



Informatica® Mass Ingestion
May 2024

Getting Started with Mass Ingestion

Informatica Mass Ingestion Getting Started with Mass Ingestion
May 2024

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Preface

Read *Getting Started* for information about the steps you need to perform before you begin configuring ingestion tasks in Mass Ingestion. It assumes that you have a working knowledge of Informatica Intelligent Cloud Services.

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

Getting Started with Mass Ingestion

Before you configure an ingestion task, verify that all prerequisite tasks have been completed. Most of these tasks are completed in the common Administrator service.

Step 1. Check system requirements

Check the following items:

- For Mass Ingestion Databases minimum system requirements, see *Mass Ingestion Databases > Mass Ingestion Databases system requirements*.
- To determine the web browsers that are compatible with Mass Ingestion and the operating systems that are supported for the Secure Agent, check the Product Availability Matrix (PAM) for Informatica Intelligent Cloud Services (IICS) on the Informatica Network at <https://network.informatica.com/community/informatica-network/product-availability-matrices/>
- To determine the source and target types and versions that are supported for each ingestion type, check the KB article [What are the supported sources and targets for IICS Cloud Mass Ingestion service?](#).

Step 2. Set up an organization.

If you are the administrator, set up an organization from the **Organization** page in Administrator. An organization is a secure area within the Informatica Intelligent Cloud Services repository that stores your licenses, user accounts, ingestion tasks, and information about jobs and security.

Then, configure users, user groups, and user role permissions for the organization.

If your organization has the Organization Hierarchy license, you can also create one or more sub-organizations within your organization. You can create sub-organizations to represent different business environments in your company. For example, you might create separate sub-organizations to represent your development, testing, and production environments.

For more information, see "Organizations" in the Administrator help.

Step 3. Download and install a Secure Agent

On the **Runtime Environments** page in Administrator, download a local Secure Agent and install it. A Secure Agent is a lightweight program that runs tasks and enables secure communication across the firewall between your organization and Informatica Intelligent Cloud Services.

Note: Mass Ingestion does not support the Informatica Cloud Hosted Agent, runtime environments in cloud environments, and serverless runtime environments.

When you download and install a Secure Agent, a *Secure Agent group*, also called a runtime environment, is created. A Secure Agent group can contain one Secure Agent or multiple agents if your licensing allows it.

After you enable services and connectors for the Secure Agent group, the components and packages based on your selections are downloaded and an associated runtime environment is created. For more information, see "Secure Agent Groups" in the Administrator help.

If you use a Secure Agent group with multiple agents, an available agent will be picked from the active agent list to run your jobs. If the active agent stops running, jobs can switch to another available agent in the group. For the switch to occur, you must Stop and Resume the job. Mass Ingestion Applications and Mass Ingestion Databases support Secure Agent groups with multiple agents for initial load jobs, except jobs that have a Kafka target. Also, Mass Ingestion Databases supports Secure Agent groups for incremental load and combined initial and incremental load jobs that have an Oracle or SQL Server source, subject to the following limitations:

- The job cannot have a Kafka target.
- The job cannot have persistent storage enabled.
- The job cannot use the Oracle or SQL Server query-based CDC method to capture changes by querying a timestamp column.

For other types of incremental load and combined initial and incremental load jobs, you must use a single Secure Agent.

Step 4. Configure the runtime environment

On the **Runtime Environments** page in Administrator, select your runtime environment.

A runtime environment is the execution platform for running tasks. You must have at least one runtime environment in your organization for users to be able to run tasks. If you create another runtime environment, you must add an unassigned Secure Agent to it.

Under **System Configuration Details**, configure properties for the CMI Streaming Agent, Database Ingestion, or Mass Ingestion (file ingestion) service. For more information, see ["Secure Agent services" on page 15](#).

