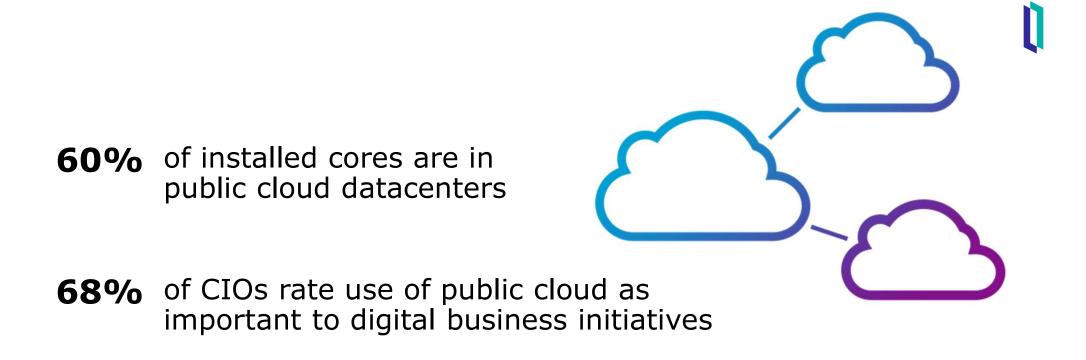


InterSystems in the Cloud

Jeff Fried

Director Product Management, Data Platforms, InterSystems





76% of enterprises use more than one cloud provider

InterSystems Cloud Strategy



Roll out cloud offerings in phases:

- 1. New ways to try, buy, & run in the cloud
- 2. Multi-cloud managed services to simplify operations and reduce TCO
- 3. Targeted PaaS and SaaS offerings

- Support modern devops using containers, Kubernetes, and dynamic configurations
- Leverage new cloud facilities for storage, compute, & intelligence

Cloud Everywhere





IaaS PaaS SaaS

IaaS Offerings



HealthShare

Health Connect

InterSystems IRIS for Health

InterSystems IRIS Data Platform

IaaS (AWS/Azure/GCP)



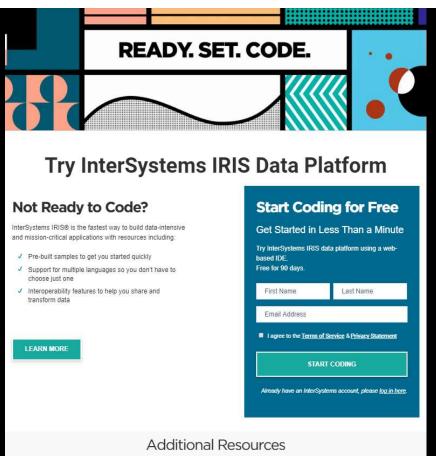


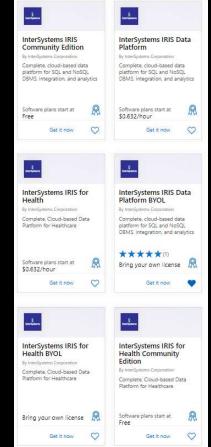


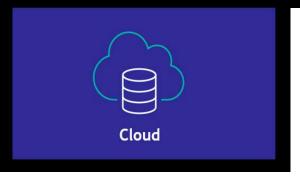


















InterSystems Kubernetes Operator (IKO) 3.5

What is IKO?

- Easy deployment of IRIS in Kubernetes
- Data Management Mirroring, Sharding
- Compute Management ECP Clients
- WebGateways Nginx or Apache
- Free to IRIS users

IKO 3.5

- Simplified TLS Configuration
 - WebGateway
 - ECP
 - Mirroring
 - SuperServer
- WebGateway Improvements
 - Optional Volumes
 - Merge for CSP.ini
- Restart-free CFP & license key updates
- Support for SAM 2.0

