IT INFRASTRUCTURE PROVIDER
SUPPLYING CYBER RESILIENCE FOR BUSINESS CONTINUITY

DISASTER RECOVERY
BACKUP
CLOUD HOSTING
HYBRID CLOUD
HYPERCONVERGED
DATA STORAGE
CYBER SECURE SERVERS

nfina

THE NFINA ADVANTAGE

Since 2012, Nfina Technologies has consistently provided cutting-edge products and solutions to meet the evolving needs of IT departments. We aim to help these departments optimize infrastructure spending while staying up-to-date with the latest technology. As a provider of cyber resilience for business continuity, our comprehensive range of IT solutions includes Hybrid Cloud with managed services, Hyperconverged, SAN Storage, Servers, Backup and Disaster Recovery, and Cloud Hosting. We stand out in the market with our high-performance equipment and a leading 5-year warranty, backed by US-based technical support. Every Nfina customer receives personal attention from our staff because our success is tied to your business.

Outstanding Customer Support

"We were looking for someone to support the solution across the life cycle of the products. We are overjoyed that we selected Nfina."

Joey Watson, VP of Information Technology
CCB Community Bank

Highest Quality IT Products

"I needed a low-cost solution without sacrificing reliability or quality. Nfina's use of best-in-class components and their willingness to listen to my needs and find a way to meet them made them the clear choice. Quick delivery time and a customer service team that listens and gets the job done makes Nfina a trusted partner for my business."

Jerry Lathan, CEO & Owner
The Lathan Company, Inc., Historical Restoration Specialists

Security and Stability

"Nfina's products and managed solutions play a key role in insuring that our security solutions are continuously up and running and maximizing the availability of our IT Ecosystems and ultimately, the protection for our clients."

Ben Eazzetta, CEO
ARES Security Corporation

At Nfina we pride ourselves in delivering:

Ransomware Protection

Our Hybrid Cloud and Backup and Disaster Recovery Solutions provide immutable storage, on and off-prem monitoring, failover, rollback, and DR testing to ensure the security of your data.

Cloud Hosting Savings

Offering more benefits than the public cloud without the cost and complexity, our customers save up to 50% more versus public hyperscale cloud solutions.

5-Year Product Warranty

Best in the industry! We stand behind the reliability and quality or our products.

Superior Tech Support

24/7 US based tech support.
No third party call centers.

Faster Lead Times & Delivery

We provide same-day quotes and same-day shipping.

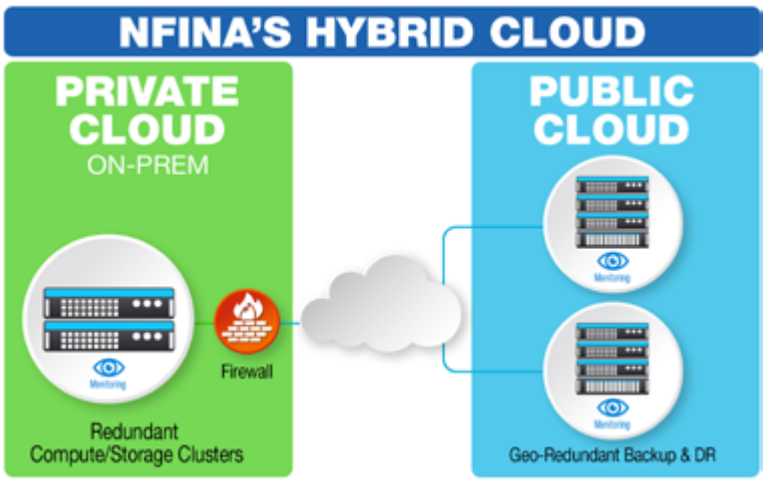
Industry Proven Installations

- Banking
- Data Centers
- Education
- Enterprise
- Government
- Healthcare
- Security
- Utilities

* Using in stock components

HYBRID CLOUD

What are the Benefits of Nfina's Hybrid Cloud?



The Nfina Hybrid Cloud example: compute and storage cluster replicating to public facing cloud.

Nfina's Hybrid Cloud data protection solutions offer more benefits than the public cloud without the cost and complexity. In reality, Nfina customers save up to 50% more with Nfina's hybrid multi cloud solutions versus public cloud solutions.

In case of data loss, Nfina's Hybrid Cloud data protection solutions allow instant recovery of your data and applications. An attack by ransomware, software or hardware failure, sabotage, natural disaster, or an employee error can cause data loss. Any one of these events or disruptions can upset your operations entirely, with costly consequences.

Small and mid-sized businesses are at a higher risk of downtime and cyber attacks because they believe backup and DR are too expensive, according to the Beazley Breach Briefing. Nfina's hybrid cloud data protection is more effective and affordable than other options, making it a good choice for businesses of any size. It is also easy to use and ensures you can continue to operate.

Making sure critical data is protected, and accessible is crucial to disaster recovery. With Nfina's hybrid cloud data protection, you can recover your data no matter where it resides, on-premises or in the cloud. Nfina-View software provides monitoring on-prem and cloud, failover, rollback, and DR testing. Failover and rollback are simple single-click operations and do not require rebuilding and repopulating data.

- Allows for **Seamless Migration** between sites as your business needs change.
- **Incremental Migration and Application Modernization** allow you to move to the cloud at your pace.
- **Geographic Redundancy** is built into the architecture.
- **Higher Performance** allows you to put the apps requiring lower latency in the private cloud.
- **Cost Savings** allows the user to shift workloads to the most cost-effective site.
- **Scalability** allows for rapid cloud expansion if necessary.

Why is Hybrid Cloud Security Important?

