



Informatica® Data Ingestion and Replication
July 2024

Introduction to Data Ingestion and Replication

© Copyright Informatica LLC 2019, 2024

This software and documentation are provided only under a separate license agreement containing restrictions on use and disclosure. No part of this document may be reproduced or transmitted in any form, by any means (electronic, photocopying, recording or otherwise) without prior consent of Informatica LLC.

U.S. GOVERNMENT RIGHTS Programs, software, databases, and related documentation and technical data delivered to U.S. Government customers are "commercial computer software" or "commercial technical data" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, duplication, disclosure, modification, and adaptation is subject to the restrictions and license terms set forth in the applicable Government contract, and, to the extent applicable by the terms of the Government contract, the additional rights set forth in FAR 52.227-19, Commercial Computer Software License.

Informatica, Informatica Cloud, Informatica Intelligent Cloud Services, PowerCenter, PowerExchange, and the Informatica logo are trademarks or registered trademarks of Informatica LLC in the United States and many jurisdictions throughout the world. A current list of Informatica trademarks is available on the web at <https://www.informatica.com/trademarks.html>. Other company and product names may be trade names or trademarks of their respective owners.

Portions of this software and/or documentation are subject to copyright held by third parties. Required third party notices are included with the product.

The information in this documentation is subject to change without notice. If you find any problems in this documentation, report them to us at infa_documentation@informatica.com.

Informatica products are warranted according to the terms and conditions of the agreements under which they are provided. INFORMATICA PROVIDES THE INFORMATION IN THIS DOCUMENT "AS IS" WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT ANY WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND ANY WARRANTY OR CONDITION OF NON-INFRINGEMENT.

Publication Date: 2024-07-12

Table of Contents

- Preface 4**
 - Informatica Resources. 4
 - Informatica Documentation. 4
 - Informatica Intelligent Cloud Services web site. 4
 - Informatica Intelligent Cloud Services Communities. 4
 - Informatica Intelligent Cloud Services Marketplace. 4
 - Data Integration connector documentation. 5
 - Informatica Knowledge Base. 5
 - Informatica Intelligent Cloud Services Trust Center. 5
 - Informatica Global Customer Support. 5
- Chapter 1: Introducing Data Ingestion and Replication..... 6**
 - Home page. 6
 - My Services page. 8
 - Explore page. 9
- Index..... 12**

Preface

Read *Introduction* to get an overview of the ingestion types in the Data Ingestion and Replication service.

Informatica Resources

Informatica provides you with a range of product resources through the Informatica Network and other online portals. Use the resources to get the most from your Informatica products and solutions and to learn from other Informatica users and subject matter experts.

Informatica Documentation

Use the Informatica Documentation Portal to explore an extensive library of documentation for current and recent product releases. To explore the Documentation Portal, visit <https://docs.informatica.com>.

If you have questions, comments, or ideas about the product documentation, contact the Informatica Documentation team at infa_documentation@informatica.com.

Informatica Intelligent Cloud Services web site

You can access the Informatica Intelligent Cloud Services web site at <http://www.informatica.com/cloud>. This site contains information about Informatica Cloud integration services.

Informatica Intelligent Cloud Services Communities

Use the Informatica Intelligent Cloud Services Community to discuss and resolve technical issues. You can also find technical tips, documentation updates, and answers to frequently asked questions.

Access the Informatica Intelligent Cloud Services Community at:

<https://network.informatica.com/community/informatica-network/products/cloud-integration>

Developers can learn more and share tips at the Cloud Developer community:

<https://network.informatica.com/community/informatica-network/products/cloud-integration/cloud-developers>

Informatica Intelligent Cloud Services Marketplace

Visit the Informatica Marketplace to try and buy Data Integration Connectors, templates, and mapplets:

<https://marketplace.informatica.com/>

Data Integration connector documentation

You can access documentation for Data Integration Connectors at the Documentation Portal. To explore the Documentation Portal, visit <https://docs.informatica.com>.

Informatica Knowledge Base

Use the Informatica Knowledge Base to find product resources such as how-to articles, best practices, video tutorials, and answers to frequently asked questions.

To search the Knowledge Base, visit <https://search.informatica.com>. If you have questions, comments, or ideas about the Knowledge Base, contact the Informatica Knowledge Base team at KB_Feedback@informatica.com.