Step 5. Configure connections

From the **Connections** page in Administrator, configure connection properties for the source and target connectors that you want to use in ingestion tasks. To quickly get to the **New Connection** page, you can click the **Let's get connected!** pane on the Home page. For more information, see *Connectors and Connections > Mass Ingestion connectors* and *Connectors and Connections > Mass Ingestion connection properties*.

Step 6. Create your project

On the **Explore** page, you can create projects and project folders to organize your ingestion tasks. To access the Explore page, click **Explore** in the left navigation bar of the Home page. A project can contain multiple subfolders. See ["Creating projects and project folders" on page 28](#).

Installing Secure Agents

You can install Secure Agents on Windows or Linux.

Secure Agent installation on Windows

On Windows, the Secure Agent runs as a Windows service. When you install the Secure Agent, you also install the Informatica Cloud Secure Agent Manager.

By default, the Secure Agent starts when you start Windows. You can stop and restart the Secure Agent using the Secure Agent Manager or Windows Services. If you install the Secure Agent on a different volume than you use to run the installation program, you must start and stop the Secure Agent from Windows Services.

You can also use the Secure Agent Manager to check the Secure Agent status and configure proxy information. The Secure Agent works with BASIC, DIGEST, and NTLMv2 proxy authentication.

You can launch the Secure Agent Manager from the Start menu or desktop icon. When you close the Secure Agent Manager, it minimizes to the Windows taskbar notification area for quick access.

When you install a Secure Agent, you perform the following tasks:

1. Verify that the machine meets the minimum requirements.
2. Download the Secure Agent installer files.
3. Install and register the Secure Agent.

Secure Agent requirements on Windows

You can install the Secure Agent on any machine that has internet connectivity and can access Informatica Intelligent Cloud Services.

Verify the following requirements before you install the Secure Agent on Windows:

- The Secure Agent machine uses a supported operating system. For the list of supported operating systems for the Secure Agent, see the [Product Availability Matrix \(PAM\) for Informatica Intelligent Cloud Services](#) on the Knowledge Base.
- The Secure Agent machine has the Microsoft Visual C++ 2015 Redistributable.
- The Secure Agent machine has at least 4 CPU cores, 16 GB RAM, and at least 5 GB of free disk space.
- The Secure Agent machine is on a volume with at least 250GB disk space, with at least 5 GB free space or three times the size of the Secure Agent installation, whichever is greater.
- The account you use to install the Secure Agent has access to all remote directories that contain flat source or target files.
- No other Secure Agent is installed on the machine. If another Secure Agent is installed on the machine, uninstall it first.

For more information about Secure Agent requirements, see this article:

<https://knowledge.informatica.com/s/article/526096>

Configure the firewall

If your organization uses a protective firewall, include the Informatica Intelligent Cloud Services domain name or IP address ranges in the list of approved domain names or IP addresses. To ensure that the Secure Agent can perform all necessary tasks through the firewall, enable the port that the Secure Agent uses.

The Secure Agent uses port 443 (HTTPS) to connect to the internet. Configure your firewall to allow traffic to pass over port 443.

The allowlists of domains and IP addresses can vary according to your POD (Point of Deployment). You can identify your POD through the URL that appears when you open any service in Informatica Intelligent Cloud Services. The first few characters of the URL string identify the POD. For example, if the URL starts with `usw3.dm-us.informaticacloud.com`, your POD is USW3.

For the allowlists of Informatica Intelligent Cloud Services domains and IP addresses for different PODs, see [Pod Availability and Networking](#) on the Documentation Portal or click the link at the top of the **Runtime Environments** page in Administrator.

Secure Agent permissions on Windows

A Secure Agent requires certain permissions to transfer data between sources and targets.

When you install a Secure Agent on Windows, the Secure Agent must be part of the local Administrators group.

Configure Windows settings

Before you use the Secure Agent on Windows, configure proxy settings and a Windows Secure Agent service login.

You can configure proxy settings in Secure Agent Manager. Configure a login for the Windows Secure Agent service on Windows.

