



InterSystems First Looks

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InterSystems IRIS Data Platform Version 2019.4 2020-01-28

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InterSystems First Looks

First Looks are brief documents providing hands-on experiences with key InterSystems IRIS® technologies and options. Many can be done on a *free evaluation instance*; just click the **TRY IT** icon to learn how to get one! All can be done on a licensed InterSystems IRIS instance.

- [Development Environment](#)
- [Java Interoperability](#)
- [.NET Interoperability](#)
- [Other Interoperability](#)
- [Interoperability Productions](#)
- [Analytics](#)
- [Architecture](#)
- [Deployment](#)
- [Security](#)

The [InterSystems IRIS documentation](#) provides detailed information on all of the topics explored in the First Looks.

1 Development Environment

[First Look: Atelier with InterSystems Products](#)

Introduces the Atelier plug-in for Eclipse and shows you how to use it to create and run a simple class file.

[InterSystems IRIS Basics: Connecting an IDE](#)

Explains how to connect an IDE to an InterSystems IRIS instance.

2 Java Interoperability

[First Look: JDBC and InterSystems Databases](#)

Introduces connecting to InterSystems databases via JDBC: quick facts, a look at shared memory connections, and a chance to try it for yourself.

[First Look: InterSystems IRIS Native API for Java](#)

Introduces how to access InterSystems globals from a Java application using InterSystems IRIS Native.

[First Look: Java Object Persistence with XEP](#)

Introduces how to store and retrieve persistent Java objects using the XEP object persistence API: quick facts, a hands-on demo, and comparison with other Java persistence options.

First Look: The Java Gateway and InterSystems Products

Introduces the ability of InterSystems products to interoperate with Java components through the Java Gateway.

3 .NET Interoperability

First Look: InterSystems IRIS Native API for .NET

Demonstrates how to access InterSystems globals from a .NET application using IRIS Native.

First Look: ADO.NET and InterSystems Products

Introduces connecting to InterSystems products via the InterSystems ADO.NET Managed Provider.

First Look: .NET Object Persistence with XEP

Introduces how to store and retrieve persistent .NET objects using the XEP object persistence API: quick facts and a hands-on demo.

First Look: The InterSystems .NET Gateway

Introduces working with the InterSystems .NET Gateway.

4 Other Interoperability

First Look: ODBC and InterSystems Databases

Introduces connecting to InterSystems databases via ODBC.

First Look: ObjectScript

Introduces the ObjectScript language and shows how it can be used to access data in multiple ways.

First Look: Globals

Introduces the concept of globals, the underlying storage structure for the InterSystems IRIS data platform.

First Look: InterSystems SQL

Introduces InterSystems SQL, the usage of common SQL statements with InterSystems products, and a unique way to optimize query performance.

First Look: Optimizing SQL Performance with InterSystems Products

Introduces InterSystems SQL query optimization techniques.

First Look: Developing REST Interfaces in InterSystems Products

Introduces developing REST interfaces in InterSystems products to provide access to databases and applications.

5 Interoperability Productions

First Look: Connecting Systems Using Interoperability Productions [PDF]

Introduces productions.

First Look: Managed File Transfer (MFT) with Interoperability Productions [PDF]

Introduces the Managed File Transfer (MFT) feature, which enables easy inclusion of a third-party file transfer service directly into an InterSystems interoperability production.

First Look: Data Transformations [PDF]

Introduces the DTL Editor and how to transform data into a different format within an interoperability production.

6 Analytics

First Look: SQL Search with InterSystems Products [PDF]

Introduces support for SQL text search, which provides semantic context searching of unstructured text data.

First Look: Text Analytics with InterSystems Products [PDF]

Introduces support for Natural Language Processing (NLP) text analytics, which provides semantic analysis of unstructured text data in a variety of natural languages.

First Look: InterSystems IRIS and UIMA

Introduces how InterSystems IRIS implements and complements a UIMA analysis pipeline.

7 Architecture

First Look: Scaling Systems for User Volume with InterSystems Distributed Caching

Introduces the use of distributed caching enabled by ECP to scale for user volume.

First Look: Deploying an InterSystems Sharded Cluster

Introduces sharding and how it can be used to scale InterSystems-based applications for data volume.

First Look: Data Resiliency and Mirroring

Introduces the crash recovery, high availability, and disaster recovery capabilities of InterSystems products.

8 Deployment

First Look: InterSystems Cloud Manager

Introduces InterSystems Cloud Manager and shows you how to use it to deploy InterSystems products in a public cloud.

First Look: InterSystems Products in Docker Containers

Introduces Docker containers and running InterSystems products in containers.

InterSystems IRIS Basics: Installation

Guides the user through a single-instance installation of InterSystems IRIS for use with First Looks.

9 Security

First Look: Role-Based Access Control

Introduces role-based access control in InterSystems products: quick facts and a chance to try it for yourself.

First Look: LDAP and InterSystems Products

Introduces using an LDAP server to authenticate and assign privileges to users of InterSystems products.

First Look: Database Encryption

Provides a brief, simple, hands-on introduction to InterSystems database encryption tools.

First Look: The InterSystems Public Key Infrastructure (PKI)

Introduces public-key cryptography, Certificate Authorities (CAs), and PKI as available in InterSystems products.