Informatica Intelligent Cloud Services Trust Center

The Informatica Intelligent Cloud Services Trust Center provides information about Informatica security policies and real-time system availability.

You can access the trust center at <https://www.informatica.com/trust-center.html>.

Subscribe to the Informatica Intelligent Cloud Services Trust Center to receive upgrade, maintenance, and incident notifications. The [Informatica Intelligent Cloud Services Status](#) page displays the production status of all the Informatica cloud products. All maintenance updates are posted to this page, and during an outage, it will have the most current information. To ensure you are notified of updates and outages, you can subscribe to receive updates for a single component or all Informatica Intelligent Cloud Services components. Subscribing to all components is the best way to be certain you never miss an update.

To subscribe, on the [Informatica Intelligent Cloud Services Status](#) page, click **SUBSCRIBE TO UPDATES**. You can choose to receive notifications sent as emails, SMS text messages, webhooks, RSS feeds, or any combination of the four.

Informatica Global Customer Support

You can contact a Global Support Center through the Informatica Network or by telephone.

To find online support resources on the Informatica Network, click **Contact Support** in the Informatica Intelligent Cloud Services Help menu to go to the **Cloud Support** page. The **Cloud Support** page includes system status information and community discussions. Log in to Informatica Network and click **Need Help** to find additional resources and to contact Informatica Global Customer Support through email.

The telephone numbers for Informatica Global Customer Support are available from the Informatica web site at <https://www.informatica.com/services-and-training/support-services/contact-us.html>.

CHAPTER 1

Introducing Data Ingestion and Replication

Use Data Ingestion and Replication to ingest and replicate data, at scale and with low latency, from database, application, file, or streaming data sources to cloud data warehouses, data lakes, object storage, streaming systems, or databases.

Data Ingestion and Replication provides the following ingestion solutions:

- **Application Ingestion and Replication.** Propagates data from objects in Software-as-a-Service (SaaS) and on-premise applications to cloud-based data lakes, data warehouses, and event streaming platforms. An application ingestion task can transfer a point-in-time snapshot of data in a source schema to a target in a batch operation. An application ingestion task can also incrementally propagate change data and schema changes in near real time from a source to a target on a continuous basis. If you select the combined initial and incremental load type, the application ingestion task performs an initial load and then automatically switches to incremental load processing of data changes.
- **Database Ingestion and Replication.** Replicates data from source objects in a relational or non-relational database to multiple types of cloud and on-premises targets. A database ingestion and replication task can transfer a point-in-time snapshot of all source data in a schema to a target in a batch operation. A database ingestion and replication task can also incrementally propagate DML data and schema changes in near real time from a database source to a target on a continuous basis. If you select the combined initial and incremental load type, the database ingestion and replication task performs an initial load and then automatically switches to incremental load processing of data changes.
- **File Ingestion and Replication.** Transfers a large number of files of different types between on-premises and cloud repositories. You can use File Ingestion and Replication to track and monitor file transfers.
- **Streaming Ingestion and Replication.** Transfers real-time streaming and machine data from selected sources to selected messaging systems and batch targets.

Home page

The Home page provides a guided and unified experience for Data Integration and Data Ingestion and Replication users.

