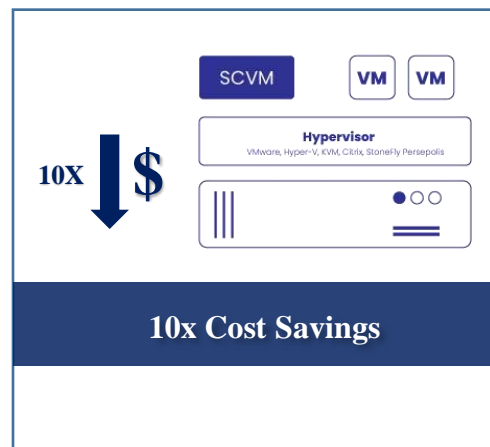
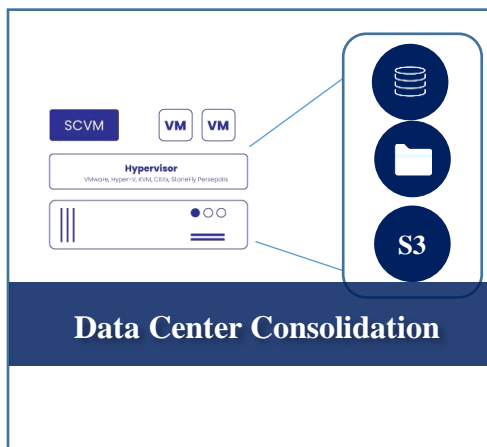
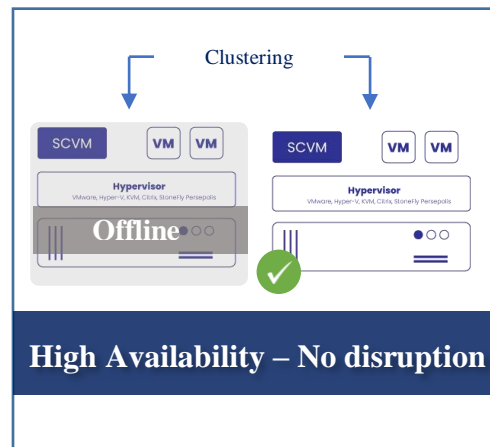
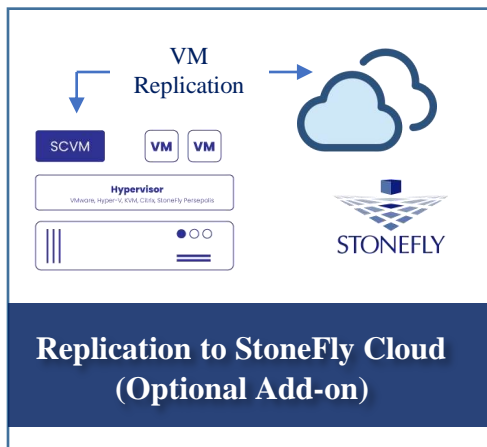
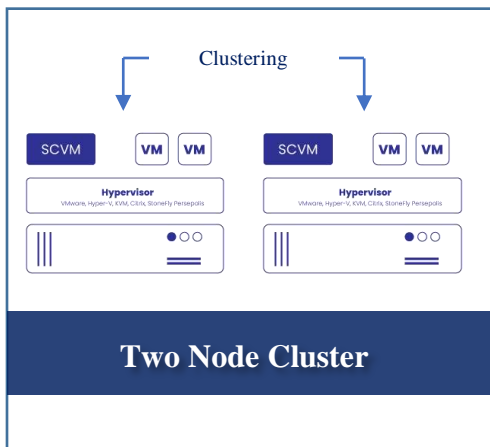
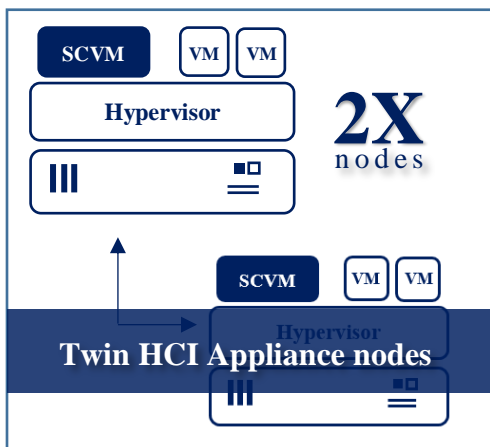
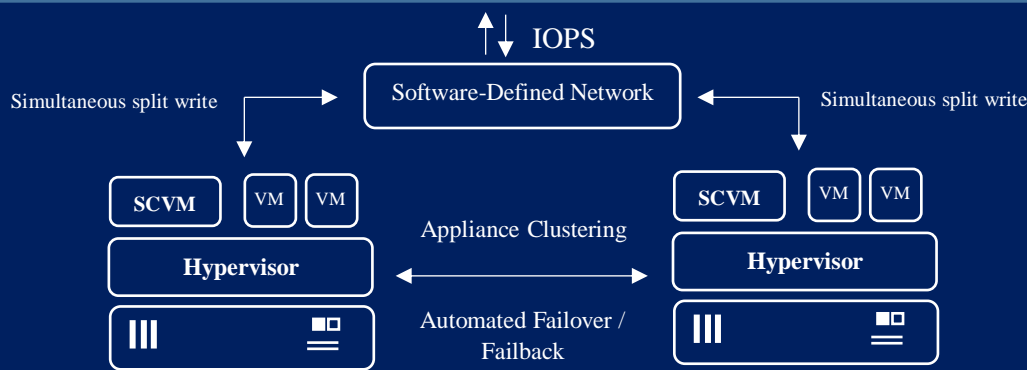