Note: If you use the Secure Agent for Informatica Cloud Data Wizard, you do not need to configure proxy settings or a Windows service login for the Secure Agent.

Downloading and installing the Secure Agent on Windows

To install the Secure Agent on a Windows machine, you must download and run the Secure Agent installation program and then register the agent.

Secure Agent registration requires an install token. To get the install token, copy the token when you download the agent or use the **Generate Install Token** option in Administrator. The token expires after 24 hours.

Before you download and install the Secure Agent, verify that no other Secure Agent is installed on the machine. If any other Secure Agent exists, you must uninstall it.

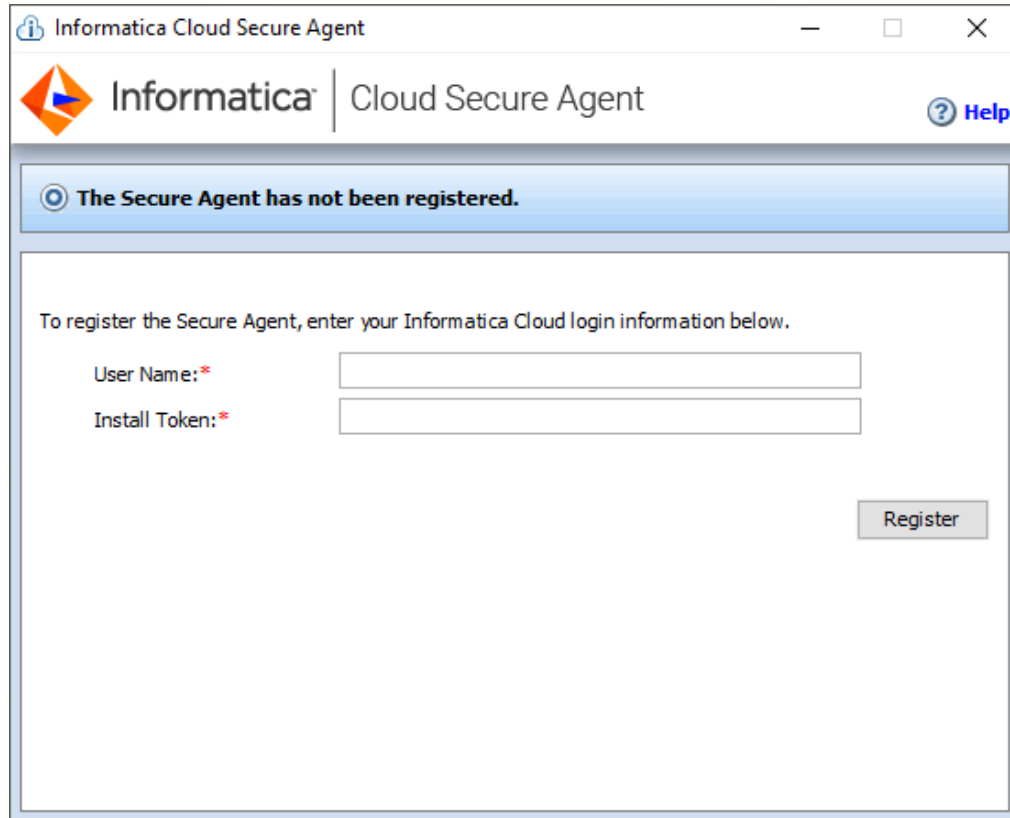
Tip: To verify the checksum of the Secure Agent installation program, use the agent REST API version 2 resource. For more information about the agent resource, see *REST API Reference*.

1. Open Administrator and select **Runtime Environments**.
2. On the **Runtime Environments** page, click **Download Secure Agent**.
3. Select the Windows 64-bit operating system platform, copy the install token, and then click **Download**.

The installation program is downloaded to your machine. The name of the installation program is `agent64_install_ng_ext.<agent core version>.exe`.