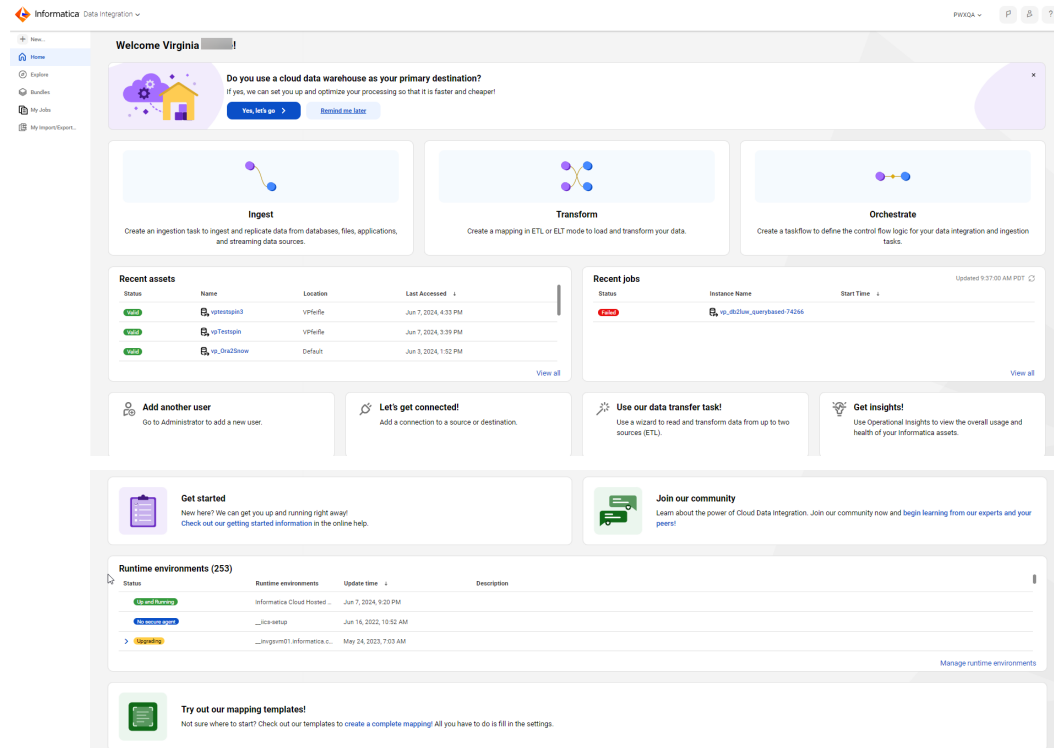
Regardless of whether you select Data Ingestion and Replication or Data Integration on the **My Services** page, the unified **Home** page appears.

The **Home** page is customized for each user in your organization based on the following criteria:

- Your organization's licenses

- Your user roles
- Whether you've configured a primary cloud data warehouse
- Whether your organization has any runtime environments
- Whether you've created assets or run jobs

For example, if you use Data Ingestion and Replication only, the **Transform**, **Orchestrate**, **Use our data transfer task!**, and **Try out our mapping templates!** panels do not appear. Or if you're an Admin user who uses both Data Ingestion and Replication and Data Integration and has already created assets and run jobs, you might see a **Home** page that looks like the following image:



The Home page displays some or all of the following panels:

- **Do you use a cloud data warehouse as your primary destination?** This panel appears if you haven't selected a cloud data warehouse as your primary destination. It is optional. If you define a primary cloud data warehouse, it won't be used by default when you create an ingestion and replication task.
- **Ingest, Transform, and Orchestrate.** These panels are the primary portals to Data Ingestion and Replication and Data Integration functionality. Click **Ingest** to create Data Ingestion and Replication tasks to ingest and replicate your data. Click **Transform** to create data transfer tasks or mappings to load and transform your data.. Click **Orchestrate** to create taskflows to define the control flow logic for your tasks. If you've chosen a primary cloud data warehouse, the panel names include the data warehouse type, for example, **Transform into Snowflake**.
- **Recent assets** and **Recent jobs.** These panels display the assets you've most recently created or modified and the jobs you've most recently run.
- **Add another user** and **Let's get connected!.** These panels allow you to add users and create connections in Administrator.
- **Use our data transfer task!.** This panel starts the wizard for creating a data transfer task.
- **Get insights!.** This panel provides access to Operational Insights service where you can monitor Data Ingestion and Replication jobs.

- **Get started** and **Join our community**. These panels provide Data Integration getting started information or access to the Data Integration community for help.
- **Runtime environments**. This panel displays the status of the runtime environments that are available to you and lets you jump to Administrator to manage runtime environments.
- **Try out our mapping templates!**. This panel enables Data Integration users to create a mapping based on a pre-defined mapping template.

The navigation bar on the left side provides commands that you can use to perform the following tasks:

