ReliaCloud

discover the ReliaCloud difference

US Signal's ReliaCloud® built on Nutanix™ web-scale architecture provides the flexibility of public cloud with the security and control of a private cloud that resides in your own (or colocated) data center. There is no one-size-fits-all cloud, so we take a best-fit, software-defined approach with options to leverage our top-tier data centers, your private on-premises cloud, or even public clouds, to run your workloads wherever needed, giving you the optimal cloud experience.

Technical Overview

ReliaCloud® builds a personalized cloud for your business that includes:

- From implementation to management of your environment, we've got the expertise needed to fill in the gaps.
- Consumption-based pricing means that you only pay for what you use. Our rigorous sizing process ensures that ReliaCloud fits your unique needs, eliminating spend on excess resources and reducing your total investment.
- With reserve nodes and storage scalability, keep your environment running smoothly without interruptions as it expands. Anticipate short-term projects that need burst capacity and compute power? Reserve nodes can be spun up and spun down as needed.
- Fully featured with at rest encryption, role-based access controls, micro-segmentation, and more, ReliaCloud® is designed to keep your mission critical apps running and all your data safe and recoverable.
- We've obtained certifications for even the most stringent of security requirements (HIPAA, SSAE 18 Type 2 SOC 2, SSAE 18 Type 2 SOC 1, PCI-DSS v3.2 Type 1, ISO/IEC 27001:201).



At-A-Glance:

- Flexible Consumption Options
- Multi-Tenant Capable
- Single-Tenant Capable
- Self-Service Provisioning
- Included US-based support
- Multi-Hypervisor Support
- N+1 Infrastructure
- Predictable Cost Structure

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Infrastructure as a Service (IaaS)

ReliaCloud® Edge, Infrastructure as a Service, is helping our customers embrace a hybrid cloud strategy, while making private cloud consumption as easy as hyperscale public cloud. This is possible as ReliaCloud® Edge is consumed in discrete blocks of complete infrastructure (aka nodes) that contain the CPU, memory, necessary storage and licensing. It's these nodes that construct the clusters which provide the necessary resilience and scalability. Clusters can scale up and down to the 3-node minimum to meet your business needs.

With ReliaCloud® Edge, you get a managed cluster solution in an easy-to-consume package that includes these cloud services:

- Dedicated private cloud cluster leveraging Nutanix AOS hyper-converged software.
- Hosted within a US Signal data center.
- Your choice of Hypervisor Nutanix™ AHV or VMware® ESXi (additional cost).
- US Signal managed cluster and hypervisor.
- Rich user interface and management console.
- Multiple node performance profiles.
- Clusters start at 3 nodes, grows incrementally by one.
- Data encryption at rest for all environments.
- Rich software feature suite, including asyncrynous replication for DR strategies.
- 100% SLA for cluster availability.

On-Premise

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ReliaCloud® Edge On-Premise offers these unique features:

- Optimize high-performance processing for AI and data-intensive applications by bringing the workload closer to the data processing location.
- Address orphaned workloads on-premise by utilizing a cluster with ROBO models, providing a unified solution.
- Run workloads in the data center of your choice, maintaining control over data and addressing data sovereignty concerns.
- Implement a hybrid cloud strategy, allowing nodes on-premise, hosted, or in the public cloud to achieve flexibility.
- Entrust ReliaCloud® Edge On-Prem to manage workloads, freeing up your team to focus on core initiatives. Alternatively, opt for full co-administration support for increased control.
- Access cloud-based OpEx benefits without the need for a complete migration, providing financial flexibility.
- Utilize consumption-based licensing with billing increments down to a day, ensuring cost efficiency.
- Avoid the need to refactor VMs or workloads, simplifying the migration process.
- Choose from various node level options within hosted ReliaCloud® Edge, including the addition of reserved nodes on most types.
- Seamlessly integrate existing assets with a next-generation hyperconverged network for enhanced efficiency.
- Resolve network challenges with a fully managed network-in-a-box solution by US Signal, addressing performance issues effectively.

Disaster Recovery as a Service

Designed to meet the unique needs of organizations of all sizes. Our DRaaS packages cater to small and medium-sized businesses as well as large, highly regulated industries, ensuring critical applications and IT infrastructure remain protected, resilient, and ready to recover from any unforeseen event.

There are three packages available for our ReliaCloud® DRaaS solution:

Starter Package:

Our DRaaS Starter Package is designed for small to medium-sized businesses, offering a cost-effective and simple disaster recovery solution. With 12 cores and 30 Tbs of storage per node, it ensures your critical applications are protected without breaking the bank. Clusters start at a minimum of 3 nodes.

Key Benefits:

- Simplicity and Flexibility: Affordable protection with a robust configuration.
- Agility: Quickly adapt to changing IT needs with our reliable DRaaS.
- Collaboration: Tailored solutions to fit your specific business requirements.
- Comprehensive Service: Integrated DRaaS licensing and support from Minneapolis, Portland, and Washington, DC data centers for optimal disaster recovery.

Advanced Package:

Our Advanced DRaaS Package is formulated for growing businesses with complex IT environments. It offers enhanced flexibility with hardware options and tiered recovery, ensuring scalability as your business expands. This package meets the needs of mid-market companies with critical applications.