4. Run the installation program as an Administrator:
 - a. Specify the Secure Agent installation directory, and click **Next**.
 - b. Click **Install** to install the agent.

The **Cloud Secure Agent** dialog box opens and prompts you to register the agent as shown in the following image:



5. If you did not copy the install token when you downloaded the agent, click **Generate Install Token** on the **Runtime Environments** page in Administrator, and copy the token.
6. In the Secure Agent Manager, enter the following information, and then click **Register**:

| Option | Description |
|---------------|--|
| User Name | User name that you use to access Informatica Intelligent Cloud Services. |
| Install Token | Token that you copied. |

The Secure Agent Manager displays the status of the Secure Agent. It takes a minute for all of the services to start.

7. If your organization uses an outgoing proxy server to connect to the internet, enter the proxy server information.
8. Close the Secure Agent Manager.

The Secure Agent Manager minimizes to the taskbar and continues to run as a service until stopped.

Configure the proxy settings on Windows

If your organization uses an outgoing proxy server to connect to the internet, the Secure Agent connects to Informatica Intelligent Cloud Services through the proxy server. The Secure Agent installer configures the

proxy server settings for the Secure Agent based on settings configured in the browser. You can change the proxy server settings through the Secure Agent Manager.

Contact your network administrator for the correct proxy settings.

1. In the Secure Agent Manager, click **Proxy**.
2. To enter proxy server settings, click **Use a Proxy Server**.
3. Enter the following information:

| Field | Description |
|------------|--|
| Proxy Host | Required. Host name of the outgoing proxy server that the Secure Agent uses. |
| Proxy Port | Required. Port number of the outgoing proxy server. |
| User Name | User name to connect to the outgoing proxy server. |
| Password | Password to connect to the outgoing proxy server. |

4. Click **OK**.

The Secure Agent Manager restarts the Secure Agent to apply the settings.

Configure a login for a Windows Secure Agent Service

On Windows, configure a network login for the Secure Agent service. The Secure Agent can access the network with the privileges and permissions associated with the login.

Configure a login for the Secure Agent machine to allow the Secure Agent to access directories to configure and run tasks. When you configure connections, configure tasks, and run tasks that use flat file or FTP/SFTP connection types, the Secure Agent might require read and write permissions on the related directories.

For example, to browse to a directory to configure a flat file or FTP/SFTP connection, the Secure Agent login might require permission to access the directory. Without a Secure Agent login with the appropriate permissions, Informatica Intelligent Cloud Services cannot display the directory in the **Browse for Directory** dialog box.

1. Go to the **Services** window from the Windows Administrative tools.
2. In the **Services** window, right-click the Informatica Cloud Secure Agent service and choose **Properties**.
3. In the **Properties** dialog box, click the **Log On** tab.
4. To configure a login, select **This Account**.
5. Enter an account and password.

Use an account with the required privileges and permissions for the network security defined for the domain. By default, the account format is <domain name>\<user name>.

6. Click **OK**.
7. In the **Services** window, restart the Secure Agent service for the changes to take effect.

Secure Agent installation on Linux

On Linux, the Secure Agent runs as a process. You can use a shell command line to install, register, start, stop, and uninstall the Secure Agent.

You can also use the shell command line to check the Secure Agent status.

When you install a Secure Agent, you perform the following tasks:

1. Verify that the machine meets the minimum requirements.
2. Download the Secure Agent installer files.
3. Install and register the Secure Agent.

Consider the following guidelines:

- Create a specific user profile to install the Secure Agent with full access to all folders from the Secure Agent installation directory. Don't install the Secure Agent as the root user.
- You can't install more than one Secure Agent on the same machine under the same user account. Multiple agents may exist under different user accounts.
- Don't install the Secure Agent on any node within the Informatica domain.