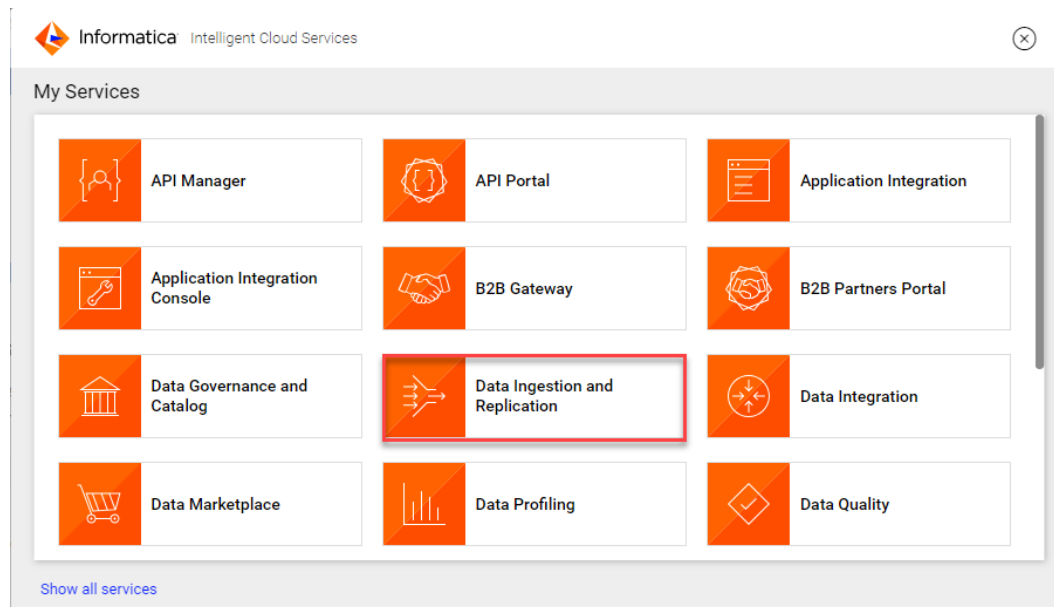
- **New**. Open the **New Asset** dialog box to create an application ingestion and replication, database ingestion and replication, file ingestion and replication, or streaming ingestion and replication task. You can also create Data Integration assets, depending on your organization's licensing.
- **Home**. Return to the Home page.
- **Explore**. Explore all projects and assets, create projects, and access your assets.
- **Bundles**. Create and manage bundles of assets to share with your organization or other organizations.
- **My Jobs**. View the status of all of your ingestion jobs.
- **My Import/Export Logs**. View the status of your imports and exports.

When you switch to another service such as Administrator or Monitor, the options in the navigation bar change to suit the service.

My Services page

The **My Services** page displays the services that your organization is licensed to use and any common services that are available under the same license, such as Administrator and Monitor. If your organization has trial licenses for additional services, the page also displays those services.

The following image shows an example **My Services** page:



To use Data Ingestion and Replication, click **Data Ingestion and Replication** or **Data Integration**. Both options display the unified Home page that provides access to both Data Ingestion and Replication and Data Integration assets and jobs.

Explore page

Use the **Explore** page to work with your Informatica Intelligent Cloud Services projects, folders, and assets.

Finding projects and assets on the Explore page

Use any of the following methods to find your projects and assets on the **Explore** page:

- Explore by projects and folders. View all projects or select a particular project.
- Explore by asset types. View all assets or view assets of a particular type.
- Explore by tags. View assets associated with a particular tag.
- Search for projects, folders, or assets. To search for projects, folders, and assets in the organization, view the **Explore** page by **All Projects**, and then enter a name or description in the Find box. Or, view the **Explore** page by **Asset Types** and to narrow your search, select an asset type from the **All Assets** list. Then, in the Find box, enter a name or description in full or part.
- Sort the search results. Sort the **Explore** page by name, asset type, last update date, create date, or description. When you sort by type, the **Explore** page groups assets by asset type. It does not list the asset types in alphabetical order.
- Filter the objects on the page. To filter objects, click the **Filter** icon. To apply a filter, click **Add Filter**, select the property to filter by, and then enter the property value. The filters that are available depend on how you view the page. You can specify multiple filters.

For example, to find all the assets in your organization with the tag SW Region, view the **Explore** page by **All Assets** and then click the **Filter** icon. Add the **Tags** filter and enter "SW Region."

If the result size is large, for example, over 1000 objects, all the objects appear on the **Explore** page but the total number of objects that displays at the top and bottom of the page can be approximate for a minute or so.

Tip: Filtering is available on other pages in addition to the **Explore** page. For example, on the **Import Assets** page, you can filter by status to find the assets that imported successfully.