Key Benefits:

- Additional Hardware Option: Increased flexibility with additional hardware options with 24 to 36 cores and advanced storage solutions.
- Advanced Licensing: Enhanced DRaaS licensing is supported across Minneapolis, Portland, and Washington, DC regions.
- Recovery Tiers: Support multi-tiered recovery options, including all hot or two tiers of recovery, allowing businesses to prioritize critical applications, ensuring the most important systems are recovered first.

Premium Package:

Our Premium DRaaS Package is for enterprises requiring the highest level of protection and flexibility. Offering access to the full ReliaCloud® EDGE and EDGE On-Prem catalog, this package supports large enterprises and highly regulated industries with complex and extensive IT infrastructures.

Key Benefits

- Customization: Fully customizable DR solutions tailored to match your specific environment.
- Full ReliaCloud® Catalog: Leverage the complete ReliaCloud® EDGE and EDGE On-Premise catalog for a tailored disaster recovery strategy.
- National Availability: Supports a wide range of integrated IT solutions across multiple regions in the United States, including Minneapolis, Portland, Denver, Des Moines, Bend, Phoenix, and Washington.
- Consumption Licensing: Allows businesses to pay based on their actual usage rather than a fixed rate.

Backup as a Service

While we have numerous hyperscale cloud and on-premise backup options, backup in ReliaCloud® (built on Nutanix™) is often a perfect fit.

ReliaCloud® Backup offers:

- Service Provider Options – Choice of hosted in the cloud or on-prem.
- Efficient Backups – In-cluster snapshots with long-term retention options.
  - Integrated Hypervisor – AHV or ESXi integrated and agent-based options. Restore from backup to a secondary data center.
  - Integrated Data Protection – Application-consistent backups with granular recovery options.
  - Microsoft® 365 Backup – Offsite backup for Microsoft® 365 (Outlook, Teams, SharePoint, OneDrive).
  - Secondary Storage Options – Scalable File and Object storage offerings for backup data.
  - WORM – Immutable policy defined storage for a stronger ransomware defense strategy.

Objects

Object storage is designed to be highly scalable to step up to even the largest of storage requirements. Purpose-built hyperconverged objects clusters are highly resilient and offer high performance so you never have to worry about slow downs or glitches.

Leveraging the benefits and features of Nutanix™ software, ReliaCloud® Objects is tuned to perform at an object-class performance profile. The powerful software suite also allows for automatic data tiering, making it simple to reclaim compute capacity from data with loose latency requirements.

Files

Built upon the Nutanix™ Files software-defined platform, ReliaCloud® Files eliminates the requirement of 3rd-party file server appliances and gives you access to files across user workstations in a centralized and protected location. Access to files can be managed via role-based access controls (RBAC), ensuring that security and compliance is upheld.

ReliaCloud® Files is fully kitted out with support for high availability, deduplication, compression, erasure coding, and data at rest encryption just to name a few of the key features. These features are leveraged extensively on our ReliaCloud® Files platforms to enable your users to access data whenever and wherever needed while being cost effective.

Security

AHV application-centric security is a critical component of a zero-trust security posture, which is why ReliaCloud® offers micro-segmentation with layer 2-4 stateful firewall services on each node, enabling the creation of rules for inbound and outbound traffic for AHV workloads. Utilizing Nutanix™ FLOW, the solution ensures that only necessary traffic is permitted, enhancing the security of the environment. (Note that this solution is licensed as an add-on to ReliaCloud® Edge nodes.)

Application-centric Security with Zero Trust Least Privilege:

- Limit users and applications to ONLY the networks and services required for operation.
- Context: A solid understanding of network relationships and traffic patterns is the cornerstone to application-level policy.
- Grouping: Simplification of policy by categorization and grouping of application tiers or policy members.
- Enforcement: Micro-segmentation for granular policy between application tiers, isolation groups or user personas.

Desktop as a Service (DaaS)

ReliaCloud Desktop as a Service (DaaS) is a private cloud desktop platform powered by Nutanix and delivered with Citrix, backed by US Signal managed services. It is designed for organizations that want the flexibility of cloud-delivered desktops without giving up the performance, control, and predictability of private cloud. The solution supports standard desktops, application delivery, centralized profiles and file services, GPU-enabled use cases, backup, and disaster recovery.

Key Benefits

- Private cloud control: Dedicated environments give more control over performance, data placement, network design, and operational boundaries.
- Mature EUC platform: Citrix provides secure access, desktop brokering, application delivery, and policy-based user experience across devices and locations.
- Performance-sensitive workload support: ReliaCloud DaaS supports standard and GPU-enabled desktops, ideal for engineering, AutoCAD, design, & graphics-heavy users.
- Operational simplicity: US Signal manages the cluster, hypervisor, networking, monitoring, support, migration, and lifecycle services.
- Security and recovery built in: The solution includes encryption, role-based access, firewalling, micro-segmentation options, snapshots, replication, object storage, and DR options.
- Proven platform: ReliaCloud DaaS is a mature service with production deployments, established migration motions, and recognition tied to Nutanix Verified Solution badges.