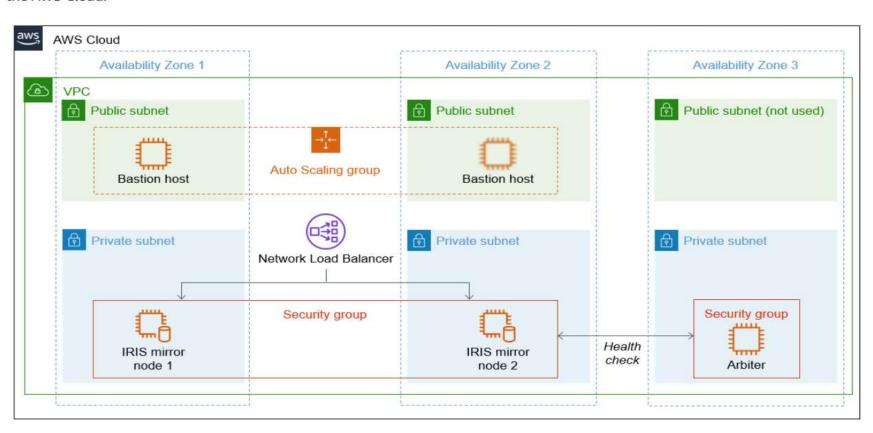






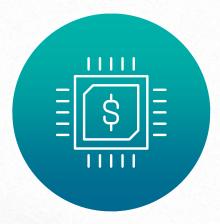
IRIS on the AWS Cloud Quick Start Deployment Guide

Deploying this Quick Start for a new virtual private cloud (VPC) with default parameters builds the following IRIS environment in the AWS Cloud.









Global Fintech Leader with \$5B in Revenue



Publicly Traded with a **\$17B**Valuation



Member of the **S&P 500**

Challenge

Deliver Data in a Clean, Current & Consistent Format









100+ Applications

Different Data in Different Formats & Structures







InterSystems IRIS Impact



Smart Pataletter



Data Integration



Data Storage



Analytics



Data Access



Data Governance and Management

Delivers Real-Time Integrated and Harmonized Data Performs a Wide Range of Financial Calculations

Runs Completely on the AWS Cloud

InterSystems IRIS Impact



Performance

900% increase

Infrastructure

3x less

PaaS Offerings



HealthShare Cloud

Health Connect Cloud

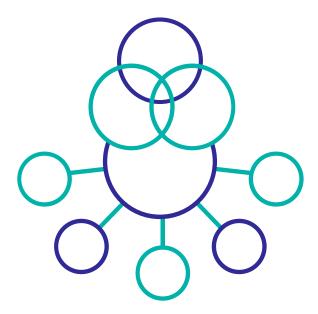
InterSystems IRIS for Health (MS)

InterSystems IRIS Data Platform (MS)

PaaS (AWS/Azure)

Health Connect Cloud

Health Connect Cloud is a Platform-asa-Service offering providing a managed, healthcare integration engine cloud service that delivers high-volume transaction support, process management, and monitoring to support mission-critical applications

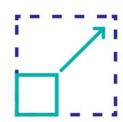


Health Connect Cloud

 At the core of Health Connect Cloud is a high-performance, multi-model data engine that seamlessly handles multiple forms of data at high speed



 Health Connect Cloud easily scales from serving small clinics to handling the transaction volumes of the world's largest and most complex healthcare delivery systems



 Hosted on AWS and available in the US, UK, and Europe regions





Health Connect Cloud Operations



Provisioning

- Cloud Infrastructure Provisioning
- HealthShare Health Connect Deployment

Ongoing Operations

- Scheduled and Monitored Backups
- DB Integrity Checks and Remediation Assistance
- Capacity & Performance Monitoring and Response

Reporting

- Continuous monitoring of customer environment
- Operational and Security Best Practices Insights
- Capacity Planning, Trends and Analysis

High Availability

High-Availability Mirroring

Data Security

- Database Encryption and SSL/TLS Comms
- Secure Architecture for Access Control
- Vulnerability Scanning

Configuration Management

- Cloud Resource Provisioning and Data Retention
- CI/CD Pipeline and Source Control

Support

- InterSystems iService 24/7/365
- Incident Management and Reporting
- SLA commitment of 99.9% availability





Health Connect Cloud **Remove Divisions**

Foster Digital Transformation

Reduce IT Burden



SaaS offerings



InterSystems IRIS Cloud IntegratedML

InterSystems IRIS Cloud SQL

InterSystems FHIR SQL Builder

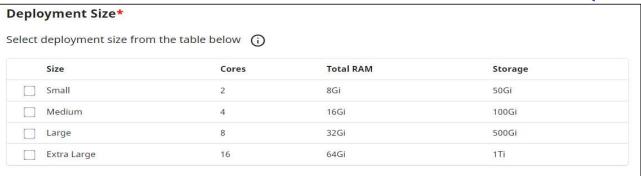
InterSystems FHIR Transformation Service