Explore

All Assets








All Assets (7)

None Selected

Filter

Tags: east

Add Filter

<input type="checkbox"/>	 Name ↑	Type	Updated On	Location	Tags
<input type="checkbox"/>	  EC_AcctExps	Mapping	Oct 1, 2020, 2:34 PM	ECDistr_SC\EC_Accts	map, east, map, east, l...
<input type="checkbox"/>	 MapLkUpSQLOR	Mapping	Mar 21, 2024, 4:51 PM	Default\Tag	east
<input type="checkbox"/>	 MapLkUpSQLOR	Mapping	Mar 19, 2024, 5:05 PM	Default	east
<input type="checkbox"/>	 MapLkUpSQLOR -	Mapping	Mar 21, 2024, 4:49 PM	Default	east
<input type="checkbox"/>	 MappingTask41	Mapping Task	Mar 21, 2024, 4:51 PM	Default\Tag	map, east

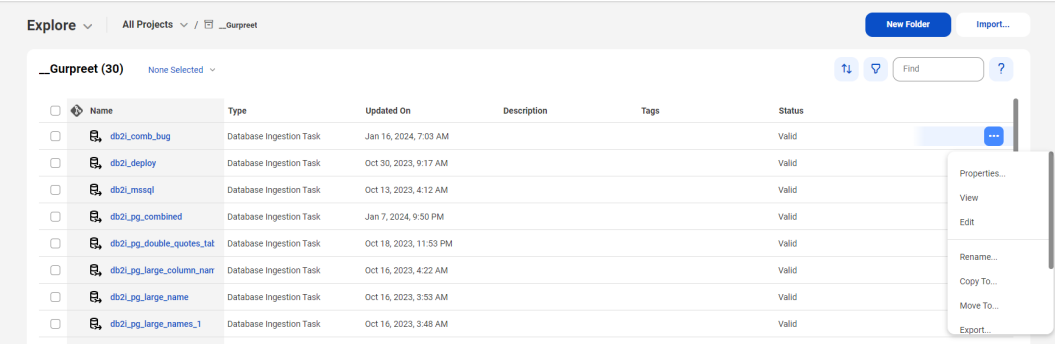
You can see projects, folders, and assets for all of the services that you use. If you select an asset to open it or perform an action, and the asset is created in a different service than the one you have open, the service opens in a new browser tab.

You can't use the following characters:

? ' | { } " ^ & [] / \

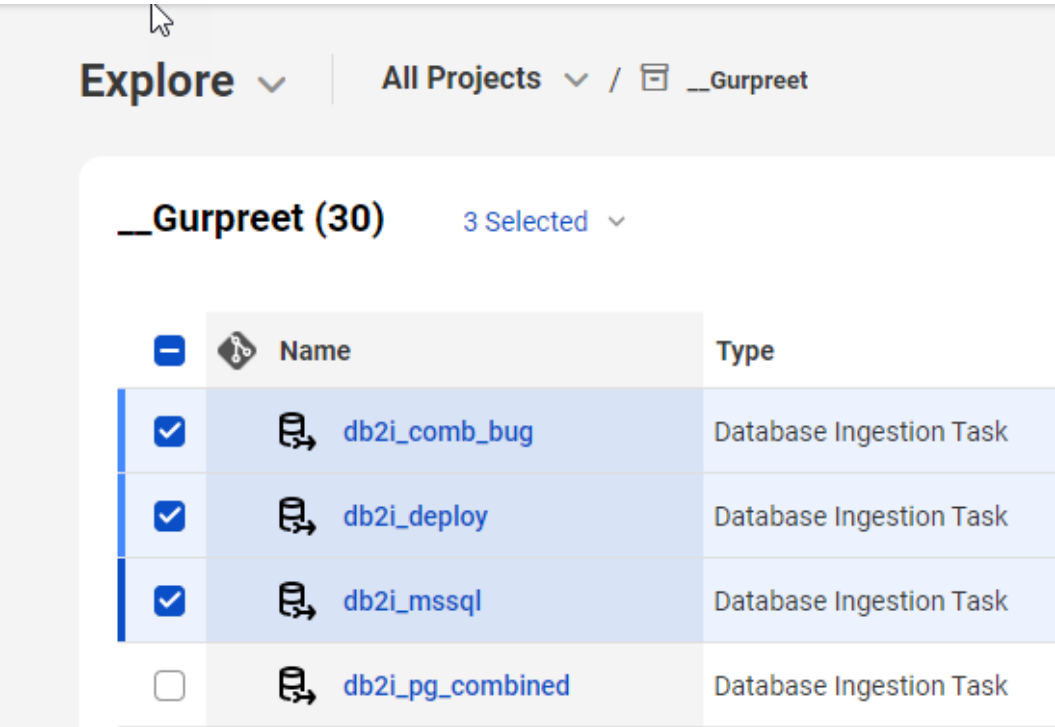
Working with projects and assets on the Explore page

