

## SOFTWARE

# METROCLUSTER HIGH-AVAILABILITY AND DISASTER RECOVERY SOLUTION

## KEY FEATURES

### Integrated High Availability and Disaster Recovery

Provides complete hardware and data redundancy with user-controlled site failover for the highest level of data availability.

### Synchronous Replication

Ensures that a copy of your data is always up to date and available at a remote site.

### Rapid Recovery

Allows you to resume operations at a remote site minutes after a disaster.

### Metropolitan Distance

Enables you to locate a remote site at a safe distance from your primary site without causing unacceptable latency delays.

**Fast failover with synchronous replication for high availability and disaster recovery.**

## THE CHALLENGE:

### Ensure High Availability and Business Continuity

Organizations recognize the importance of having a bulletproof business continuity plan in place to deal with site disasters. Site disasters, which are more likely to occur than regional disasters, can be caused by terrorist attacks, HVAC failures, power failures, building fires, plumbing accidents, or architectural failures. The cost of not having a business continuity plan—lost productivity, revenue, and customer loyalty, and possibly even business failure—makes it mandatory to have a plan that ensures an absolute minimum of downtime and rapid recovery from a disaster, with no loss of data.

However, such plans, often with added high-availability requirements, can be costly and difficult to implement and administer with traditional replication solutions. The disaster recovery solution needs to be easy to manage, making the recovery process straightforward to ensure minimal downtime. An additional challenge is ensuring that the data at the remote site is fully up to date so that it can serve as the principal data store in case of a disaster at the primary site.

## THE SOLUTION:

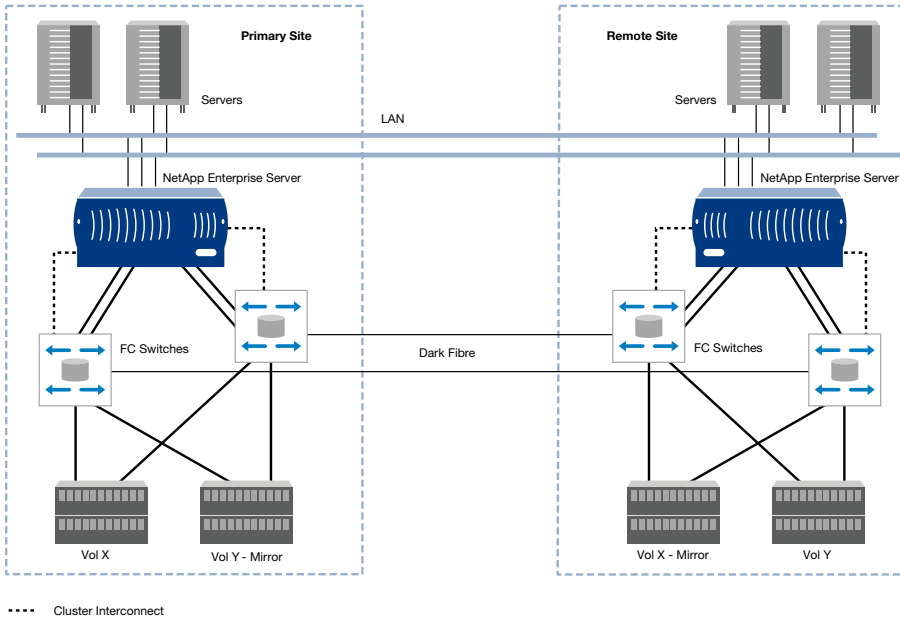
### NetApp MetroCluster for Rapid Recovery

NetApp MetroCluster is an integrated high-availability and disaster recovery solution that leverages proven technologies from

NetApp and its partners. It expands the capabilities of the comprehensive Network Appliance™ portfolio of high-availability and disaster recovery solutions—a portfolio that includes failover, data replication, and backup solutions. A simple-to-administer solution, MetroCluster extends failover capability from within a data center to a site located many miles away, providing protection against site disasters. It also replicates data from the primary site to the remote site to ensure that data there is completely current. The combination of failover and data replication ensures that you can recover from disaster in minutes rather than hours or days—with no loss of data. The built-in simplicity of MetroCluster allows you to quickly fail over to a remote site and continue operations while turning your attention back to critical business decisions.

## INTEGRATED HIGH AVAILABILITY AND DISASTER RECOVERY

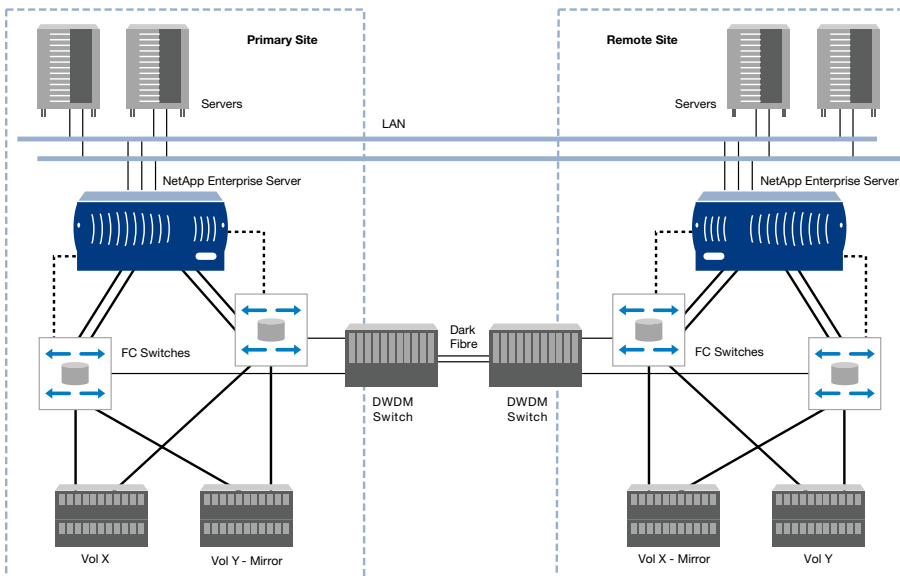
By integrating high-availability and disaster recovery capabilities in a single solution, MetroCluster enables you to reduce complexity, simplify management, and improve your return on investment. It can be used to simultaneously protect any mission-critical application and improve availability. MetroCluster is ideal for campus and metropolitan environments, where the distance between primary and remote data centers permits synchronous replication without undue latency delay.



---- Cluster Interconnect

**Figure 1) MetroCluster over direct Fibre Channel switch connection.**

This solution provides high availability and disaster protection in a campus environment.



---- Cluster Interconnect

**Figure 2) MetroCluster over Fibre Channel and DWDM switch infrastructure.**

This solution connects distant sites in metropolitan areas.

In the event of an outage—whether due to an isolated hardware problem or an overall site disaster—MetroCluster provides fast recovery by extending the benefits of clustered server technology to sites located miles apart.

For more frequent failures resulting from hardware components, MetroCluster instantly accesses the replicated data on the remote server without any operator intervention or disruption to client applications. Even for major catastrophic site failures, MetroCluster provides single-button recovery, reducing application downtime.

**ABOUT NETWORK APPLIANCE**

Network Appliance is a world leader in unified storage solutions for today's data-intensive enterprise. Since its inception in 1992, Network Appliance has delivered technology, product, and partner firsts that simplify data management. Information about Network Appliance solutions and services is available at [www.netapp.com](http://www.netapp.com).