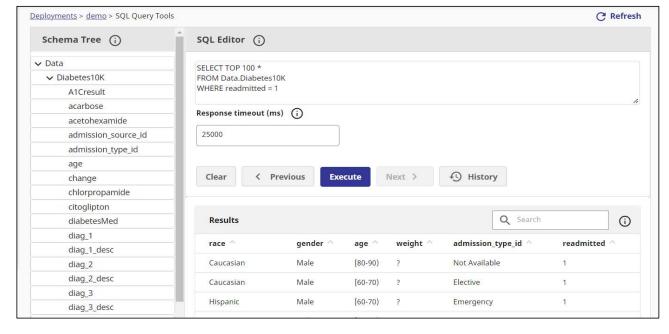
InterSystems FHIR Server



InterSystems IRIS Cloud SQL

- Deploy an IRIS SQL DB endpoint in the cloud in under a minute!
- Fully managed, secure, highly available, cloud-native DBaaS
- On-demand, pay-as-you-go
- T-shirt sizes Choose instance (compute/vCPU) and storage for your use-case
- Import your DDL/schemas and data
- Create indices, run queries in SQL Editor
- Connect client applications via InterSystems JDBC, DB-API, ADO.NET, or ODBC driver



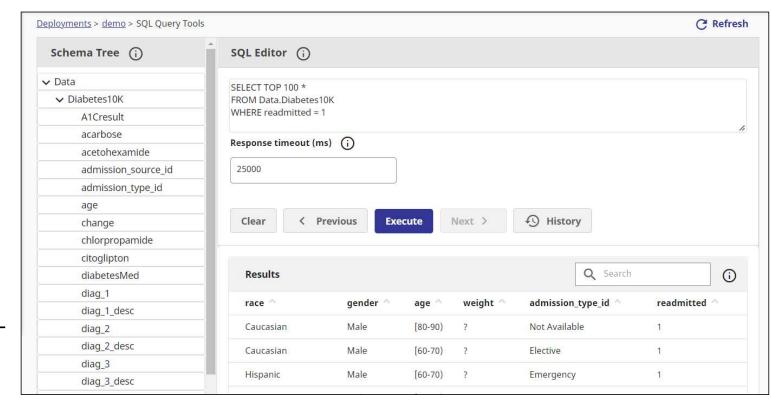


InterSystems IRIS Cloud SQL



Feature Overview

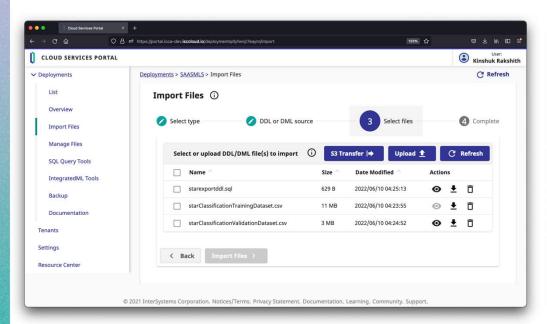
- Backups
- Data Encryption
- SQL Editor
- External connections
 - xDBC, DB-API, .NET
- Import schemas & data
 - Variety of source systems