TwinHCI Systems

High Availability Clustered Hyperconverged Appliances





Introduction

What are TwinHCI Systems?

TwinHCI systems are dual node hyper-converged appliances configured as active/active clustered nodes with automated failover and failback across Local Area Network (LAN) or Wide Area Network (WAN).

Powered by industry standard hypervisors, the TwinHCI systems enable StoneFly customers to reduce data center footprint and replace servers, switches, and legacy storage silos with highly scalable, easily manageable, and cost-effective Virtual Machines (VMs). Additionally, the built-in cloud connect features facilitate cloud integration and allow users to also leverage cloud storage for a variety of applications, use-cases, and projects.

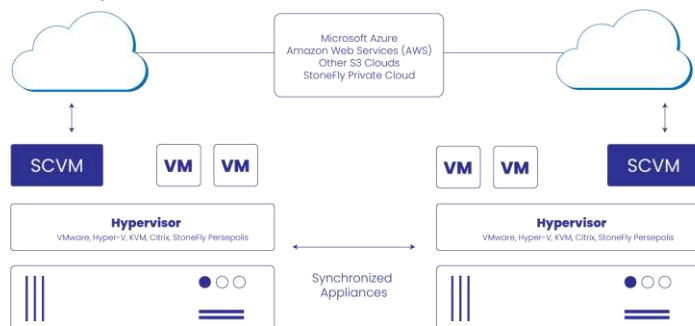
The twin nodes are built to ensure continuity and data availability and deliver near-zero downtime; making them a great fit for organizations in need of infrastructure with no single point-of-failure.

With customization options for compute, storage, and virtualization engines (or hypervisors), StoneFly offers the TwinHCI systems for SMBs, SMEs, & large organizations and all industries including healthcare, education, finance, and government departments.

Working

How TwinHCI Systems work?

With software-defined networking the TwinHCI write data simultaneously on both nodes. This clustered configuration ensures that each appliance node has data committed to it. Evidently, this delivers the capability that even if one appliance node is down, for maintenance or unavailable for any other reason (disasters, etc.), the organization continues to operate without interruption by accessing the secondary node.



Hyperconvergence: Each appliance node combines compute, network, storage, and virtualization in a single Hyperconverged Infrastructure (HCI).

Cloud Connect: Store copies or archive data in Azure, AWS, other S3 clouds AND/OR configure real-time replication for critical VMs to StoneFly private cloud. (optional add-on).

Supported hypervisors: The TwinHCI systems can be configured with:

- VMware
- Microsoft Hyper-V
- KVM
- Citrix or XenServer
- StoneFly Persepolis

What's included:

- Two HCI appliances
- User's choice of hypervisor
- StoneFly storage OS (SCVM)
- Built-in cloud connect to Azure, AWS, other S3 clouds, or StoneFly private cloud
- Advanced data services

SCVM Features

TwinHCI Systems: Software Features

The TwinHCI systems come preconfigured with StoneFly storage operating system (SCVM). SCVM delivers an array of data protection and storage optimization features to ensure that StoneFly customers get maximum value at minimum costs.

SCVM: SCVM is an 8th generation patented storage virtualization software - deployed as a VM on the TwinHCI systems.

[Learn more](#)

Storage Optimization Features:

Our customers love the following SCVM features. For a complete list, please contact us.

Deduplication

Reduce up to 10x data footprint by leveraging deduplication to remove unnecessary copies & compressing data

Thin Provisioning

Repurpose unused storage, reclaim space, & speed up storage provisioning for new applications & projects

FlashCache™

Enhance IOPS by leveraging high performance flash drives (SSDs) for frontend SSD

Hot Tier Storage

Store hot tier on high performance flash drives (SSDs) to improve speed and support high IOPS

Sync/Async Replication

Configure real-time or scheduled replication for VMs and setup on-site, offsite, or cloud based target repositories

Automated Tiering

Setup high performance & cost effective tiers – simplify management by automating transfers between them

Data Protection Features:

StoneFly customers show particular interest in the following features. For a complete list, please contact us.