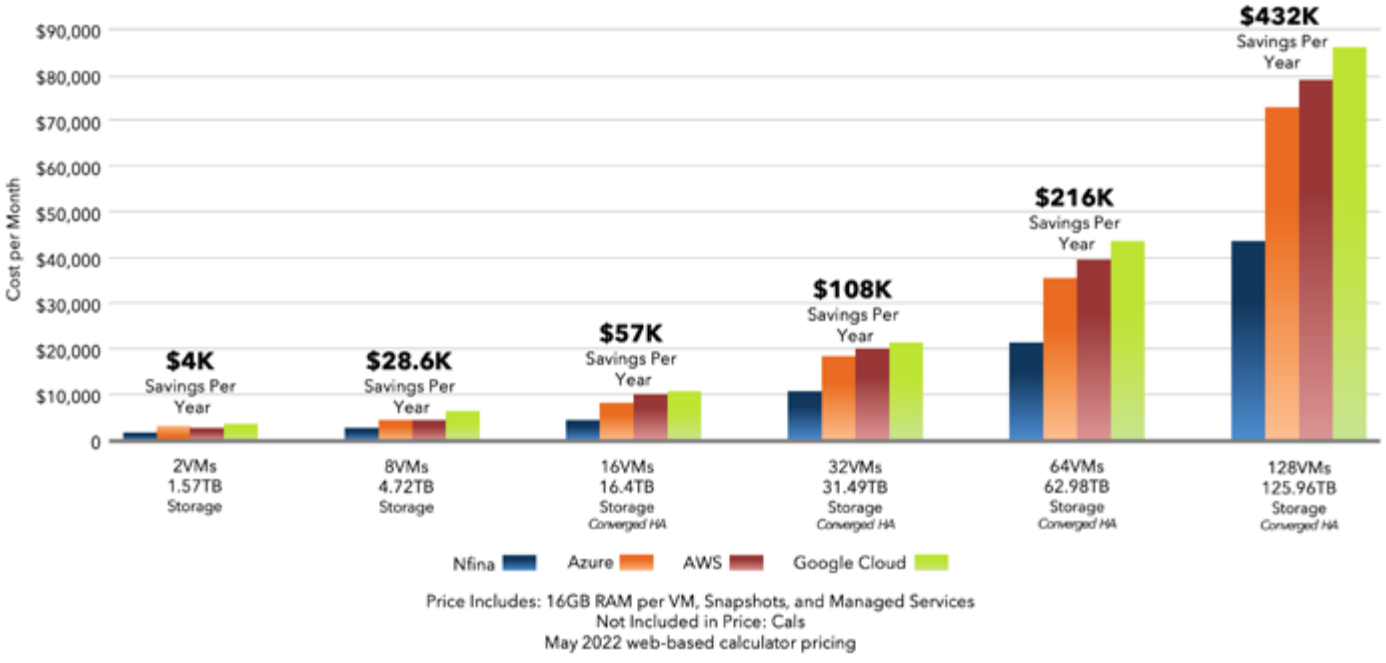
Hybrid cloud data security is paramount for businesses that operate in the modern digital landscape. The hybrid cloud model brings together on-prem and private clouds to provide a seamless environment for data storage, access, and management. However, this also introduces new challenges when it comes to securing sensitive information.

Hybrid cloud security solutions are crucial because many organizations have compliance requirements. Different industries and the government are subject to varying regulations aimed at protecting consumer data privacy and confidentiality. Failing to comply with these standards could attract hefty penalties or even legal action.

In addition, maintaining proper hybrid cloud data protection helps build trust with customers by demonstrating a commitment towards safeguarding their personal information. It can give your organization an edge over competitors as consumers become more conscious about how their data is being handled.

Nfina's Hybrid Cloud vs Public Hyperscale Cloud Cost

Nfina's Hybrid Cloud data protection solutions provide more benefits than the public hyperscale cloud, without the costs and complexity. Typically, Nfina Hybrid Cloud customers save up to 50% over public cloud solutions.



Price Includes: 16GB RAM per VM, Snapshots, and Managed Services
Not Included in Price: Cals
May 2022 web-based calculator pricing

DISASTER RECOVERY WITH RAPID ROLLBACK

Disaster Recovery from Nfina

Disaster Recovery (DR) is an absolute must in this era of 24/7 constant operation and uptime. Threats to business continuity continue to evolve. From ransomware to a hardware failure, to employee error, to natural disaster, a variety of events can cause outages, and the costs of downtime is very high, even for brief incidents. It's up to organizations to be prepared. But how do businesses choose the best disaster recovery strategy while also making the most of limited resources and budgets?

When there is a disruption to your environment, you need to be able to get your organization back up quickly. Disasters can come from anywhere. Readiness is not something that you address occasionally or when it's time to recover for real. It must be a daily focus and is something that many midsize and small organizations cannot do by themselves. Preparing for a disaster or outage takes time, resources, and staff that can better be used elsewhere.

To gain a better understanding of how costly downtime can be, Nfina recommends placing a value to your data and what it means to your business. Do you have 50 employees, 200, 1,000 or more? What's the cost of their downtime? If you are unable to access your data, are you able to generate quotes, access and ship inventory, or view and keep appointments? How many clients have been forced to find another supplier, or can their online orders be submitted? All these issues can be a reality if a disruption or outage occurs. Each have a cost that must be considered when applying a value to your data. Once you have calculated the business value for your data, then you will have a better understanding of what you should budget for Disaster Recovery.