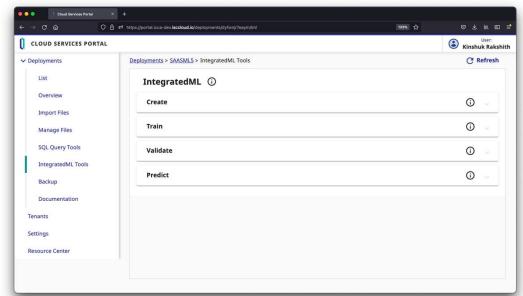
InterSystems IRIS Cloud IntegratedML



Import files



Create Train Validate & Predict

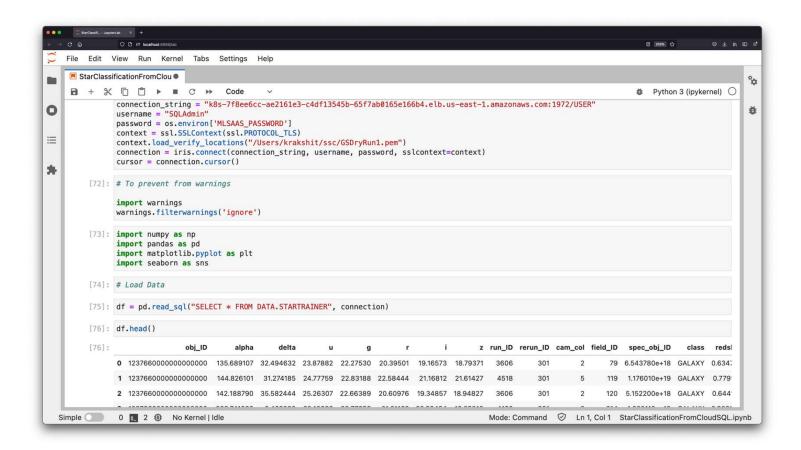


...and that's it.





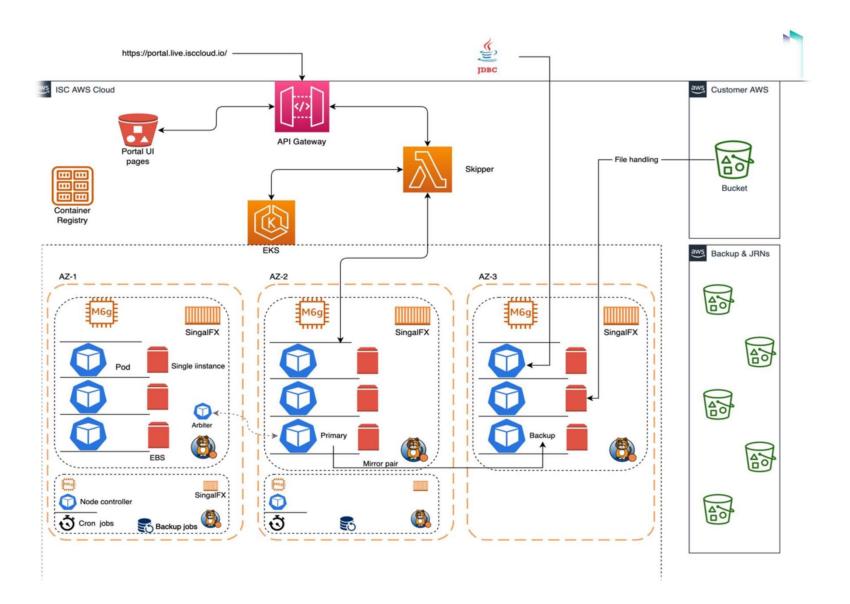
Connect to InterSystems IRIS Cloud Integrated ML service