WORM Storage

Secure and compliant Write-Once Read-Many storage repositories fit for critical workloads

Immutable Snapshots

Configure read-only volume snapshots to protect critical VMs and/or entire virtual environment

Air-Gapped Volume

Set up detachable & isolated air gap volumes to store critical data & protect them from cyber-security threats

Advanced Encryption

Protect critical volumes with hardware enabled volume encryption technology

Veeam Integrated

Leverage Veeam software to setup enterprise backup & DR for critical workloads (optional add-on)

Anti-virus & Anti-ransomware

Secure data from virus, malware, & ransomware with built-in anti-virus & anti-ransomware

TwinHCI Systems Hardware Models:

- Twin 4-bay towers
- Twin 6-bay 2U rackmounts
- Twin 8-bay 2U rackmounts
- Twin 12-bay 2U rackmounts
- Twin 16-bay 3U rackmounts
- Twin 24-bay 4U rackmounts
- Twin 36-bay 4U rackmounts

Hardware Specifications

TwinHCI Systems Hardware Features:

StoneFly HCI appliances are available in three appliance series:

- D-Series (for small to mid-tier organizations)
- XS-Series (for mid-tier to large organizations)
- XD-Series (for enterprise-level organizations)

Performance and price comparison between appliance series (ascending order): D-Series < XS-Series < XD-Series

Each appliance series features multi-core processors, high performance system memory, high speed network ports, and enterprise storage drives with multiple customization and upgrade options.

For details, [contact StoneFly pre-sales engineers.](#)

Use Cases

Who should setup TwinHCI Systems?

TwinHCI systems are suitable for all environments & organizations looking to ensure disruption-free access to critical workloads. Here are a few examples where TwinHCI systems are a great fit.

Healthcare Services:

Healthcare cannot tolerate delay, downtime or data inaccessibility. TwinHCI systems ensure disruption-free & continuous operations for healthcare organizations.

Finance Industry:

Financial data is critical for all businesses and organizations. It has to be always available. With the TwinHCI data owners maintain continuous accessibility to important financial information.

Power Sector:

In a digitally connected world, “going dark” is not an option. Service providers rely on an array of software & data to prevent an outage. TwinHCI systems make sure that these software & data is always available so that the lights are always on.

Law Departments:

Security footage, criminal profiles, investigation data, and other similar information have to be readily available to facilitate law department & affiliated organizations. TwinHCI systems make sure that these critical files are secure & always available.

Retail:

Retail businesses do not usually have on-site IT staff but data availability is important for them. TwinHCI systems can ensure that critical cash register, inventory & accounting software remain available even in the event of a disaster.

Best fit for environments in need of high availability with minimum IT staff intervention:

TwinHCI systems, equipped with automated failover and failback, ensure that critical VMs remain available with minimum IT staff intervention; even when an appliance experiences a disaster. This makes them suitable for all kinds of organizations that do not have IT staff on-site but rely on applications and digital data for daily operations.

Advantages

Why use TwinHCI Systems?

Data Center Consolidation:

Replace expensive storage silos & dedicated servers with easily manageable & seamlessly scalable virtual servers & VMs.

Disruption-Free Data Accessibility:

Ensure that data is always available when you need it in environments with no tolerance for delay. E.g healthcare, finance, etc.

Future-Proof Infrastructure:

Seamlessly scale provisioned volumes, or integrate cloud repositories, to quickly add storage & performance.

Less Hardware, Less Cost – More Value:

Add more capabilities with minimum costs and little to no hardware additions such as cloud archiving, cloud disaster recovery, configuring backup & DR, and more.

Get Started

Purchasing TwinHCI Systems

To purchase StoneFly TwinHCI systems, contact StoneFly sales on the contact information below. Share the details of your requirements including number of VMs, preferred virtual environment, and budget. Our sales representative will guide you through the process and liaison any discussion with our technical staff so that all your concerns are addressed before generating a custom quote.

Contact Us

Email: sales@stonefly.com
Phone: +1 510 265-1616
Website: www.stonefly.com

Overview

About StoneFly, Inc.

StoneFly, Inc. offers physical, virtual, and cloud-based storage, hyperconverged, and backup and disaster recovery solutions. StoneFly is the trusted vendor of government departments, corporate leaders, and the technology partner of Microsoft Azure, AWS, Veeam, Rubrik, and VMware.

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