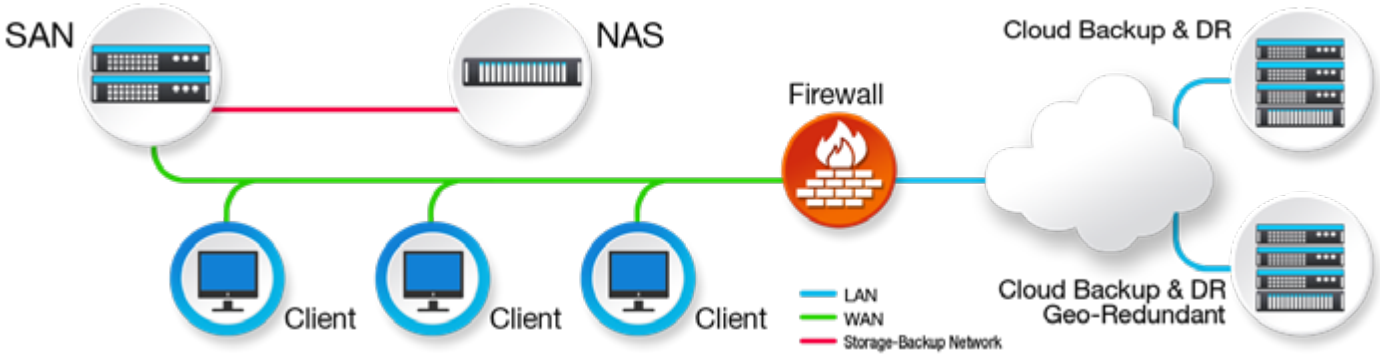
- **Create a disaster recovery plan.** Knowing what steps need to be taken before a disruption occurs is crucial for a complete and rapid recovery of normal operations.
- **Reduce risk with geo-redundancy.** Nfina's Hybrid Cloud solutions allow you to recover your data no matter where it resides, recover on-premises and from the cloud.
- **Test your backups and DR plan.** You can't wait until a disaster occurs to find out if there's a problem with your backups. Nfina-View software provides simple single click DR testing.
- **Monitor your on-premises and cloud environments.** Nfina-View software gives you the ability to monitor and manage your hardware and data through a single interface ensuring data availability across your on-premises and cloud environments.
- **Restore your data.** Nfina-View software provides rapid disaster recovery allowing you to failover in minutes not hours or days. Failover and rollback are simple single click operations and do not require rebuilding and repopulating data.
- **A complete end-to-end solution includes managed services.** Nfina's team of engineers have decades of real-world experience eliminating concerns related to staff expertise, workload, or the need to contact multiple vendors.

Affordable DR with Business Continuity

We combine on-site compute in your own private cloud with the security of public cloud backup & disaster recovery at an affordable monthly cost. We also include Managed Services that allow your business to off-load IT operations to us or your Nfina MSP Partner, enabling you to focus on your business goals while we deal with the challenges of an optimized IT environment. Nfina's Hybrid Cloud solutions are economical enough to be affordable for businesses of any size and make it simple and easy to safeguard business continuity. We customize a hybrid multi-cloud solution to fit each client's individual architecture requirements. Making sure critical data is protected, and accessible is crucial to disaster recovery. Nfina's Hybrid Cloud solutions allow you to recover when it's real.

Summary

Shown below is a typical Hybrid Cloud/Disaster Recovery Professional Solution typology. Critical data is stored on-site and at geo-redundant off-site locations. Nfina-Store, a software management tool included with our Hybrid Cloud and DR Solutions, is designed to create and manage data storage pools. Nfina-View Software which is also included, allows you to monitor your systems, create immutable snapshots, and test your failover procedures. If a disaster or ransomware attack occurs, your business can restore data with one-click as if the event never happened.



Shawn Gentle — "Be Secure, and Don't Overspend"

Financial Advisor
Gentle Family Wealth Partners, LLC
★★★★★

"Total hardware solutions from desktops to servers to redundant data storage with real time network monitoring and forward-thinking vision of our needs. Complete solutions, high competency with fast response times and affordability all combined."

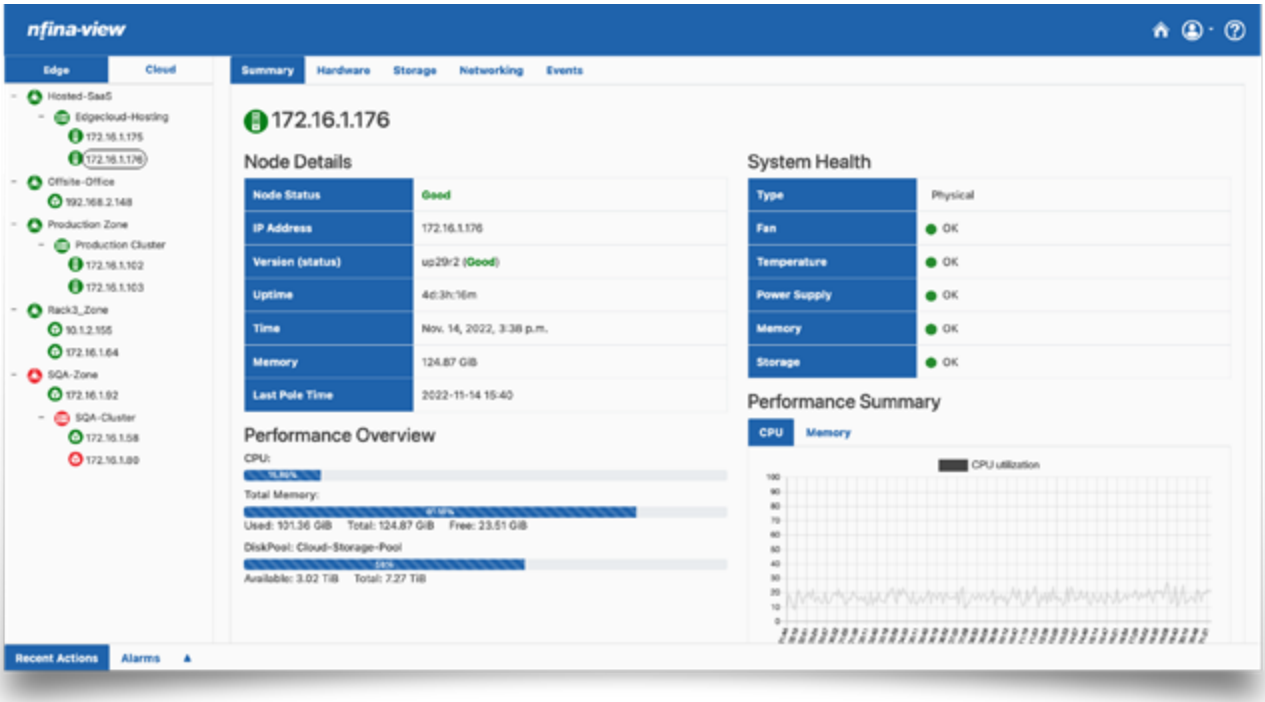
Visit nfina.com/testimonials for more customer reviews.