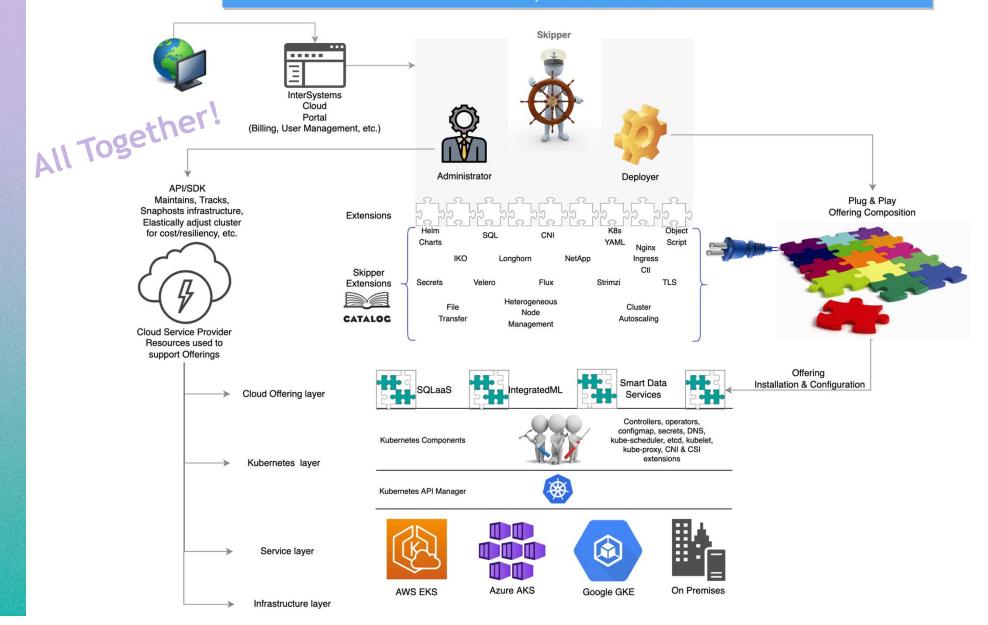
ICCA

InterSystems Core Cloud Architecture refactored

- Composability
- Scalability
- Portability and
- Capabilities



InterSystems Cloud Core Architecture





Our Cloud Offerings



HealthShare

Health Connect

InterSystems IRIS for Health

InterSystems IRIS Data Platform

HealthShare Cloud

Health Connect Cloud

InterSystems IRIS for Health (MS)

InterSystems IRIS Data Platform (MS)

InterSystems IRIS Cloud IntegratedML

InterSystems IRIS Cloud SQL

InterSystems FHIR SQL Builder

InterSystems FHIR Transformation Service

InterSystems FHIR Server

More Services to Come!

- Provider Directory
- Care Community
- Action Engine
- Healthcare Analytics
- Financial Services (4)
- Supply Chain (2)
- Horizontal (3)

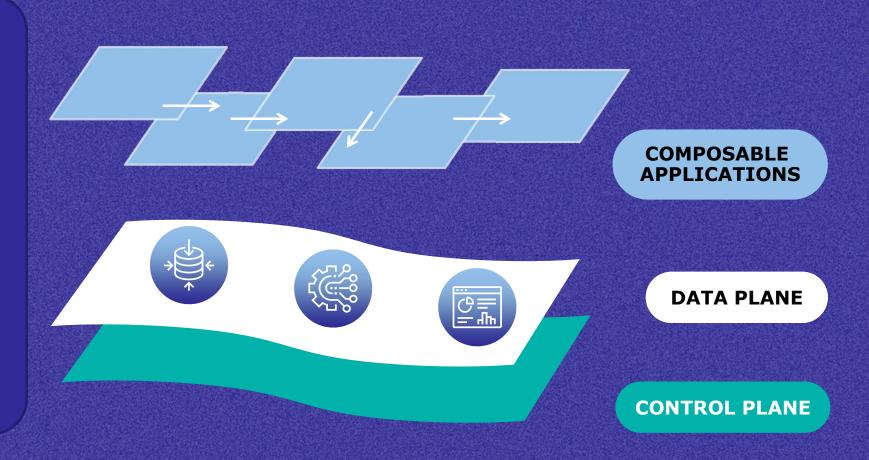
IaaS (AWS/Azure/GCP) PaaS (AWS/Azure) SaaS (AWS)

