InterSystems Cloud-Hosted Services Overview
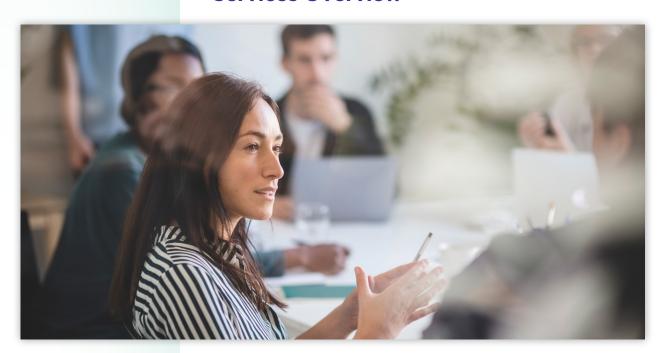

How InterSystems Ensures High Performance, Availability, and Security for its Cloud-Hosted Offerings

Introduction

InterSystems offers a variety of cloud-hosted services for building and delivering cloud-native applications, connecting disparate systems, and breaking down interoperability barriers in diverse environments such as healthcare. Our cloud-based solutions can help you increase business agility, speed up application development and integration efforts, and free up technical resources to work on core business tasks.

> **This overview:**
>
> - Reviews the operational advantages and business benefits of a cloud hosted solution
>
> - Explains how InterSystems delivers, manages, and supports its cloud hosted offerings
>
> - Describes how InterSystems ensures high availability and performance, and robust security for these services

Why Chose a Cloud-Hosted Deployment Model?

Cloud-hosted solutions provide a variety of economic and operational advantages and other business benefits compared to traditional on-premises software solutions. Cloud-hosted offerings can help you avoid capital outlays, simplify operations, make more efficient use of budget and personnel, and improve business agility.

InterSystems®
Creative data technology

Economic Advantages

- **Better TCO:** A cloud-hosted service eliminates up-front capital equipment expenses and removes ongoing infrastructure operations cost and complexity.

- **Pay-as-you-grow scalability:** You can tightly align recurring expenses with evolving business demands and capacity requirements, and avoid overprovisioned and underutilized on-premises compute, storage, and networking resources.

Operational Advantages

- **Rapid deployment and time-to-value:** With a cloud-hosted solution there is no on-premises equipment or software to procure, install, or configure. All the compute and storage infrastructure is deployed in the cloud.

- **Cloud scalability and agility:** You can add capacity on-demand for better business agility.

- **High uptime:** Redundant configurations, high availability architectures, and geo-resiliency ensure continuous service in the event of natural disasters, equipment failures, and certain types of cyberattacks.

- **No infrastructure to support:** The infrastructure is monitored and managed round-the-clock by the service provider.

- **No software maintenance:** Patches and updates including OS, management, and security software, are deployed and updated in the cloud by the provider.

Additional Business Benefits

- **Better use of technical resources:** You can free up staff to focus on value added, strategic tasks, rather than managing infrastructure.

- **Investment protection and future-proofing:** New features and functions (major software releases) are delivered in the cloud by the service provider, driving value and accelerating the pace of innovation.

- **Risk reduction and peace-of-mind:** Cloud-hosted services provide strong security and high service levels, and help you comply with data privacy regulations and cybersecurity frameworks.

InterSystems Cloud-Hosted Services Implementation Overview

InterSystems hosted solutions are deployed on leading cloud services like AWS, Azure, and Google Cloud, and are fully managed by InterSystems experts. We provide an isolated virtual private cloud (VPC) instance dedicated to your organization, along with 24/7/365 system monitoring.

All the cloud compute and storage resources needed to support your implementation are provisioned and managed by InterSystems. Separate DEV, TEST, and LIVE environments can be established to support DevOps methodologies and CI/CD systems and practices.

Robust Availability and Security Features

InterSystems cloud-hosted services are engineered to deliver enterprise-class performance, security, and availability; are backed by a 99.9% uptime SLA; and are designed to support the specific data privacy and compliance needs of industries such as healthcare. Some key architectural features and design attributes include:

- Redundant configurations and load balancing within each cloud data center to optimize performance and resiliency, and protect against hardware failures.

- Data mirroring across cloud availability zones to ensure high availability and protect against data center anomalies, power failures, network outages, etc.

- Optional data replication to a third site in a separate region for geo resiliency.

- A secure network connectivity service, with automatic failover, to reliably connect your on-premises private enterprise network to your VPC.

- Comprehensive identity and access management controls, managed firewall services, and data-at-rest and data-in-motion encryption functionality to prevent unauthorized access, defend against cyberattacks, protect confidential data, and ensure compliance with data privacy regulations like HIPAA and HITECH, and cybersecurity frameworks like HITRUST CSF.

- Optional daily data backups for disaster recovery, with 4-hour recovery time objective (RTO) and 24-hour recovery time objective (RPO) guarantees.

Comprehensive Managed Service Capabilities

Experienced, dedicated InterSystems technical professionals manage your InterSystems deployments on your behalf, allowing your internal team to concentrate on core business tasks. InterSystems managed service responsibilities include:

- Provisioning and administering the underlying cloud compute, storage, networking, and security infrastructure, including patches and upgrades.

- Deploying, maintaining, and updating the InterSystems software stack.

- Designing, configuring, and scaling your InterSystems software instance.

- Monitoring the availability, security, and integrity of the underlying platform and your software instance.

- Overseeing data backup and disaster recovery procedures.

Find out More

InterSystems cloud-hosted services can help avoid infrastructure cost and complexity, accelerate time-to-value, and make the most of your technology resources. The solutions deliver cloud scalability, agility, and extensibility, and are engineered to meet stringent enterprise availability, security, and performance demands. Our experts act as an extension of your team, freeing up your internal resources to focus on innovation.

To learn more about the role of our cloud-hosted solutions in healthcare interoperability, please visit **https://www.intersystems.com/use-cases/ healthcare-interoperability/**