REMOTE MANAGEMENT AND FAILOVER SOFTWARE

Nfina-View Unified Management Dashboard

Remote monitoring and failover software

Nfina-View™ is a cloud-based unified management dashboard built to improve IT responsiveness and efficiency by enabling IT administrators and Managed Service Providers (MSPs) to see vital information for their organization at a glance. Nfina-View integrates data across your IT ecosystem, including servers, storage pools, and networking. The dashboard offerings a single, summarized view of your IT ecosystem and allows for monitoring and managing your on-prem and cloud infrastructure. Nfina-View is for organizations of all industries and sizes, with its interface providing real-time and historical data on system state and performance. Nfina-View is designed for hybrid IT and supports variable deployment possibilities, including fully on-prem, private cloud, public cloud, colocation, multi-cloud and hybrid cloud.



Nfina-View Advantages

– Real-time monitoring with system health at a glance
– Visibility and management from a single dashboard
– Customizable proactive alerting
– Rapid disaster recovery allowing you to Failover in minutes not hours or days
– Automated Disaster Recovery Testing
– In the event of a ransomware attack or other corruption, the built in Rollback feature allows instant restoration of system state to a known good point in time
– Failover, Rollback, and Disaster Recovery Testing are simple operations that do not require rebuilding and repopulating data

With Nfina-View's Summary view, you can see the health of your IT ecosystem at a glance. Quickly view zones, clusters, and node details such as status, IP address, uptime, memory health, CPU utilization, memory and DiskPool information. Hardware details provides information on the health of the power supplies, fans, motherboard voltages, and hard drives. Storage Pool details provide information for the storage pool status, capacity, Zvols, datasets, read cache, snapshots, and clones. Network details display the host name and interface details such as IP address, MAC address, speed, model, Tx/Rx errors, drops, and status. All sensor readings are reported, and any errors trigger alerts can be set to notify administrators of a potential issue state and performance. Nfina-View is designed for hybrid IT and supports variable deployment possibilities, including fully on-prem, private cloud, public cloud, colocation, multi-cloud and hybrid cloud.

Unlike competitive dashboards, Nfina-View provides on-prem and cloud monitoring, plus provides Failover, Rollback, and Disaster Recovery Testing capabilities. Failover, Rollback, and Disaster Recovery Testing are simple operations and do not require rebuilding and repopulating data.

Nfina-View removes complexities associated with shifting workloads from one site to another by incorporating site-to-site Failover and Rollback operations. If the primary system fails or a proactive shift of your workloads is necessary, you can Failover and restore operations at a secondary location to keep downtime at a minimum. Nfina-View includes the ability to restore entire system states to an earlier point in time using built in Rollback functionality. This is especially useful during a ransomware attack which has corrupted the IT ecosystem. The rollback functionality can have all the customers data back online within minutes of performing the rollback operation. Nfina-View also includes automated disaster recovery testing that easily allow administrators to power on and connect to virtual machines in the DR location.

Read the full data sheet here: https://nfina.com/nfina-view/

Customer Reviews

Every testimonial from Nfina reflects an authentic experience working with us, which is why we value transparency and honesty above all else. Each review serves as a reminder of why we do what we do – provide reliable technology solutions. You can read all the reviews we received directly at https://www.capterra.com/p/10005773/Nfina-Technologies/reviews/

CLOUD HOSTING

Benefits of Cloud Hosting with Nfina

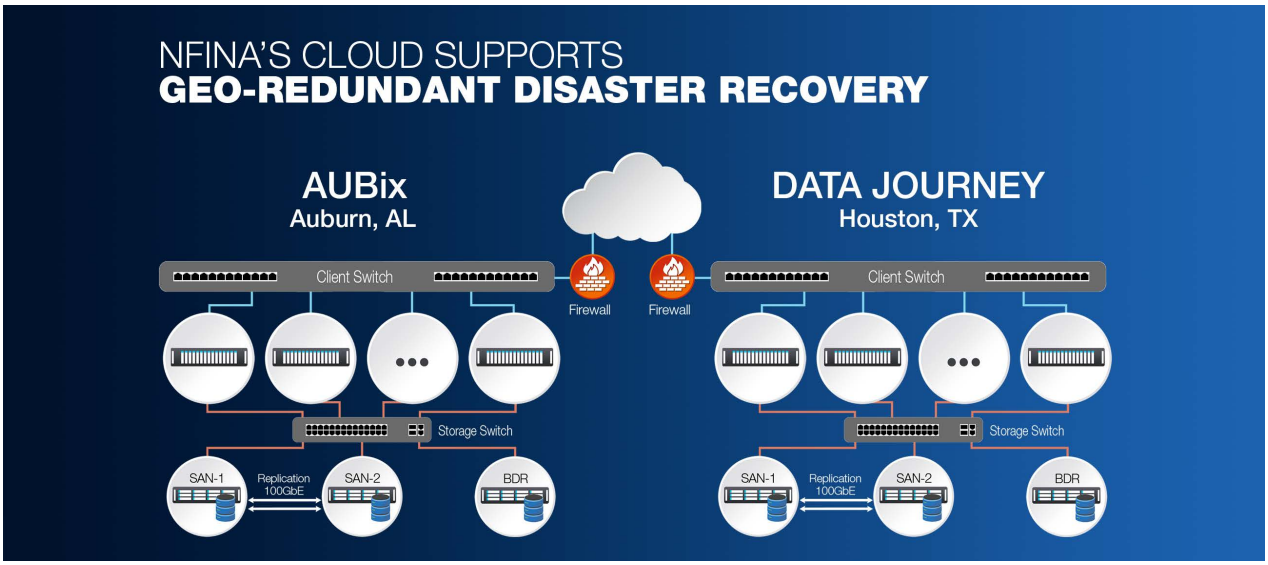
In today's digital age, businesses are seeking new ways to streamline their operations, enhance their online presence, and save money. With unparalleled flexibility, scalability, and cost-effectiveness, cloud hosting has revolutionized how we store and access data. If you're considering moving to the cloud, Nfina Technologies Cloud is a great choice. Nfina-Cloud offers more benefits in comparison to the public Hyperscale Cloud.