For more information about Secure Agent requirements, see this KB article:

[IICS Minimum requirements and best practices when installing Informatica Cloud Secure Agent.](#)

Secure Agent requirements on Linux

You can install the Secure Agent on any machine that has internet connectivity and can access Informatica Intelligent Cloud Services. Before you install the Secure Agent on Linux, verify the system requirements.

Verify the following requirements before you install the Secure Agent on Linux:

- Verify that the machine uses a supported operating system. For the list of supported operating systems for the Secure Agent, see the [Product Availability Matrix \(PAM\) for Informatica Intelligent Cloud Services](#) on the Knowledge Base.

- Verify that the machine has at least 11 GB free disk space.

- Verify that the `libidn.x86_64` package is installed.

If the package isn't present, install it using the following command: `sudo yum install libidn.x86_64`

Note: The command to install the package might vary based on your Linux distribution.

- Verify that the `libidn.so.*` libraries are installed.

If the libraries aren't present, install them using the following commands:

- For 64-bit systems: `cd /usr/lib/x86_64-linux-gnu`

- For 32-bit systems: `cd /usr/lib/i386-linux-gnu`

After installing the libraries, create a symbolic link using the following command:

```
sudo ln -s libidn.so.12 libidn.so.11
```

- The account that you use to install the Secure Agent must have access to all remote directories that contain flat source or target files.
- If you use PowerCenter, install the Secure Agent using a different user account than the account you used to install PowerCenter.
Informatica Intelligent Cloud Services and PowerCenter use some common environment variables. If the environment variables are not set correctly for Informatica Intelligent Cloud Services, your jobs might fail at run time.

For more information about Secure Agent requirements, see this article:

<https://knowledge.informatica.com/s/article/526096>

Configure the firewall

If your organization uses a protective firewall, include the Informatica Intelligent Cloud Services domain name or IP address ranges in the list of approved domain names or IP addresses. To ensure that the Secure Agent can perform all necessary tasks through the firewall, enable the port that the Secure Agent uses.

The Secure Agent uses port 443 (HTTPS) to connect to the internet. Configure your firewall to allow traffic to pass over port 443.

The allowlists of domains and IP addresses can vary according to your POD (Point of Deployment). You can identify your POD through the URL that appears when you open any service in Informatica Intelligent Cloud Services. The first few characters of the URL string identify the POD. For example, if the URL starts with `usw3.dm-us.informaticacloud.com`, your POD is USW3.

For the allowlists of Informatica Intelligent Cloud Services domains and IP addresses for different PODs, see [Pod Availability and Networking](#) on the Documentation Portal or click the link at the top of the **Runtime Environments** page in Administrator.

Secure Agent permissions on Linux

A Secure Agent requires certain permissions to transfer data between sources and targets.

When you install a Secure Agent on Linux, the Secure Agent must have read/write/execute permissions for the installation directory.

Downloading and installing the Secure Agent on Linux

To install the Secure Agent on a Linux machine, you must download and run the Secure Agent installation program and then register the agent.

Secure Agent registration requires an install token. To get the install token, copy the token when you download the agent or use the **Generate Install Token** option in Administrator. The token expires after 24 hours.

When you register the agent, it is added to its own Secure Agent group by default. You can add the agent to a different Secure Agent group.

Before you download and install the Secure Agent, verify that no other Secure Agent is installed on the machine using the same Linux user account. If there is, you must uninstall it.

Tip: To verify the checksum of the Secure Agent installation program, use the agent REST API version 2 resource. For more information about the agent resource, see *REST API Reference*.