Smart Data Fabric & Smart Data Services



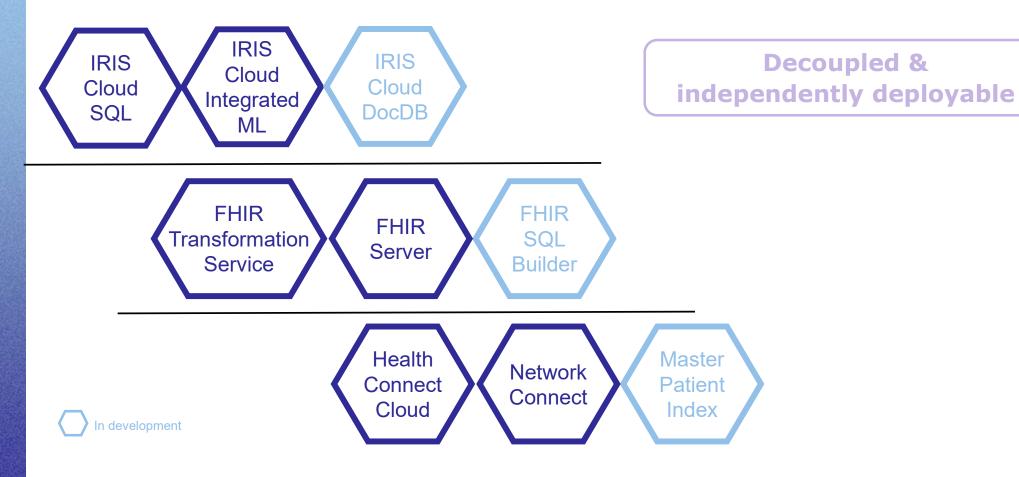


Smart Data Fabric



Composable IRIS Cloud Services





Selected Cloud Deployments













HARRIS ASSOCIATES

FHIR
Transformation
Service

FHIR Server















Health Connect Cloud

Network Connect Master Patient Index







Smart Data Services



Smart Data Services

Customer Data Sources

External Data Providers

InterSystems Data Store





Live/Historical or public/private data



Composable and reusable services



Pre-built solutions by ISC or partners



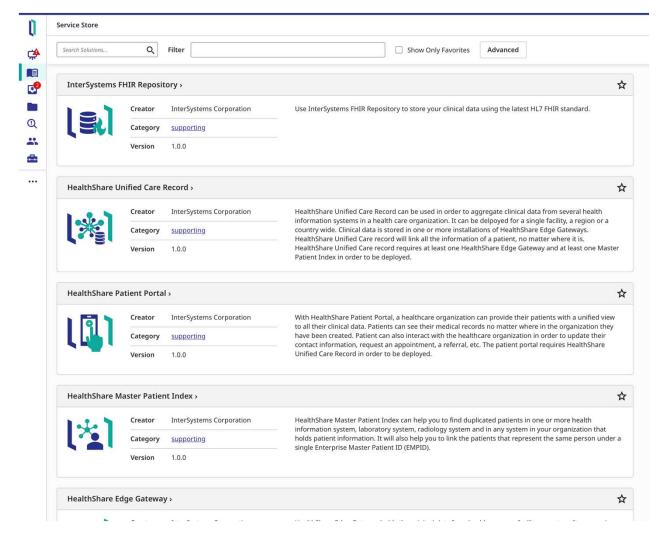
Cross industry solutions to customers

Ingest

Persist

Compute

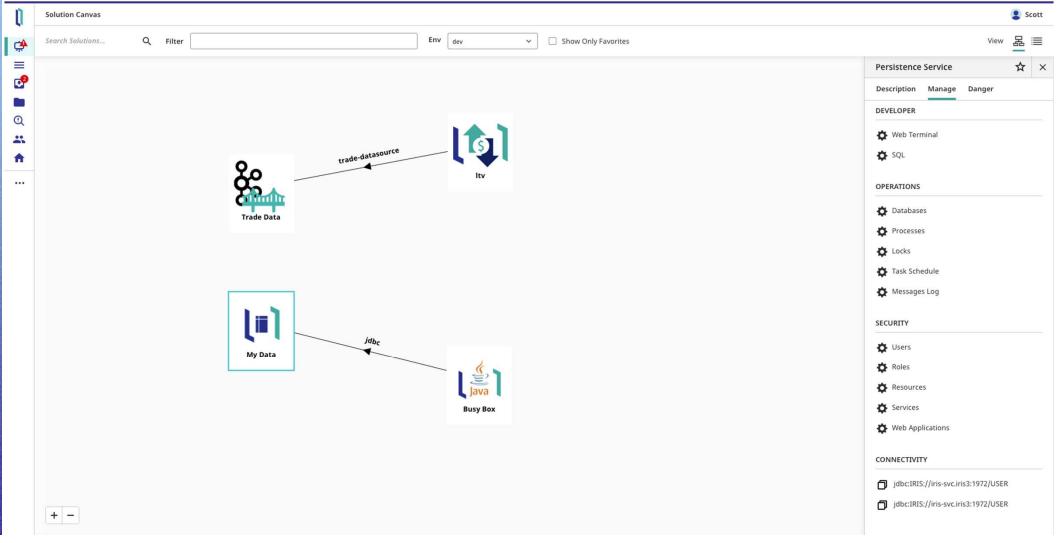
Smart Data Services - Catalog





Smart Data Services – Composition Canvas





Thank you