Built with our Servers and Storage

Nfina manufactures, sells, and supports its Server and Storage solutions from its headquarters in Mobile, AL. Our systems are made in the USA and utilized by many of the top companies in the world. The Nfina-Cloud is built with our hardware and maintained by our computer engineering experts. We stand behind our products by including an industry-leading, five-year warranty on all our Server and Storage products.

Built on a Fully Redundant Clustered Architecture

Nfina's Hypervisors and SAN storage systems utilize High Availability (HA) technology to provide fault-tolerance and redundancy to our customers. We design our systems to ensure there is no single point of failure present within the system architecture. In addition, Nfina operates in state-of-the-art data centers which are equipped with redundant systems. All network feeds, power feeds, network switches, firewalls, NICs, and storage system components are fully redundant to ensure component failure does not cause any downtime for our customers. Furthermore, our high-performance infrastructure ensures excellent speed and reliability for seamless operations. With the Nfina-Cloud, you will enjoy uninterrupted access to your applications and data.



Designed for Maximum Uptime

Since all devices and feeds in Nfina's cloud are clustered and redundant, there is no single point of failure. The failover time minimizes any outage down to minutes per year.

24/7 US Based Email and Phone Support

Nfina's HQ is in Mobile, Alabama. All Design, Support, and Customer Service Engineers are based in the US. Nfina offers round-the-clock support from our knowledgeable Engineers who are ready to assist with any technical issues or concerns. Their responsive customer service ensures smooth communication and prompt resolutions whenever needed. If you call or email for Nfina support, you get one of our Engineers to assist you.

Competitive Pricing

Nfina offers competitive pricing per vCPU, per GB of RAM, and per TB of storage when compared to other cloud vendors. Network packages are unmetered, and there are no ingress/egress charges to retrieve your data.

Data Center

For Geo-redundancy, our cloud is hosted in two world-class data centers. AUBix, in Auburn, AL and RANA in Lexington, KY. Both data centers are built to Nfina's redundancy standards including redundant UPS, N+1 generator backup and N+1 redundant cooling.

White Glove Service

Nfina has very responsive computer engineering support experts that help with migration to our cloud, as well as troubleshooting, application patching, help desk, support, backups, restoration, etc.

No Learning Curve

No scouring through books and the internet to learn how to setup your own cloud hosting. We have the technology and the experts to host your next compute and data solution.

CLOUD HOSTING

Supports Multiple Locations and Geo-Redundant DR

Nfina's Cloud Hosting Technology offers multiple geographic redundant disaster recovery sites. We can support storage array snapshots (one-to-many and many-to-one) as well as a Veeam® Cloud Connect™ for multiple clouds and disaster recovery. Many of our hyperscale competitors only offer geo-redundant storage and no direct support when you need it most.

Daily Storage Array Snapshot Backups

Nfina's base cloud offering includes a weeks worth of daily snapshots at no additional charge. Snapshots can be taken at any time interval that you prefer.

Security

Nfina utilizes many of the industry's top security products to protect and monitor the cloud infrastructure. By following cybersecurity best practice, Nfina ensures that your data is protected from bad foreign actors (i.e., Ransomware). Nfina systems are capable of rollbacks to restore VMs, LUNs, and File within minutes of an attack if all countermeasure protections fail. Our data centers have world-class physical security controls which include perimeter fencing, 24/7 monitoring, cameras, badge scanners, fingerprint scanners, and SOC II certification audits to prove we are ready to handle your most sensitive data.

Supports Veeam Cloud Connect and Backup Products

Nfina is a Veeam partner and can provide optional Veeam backup protection at the VM level for Nfina's cloud as well as from Microsoft's® Azure™ (i.e. Office 365™, Email, Exchange™, SharePoint™, etc.).

Flexible Networking

Nfina provides unmetered bandwidth options, including dedicated circuits if required. We also provide multiple firewall options, including hosted, Fortinet® with duo factor authentication, and we'll even support your own firewall.

Migrating to the Cloud

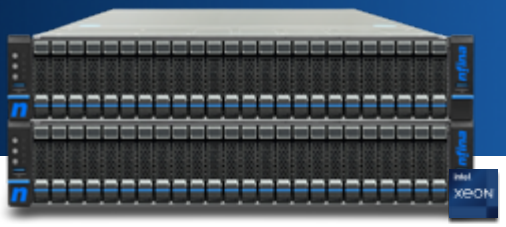
Migrating from premise-based computing to cloud-based computing is straightforward for all forms of Linux® and Windows® servers and applications. Nfina's Professional IT services resources are readily available to help you perform these tasks.