Perform actions on projects, folders, and assets on the **Explore** page. To see what actions you can perform on an object, in the row that contains the object, click the **Actions** icon, as shown in the following image:



The Actions menu lists the actions you can perform based on your user role privileges and the permissions specified for the selected object. For example, your user role might have privileges to view and run tasks but not to delete tasks. You might not have permission to run a particular task because of the permissions set by the creator of the task.

You can also perform an action on multiple objects at one time. Select the check box to the left of each object, or select the Select All check box to select all of the objects that are displayed on the current page. The following image shows the Select All check box in use:



After you select the objects, click **Actions** in the row of any of the selected objects.

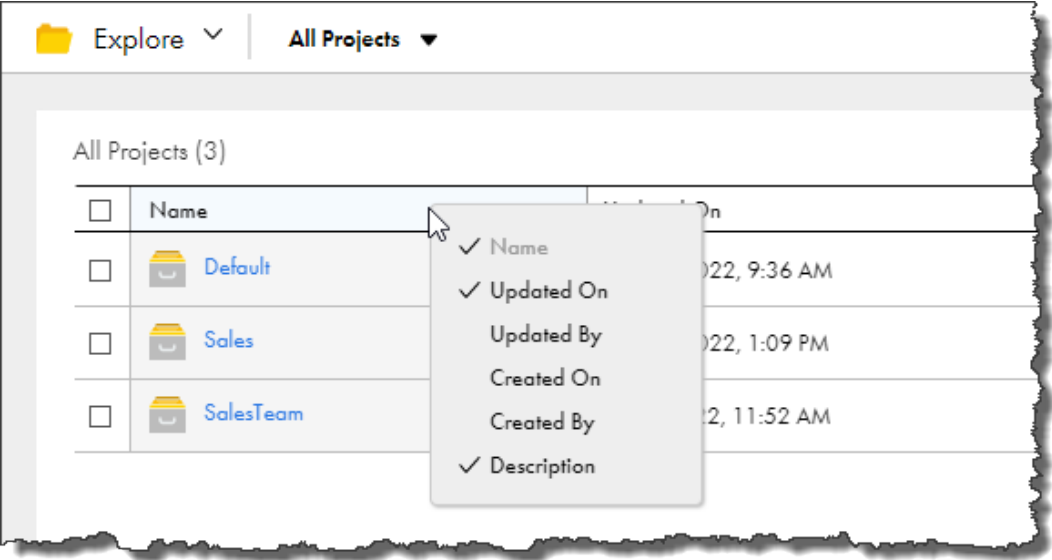
The Actions menu will list the actions available for the selected assets based on your user role and privileges.

Alternatively, you can use the Selection menu to choose the action, as shown in the following image:

Customizing the Explore page

You can display, hide, or rearrange columns on the **Explore** page. To display or hide columns, right-click the column heading area and select or clear the column headings in the list. The headings in the list depend on whether projects, assets, or tags are in view on the **Explore** page.

In the following example, the **Updated By**, **Created On**, and **Created By** columns will be hidden when **All Projects** is selected:



To rearrange columns, click a column heading and drag it to a different location.

INDEX

A

Actions menu [9](#)
assets [9](#)

C

Cloud Application Integration community
URL [4](#)
Cloud Developer community
URL [4](#)

D

Data Ingestion and Replication
My Services page [8](#)
Data Integration community
URL [4](#)

E

Explore page [9](#)

F

filtering [9](#)
finding assets and projects [9](#)

I

Informatica Global Customer Support
contact information [5](#)
Informatica Intelligent Cloud Services
web site [4](#)

M

maintenance outages [5](#)
Mass Ingestion
overview [6](#)
My Services page
Data Ingestion and Replication service [8](#)

P

project folders [9](#)
projects [9](#)

S

searching for assets and projects [9](#)
status
Informatica Intelligent Cloud Services [5](#)
system status [5](#)

T

trust site
description [5](#)

U

upgrade notifications [5](#)

W

web site [4](#)