable WAN connections. It offers best-in-class data deduplication to significantly reduce backup storage requirements by an average of 20:1. With source-side deduplication, QoreStor replicates only unique data to remote locations, typically reducing the replication window by 10 to 15 times. And for data security on-premises and in the cloud, QoreStor offers built-in encryption at rest, secure erase and FIPS 140-2 compliance. It's a key component for your disaster recovery technology stack.



QoreStor offers many options for disaster recovery and supports most popular backup solutions and public clouds.

The storage tiering capabilities of QoreStor

QoreStor provides a number of backup storage tiering capabilities to use in your backup and disaster recovery strategy.

- Cloud Tier to move and recover data from cloud storage quickly and easily with this policy-driven, seamless cloud extension.
- Performance Tier to recover instantly, without having to compromise on deduplication, with this high-speed storage group.
- Archive Tier to address long-term data retention needs by sending backup data to low-cost 'cold' cloud storage, such as AWS Glacier and Azure Archive.

The bottom line

No matter what backup solution you use, QoreStor will deliver the disaster recovery capabilities you need to be better prepared for unexpected outages and attacks, and quickly recover the data that drives your business.

To learn more about Quest QoreStor, visit www.quest.com/qorestor

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Quest Software creates technology and solutions that build the foundation for enterprise AI. Focused on data management and governance, cybersecurity and platform modernization, Quest helps organizations address their most pressing challenges and make the promise of AI a reality. Around the globe, more than 45,000 companies including over 90% of the Fortune 500 count on Quest Software. For more information, visit www.quest.com or follow Quest Software on X (formerly Twitter) and LinkedIn.

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