Summary of Benefits

When examining the move to Nfina's Cloud or Hybrid-Cloud, compare our benefits to the competitors:

– Built with Nfina Servers & Storage
– Fully Redundant Clustered Architecture
– VMware® Based Cloud
– Designed for Maximum Uptime
– 24/7 US Email and Phone Support
– Competitive Pricing
– White Glove Service
– No Learning Curve
– Supports Geographic DR
– Includes a Week of Daily Array Snapshot Backups
– Unmetered Bandwidth
– Highly Secure
– Redundant Network Feeds
– Redundant Power Feeds
– Migration Services Available
– Supports Veeam® Cloud Connect
– Supports Veeam® Backup
– Flexible Network / Firewall
– Flexible Licensing
– Dedicated Circuits Available

HARDWARE SOLUTIONS



9424R-SAN

- High-Availability Dual-Controller Clustering
- Unlimited Snapshots and Clones
- On-site and Off-site Data Protection
- Copy-on-Write data protection
- Nfina-View™ Monitoring Software included, provides failover recovery in minutes
- Nfina-Store™ Storage Mgmt. Software, included with Immutable Snapshots
- 2 x Dual-socket rack-mount servers
- Up to 4 x Gen. 5 Intel® Xeon® Scalable Processors, 32 cores, 4.1GHz per processor
- 4TB, 4800MHz max memory capacity per chassis
- Up to 24 Hot-swap NVMe or SSDs per chassis
- 2 x Hot-swap 800W AC per chassis
- PCIe: 4 x Gen5 x16 and 2 x Gen5 x8 per chassis

9412R-SAN

- High-Availability Dual-Controller Clustering
- Unlimited Snapshots and Clones
- On-site and Off-site Data Protection
- Copy-on-Write data protection
- Nfina-View™ Monitoring Software included, provides failover recovery in minutes
- Nfina-Store™ Storage Mgmt. Software, included with Immutable Snapshots
- 2 x Dual-socket rack-mount servers
- Up to 4 x Gen. 5 Intel® Xeon® Scalable Processors, 32 cores, 4.1GHz per processor
- 4TB, 4800MHz max memory capacity per chassis
- Up to 12 Hot-swap SSD/HDDs per chassis
- 2 x Hot-swap 800W AC per chassis
- PCIe: 4 x Gen5 x16 and 2 x Gen5 x8 per chassis

1404R-SAN-S

- Shared Storage High Availability Clusters
- Dual Controller Architecture with JBOD attached storage creates a centralized pool for accessing, protecting, and storing data
- Z1, Z2, Z3, and N-way mirror redundancy options
- Mirrored redundancy ensures No Single Point of Failure. If a JBOD or hard disk is damaged no data loss will occur
- Immutable Snapshots for rapid failover
- Nfina-Store OS offers centralized management of Storage Clusters, Backup and Recovery
- 2 x 1U single-socket rack-mount servers
- 1 x Gen. 5 Intel® Xeon® Scalable Processor, per server
- 2 x SSDs and 1 x NVMe, per server

Shared Storage JBODs

- Up to 8 Nfina JBODs supported with 1404-SAN-S Shared Storage Solution
- Storage can be added incrementally
- Built-in redundancy with Z1, Z2, Z3 and N-way mirroring
- 12Gb/s SAS connectivity
- 2U and 4U models available
- 12 or 24 drive-bay models, SAS SSDs or HDDs supported
- 1 x IPMI management port per JBOD
- Redundant hot-swap power supplies
- Supports NTP for time synchronization and RTC battery backup
- 5 year warranty

9524R-V

powered by VEEAM

- Veeam® Backup Appliance with 24 hot-swap SSDs
- Veeam Backup & Replication Enterprise Plus Platform
- Supports ~ 160 concurrent backup jobs
- Zero-Trust architecture with Immutable snapshots and point-in time recovery
- AI-powered malware detection and YARA content analysis for reinfection avoidance
- Veeam Licensing per VM, Agent (Server or Workstation) or MS 365 user, BYOL allowed
- Veeam Cloud Connect backup hosted in Nfina-Cloud
- Microsoft® Windows Server 2022, or Windows 11 Pro Operating System
- 2 x 5th Gen. Intel Xeon Scalable Processors
- Up to 153.6TB usable storage (drive dependent)
- Add Nfina's 12 or 24-bay JBODs for storage expansion

9512R-V

powered by VEEAM

- Veeam® Backup Appliance with 12 hot-swap SSDs
- Veeam Backup & Replication Enterprise Plus Platform
- Supports ~ 160 concurrent backup jobs
- Zero-Trust architecture with Immutable snapshots and point-in time recovery
- AI-powered malware detection and YARA content analysis for reinfection avoidance
- Veeam Licensing per VM, Agent (Server or Workstation) or MS 365 user, BYOL allowed
- Veeam Cloud Connect backup hosted in Nfina-Cloud
- Microsoft® Windows Server 2022, or Windows 11 Pro Operating System
- 2 x 5th Gen. Intel Xeon Scalable Processors
- Up to 160TB usable storage (drive dependent)
- Add Nfina's 12 or 24-bay JBODs for storage expansion

9424R-Server

- Suitable for multiple applications: stand alone device, HCI, BU/DR, and Hybrid Cloud Solutions
- Choose Microsoft Windows Server or Nfina-Store OS
- Unlimited Snapshots and Clones available
- On-site and Off-site Data Protection available
- Nfina-View™ Monitoring Software with rapid failover available
- Dual-socket rack-mount server
- Up to 2 x Gen. 5 Intel® Xeon® Scalable Processors, 32 cores, 4.1GHz per processor
- 4TB, 4800MHz max memory capacity
- Up to 24 Hot-swap NVMe or SSDs
- 2 rear NVMe and 2 internal NVMe drives
- 2 x Hot-swap 800W AC power supplies

9412R-Server

- Suitable for multiple applications: stand alone device, HCI, BU/DR, and Hybrid Cloud Solutions
- Choose Microsoft Windows Server or Nfina-Store OS
- Unlimited Snapshots and Clones available
- On-site and Off-site Data Protection available
- Nfina-View™ Monitoring Software with rapid failover available
- Dual-socket rack-mount server
- Up to 2 x Gen. 5 Intel® Xeon® Scalable Processors, 32 cores, 4.1GHz per processor
- 4TB, 4800MHz max memory capacity
- Up to 12 Hot-swap SSD/HDDs
- 2 rear NVMe and 2 internal NVMe drives
- 2 x Hot-swap 800W AC power supplies

HARDWARE SOLUTIONS

1404R-Server

- 1U rack-mount dual-socket server
- Choice of 5th Generation Intel® Xeon® Scalable Processors
  - Gold, & Silver available
  - Up to 4.2GHz and 28 cores
- 2TB, 4800MHz max memory capacity
- Up to 4 x 3.5" hot-swap drives
- 1 x M.2 NVMe connectors
- 2 x Hot-swap 860W AC power supplies
- 1 x 1GbE dedicated management port
- IPMI 2.0, KVM over LAN
- 2 x 1GbE LAN ports

Nfina's high-performance servers are versatile solutions suitable for any business application, from Virtualized environments to SAN, Hybrid Cloud, Shared Storage, and Hyperconverged solutions. Our 4408T and 4508T-AI products can be utilized as a desktop or rack-mount server or workstation.

4408T-Server

- Dual-socket rack-mountable tower server
- Choice of 5th Generation Intel® Xeon® Scalable Processors
- 4TB, 4800MHz max memory capacity
- Up to 8 hot-swap drives
- 4 x NVMe drives supported (optional)
- 2 x M.2 NVMe internal connectors
- 2 x Hot-swap 1200W AC power supplies
- 1 x 1GbE dedicated management port
- IPMI 2.0, KVM over HTML5, Redfish API
- 2 x 10GbE LAN ports
- PCIe: 4 x Gen5 x16 and 2 x Gen5 x8

144T-Server

- Mid-size tower, single-socket server
- Choice of Intel® Xeon® E-2400 Family Processors
- 128GB, 4400MHz max memory capacity
- Fixed drive bay options:
  - 4 x 3.5" SSD/HDDs –**or**–
  - 4 x 2.5” SSD/HDDs w/ adapters –**or**–
  - 8 x 2.5” SSD/HDDs w/ drive cage kit
- 1 x M.2 NVMe internal slot
- 1 x 400W AC power supply
- 1 x 1GbE dedicated management port
- 2 x 1GbE LAN ports
- PCIe: 2 x Gen5 x8 and 2 x Gen4 x4

4508T-AI Workstation

- Built for high-precision AI computing workflows
- Choose from Windows® 11 Pro, Red Hat® Linux® 8.6, and Unbuntu™ Linux® 22.04 Operating Systems
- Up to 2 x NVIDIA® RTX 6000 Ada GPUs, 48GB
  - 18,176 CUDA, 568 Tensor, and 142 RT cores
- NVIDIA® RTX 6000 Ada GPUs support:
  - NVIDIA RTX Virtual Workstation (requires license)
  - CUDA™ 12.5, OpenCL™ 3.0, and DirectCompute™ Compute APIs
  - DirectX™ 12, Shader Model™ 6.8, OpenGL® 4.66, Vulkan® 1.36 Graphics APIs
- NVIDIA AI Enterprise™ AI software optional (license w/ support required)
- Intel oneAPI™ AI software included
- Up to 2 x NVIDIA® L40S GPUs, 48GB, also available
- Dual-socket AI Workstation (desktop or rack-mountable)
- Choice of 5th Generation Intel® Xeon® Scalable Processors
- Intel CPUs are equipped with AI acceleration in every core
  - Speeds up training and deep-learning inference
  - Eliminates the need to add additional discrete accelerators
- Up to 8 hot-swap drives support:
  - 4 x SSD/HDDs and 4 x NVMe/SSD/HDDs
- 2 x M.2 NVMe PCIe slots
- Up to 16 DIMMs, 5600MT/s DDR5
  - Up to 1.5TB capacity
- Robust storage capacity

A Few Of Our Happy Customers

ARES · LINE-X · AIPAC · Gentle Family Wealth Partners · Clear Rate Communications
CommerceOne · CCB Community Bank · Cadence Bank · Indiana Bankers Association · FCB Florida Community Bank
MRA Montgomery Radiology Associates · Carolina Partners in Mental HealthCare, PLLC · University of South Alabama School of Computing · Chapin Hall at the University of Chicago · Chemeketa Community College
Wilson Lumber Established 1949 · The Lathan Company · Allegheny Financial Group · Morris Bart Personal Injury Lawyers · Hand Arendall Harrison Sale Attorneys at Law

HARDWARE SOLUTIONS

604JBOD-A

- 4U rack-mount enclosure
- 24 x 3.5” or 2.5” hot-swap drive bays
- Up to 4 x 2.5" hot-swap NVMe or SSDs
- 12Gb/s SAS connectivity capable
- Storage capacity dependent upon drive type
- 1 x SAS expander
- 4 x Mini-SAS HD dual ports
- Redundant 1000W hot-swap power supplies
- Supports NTP for time synchronization and RTC battery backup
- 1 x IPMI port for remote monitoring of resources and fan/power management
- Multiple JBODs can be connected at once
- 5 year warranty

6224JBOD-B

- 2U rack-mount enclosure
- 24 x 2.5” hot-swap drive bays
- 12Gb/s SAS connectivity capable
- Storage capacity dependent upon drive type
- 1 x SAS expander
- 4 x Mini-SAS HD ports
- Redundant 650W hot-swap power supplies
- Supports NTP for time synchronization and RTC battery backup
- 1 x IPMI port for remote monitoring of resources and fan/power management
- Multiple JBODs can be connected at once
- 5 year warranty

602JBOD-B

- 2U rack-mount enclosure
- 12 x 3.5” or 2.5” hot-swap drive bays
- 12Gb/s SAS connectivity capable
- Storage capacity dependent upon drive type
- Dual SAS expanders for failover/recovery and load balancing
- 4 x Mini-SAS HD ports
- Redundant 650W hot-swap power supplies
- Supports NTP for time synchronization and RTC battery backup
- 1 x IPMI port for remote monitoring of resources and fan/power management
- Multiple JBODs can be connected at once
- 5 year warranty

Nfina's JBODs are an easy way to add incremental storage to existing servers and SANs for maximum storage capacity and longevity. They are also instrumental components of Nfina's Shared Storage and Hyperconverged Solutions.

Hyperconverged Virtualization Architecture

The Datacenter has evolved from the traditional (non-integrated) subsystems to a software-defined unified solution. Hyperconverged Infrastructure combines storage, compute, virtualization, clustering software resources, and networking resources into a single integrated system. For clustering and virtualization, Hypervisors run a multi-tasking software that distributes the application loads on Virtual Machines (VM's). Examples of vendors and implementation of this software include: VMware (ESXi), Microsoft (Hyper-V, Azure stack), and Red Hat (KVM).

In the hyperconverged architecture, the storage is controlled by a virtual machine running the Nfina-Store™ storage software on the hypervisor and the storage network can be as simple as direct connect Ethernet or Fibre Channel between nodes. VMware based systems running Nfina-Store utilize pass-through mode to access the storage directly from the 12G backplane, thus insuring low latency IOPs.

This solution is very cost effective, especially with the Gen. 5 Scalable servers now available from Intel with the higher core count CPUs.The storage is very similar to the traditional SAN arrangement (both SSD's and HDD spinners and NVMe caching are supported), as well as the iSCSi, NFS, and SMB/CIFS protocols.

This architecture is simple yet very scalable. If one needs more compute, you can easily add another hypervisor (need to also move up to a switched network using switches if a third node is added). If more storage is needed, add more JBODs.The minimum number of clustered servers required is two in Nfina's Hyperconverged HA solution.

For a backup pool, additional large capacity drives may be added to the hyperconverged cluster (up to the limits of the unused bays or by adding an additional hypervisor). Adding an additional hypervisor also adds more cores, which is an advantage when scaling.

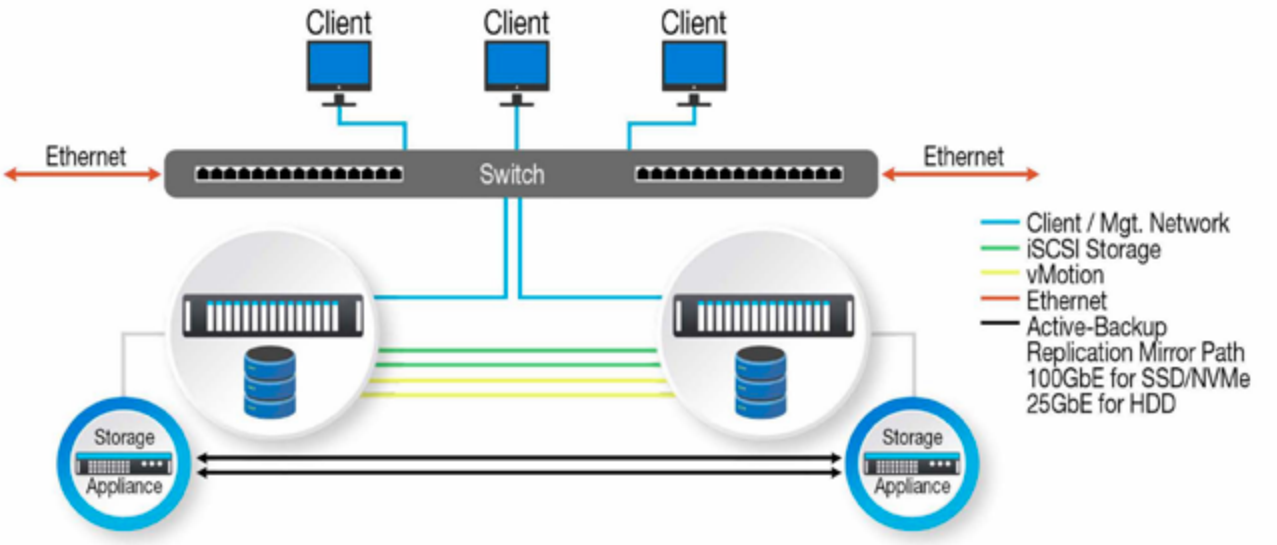


Figure 2. A typical Hyperconverged Architecture

Read the full white paper here: [Converged vs Hyperconverged IT Architecture]

ECO-FRIENDLY SOLUTIONS

At Nfina, our Eco-Friendly Solutions make it easy for our customers to achieve a lower carbon footprint and play a positive role in bringing about a sustainable future. We design technologies and products to help people understand their impact and actions better.

Nfina's Hybrid Cloud and Hyperconverged solutions provide energy efficiency by using high-density, lower-power VMs enabling our customers to scale their digital transformations sustainably by optimizing space, reducing power consumption, and lowering cooling and maintenance costs. Nfina is taking a leadership role in doing what it takes to tackle climate change.

Nfina has been carbon neutral for our operations since opening in 2012.

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