1. Open Administrator and select **Runtime Environments**.
2. On the **Runtime Environments** page, click **Download Secure Agent**.
3. Select the Linux 64-bit operating system platform, copy the install token, and then click **Download**.
The installation program is downloaded to your machine. The name of the installation program is `agent64_install_ng_ext.<agent core version>.bin`.
4. Save the installation program to a directory on the machine where you want to run the Secure Agent.
Note: If the file path contains spaces, the installation might fail.
5. From a shell command line, navigate to the directory where you downloaded the installation program and enter the following command:

```
./agent64_install_ng_ext.bin -i console
```
6. When the installer completes, navigate to the following directory:
`<Secure Agent installation directory>/apps/agentcore`

7. To start the Secure Agent, enter the following command:

```
./infaagent startup
```

The Secure Agent Manager starts. You must register the agent using the user name that you use to access Informatica Intelligent Cloud Services. You must also supply the install token.

8. If you did not copy the install token when you downloaded the agent, click **Generate Install Token** on the **Runtime Environments** page in Administrator, and copy the token.
9. To register the agent, in the `<Secure Agent installation directory>/apps/agentcore` directory, enter one of the following commands using your Informatica Intelligent Cloud Services user name and the token that you copied:

- To add the agent to its own Secure Agent group, use the following command:

```
./consoleAgentManager.sh configureToken <user name> <install token>
```

- To add the agent to an existing Secure Agent group, use the following command:

```
./consoleAgentManager.sh configureTokenWithRuntime <user name> <install token>  
<Secure Agent group name>
```

Note: If the command includes a Secure Agent group name that doesn't exist, the Secure Agent is not assigned to a group. Be sure to use a valid Secure Agent group name.

The following table lists the command options:

| Option | Description |
|-------------------------|--|
| User Name | Required. Informatica Intelligent Cloud Services user name of the user installing the Secure Agent. |
| Install Token | Required. The install token that you copied. |
| Secure Agent group name | Optional. Include when you want to add the agent to an existing Secure Agent group instead. If this option isn't included in the command, the agent will be in its own Secure Agent group. |

You can check the registration status of a Secure Agent using the following command:

```
./consoleAgentManager.sh isConfigured
```

Configure the proxy settings on Linux

If your organization uses an outgoing proxy server to connect to the internet, the Secure Agent connects to Informatica Intelligent Cloud Services through the proxy server.

The Secure Agent installer configures the proxy server settings for the Secure Agent based on settings configured in the browser. You can update the proxy server settings defined for the Secure Agent from the command line. The Secure Agent works with BASIC, DIGEST, and NTLMv2 proxy authentication.

To configure the proxy server settings for the Secure Agent on a Linux machine, use a shell command that updates the `proxy.ini` file. Contact the network administrator to determine the proxy settings.

1. Navigate to the following directory:

```
<Secure Agent installation directory>/apps/agentcore
```

2. To update the `proxy.ini` file, enter the following command:

```
./consoleAgentManager.sh configureProxy <proxy host> <proxy port> <proxy user name>  
<proxy password>
```

3. Restart the Secure Agent.

Secure Agent services

Secure Agent services are pluggable microservices that the Secure Agent uses for data processing. Each Secure Agent service runs independently of the other services that run on the agent.

The independent services architecture provides the following benefits:

- The Secure Agent does not restart when you add a connector or package.
- Services are not impacted when another service restarts.
- Downtime during upgrades is minimized. The upgrade process installs a new version of the Secure Agent, updates connector packages, and applies configuration changes for the services. To minimize downtime, the old agent remains available and continues to run ingestion jobs during the upgrade. The new version of the Secure Agent runs jobs that start after the upgrade process completes.

The services that run on a Secure Agent vary based on your licenses and the Informatica Intelligent Cloud Services that your organization uses. For Mass Ingestion, the following Secure Agent services are available:

- Database Ingestion - for running application ingestion jobs and database ingestion jobs
- CMI Streaming Agent - for running streaming ingestion jobs
- Mass Ingestion - for running file ingestion jobs

Each service has a unique set of configuration properties. You might need to configure a service or change the service properties to optimize performance or if you are instructed to do so by Informatica Global Customer Support.

Database Ingestion service

Mass Ingestion Applications and Mass Ingestion Databases use the Database Ingestion agent service to run ingestion jobs.

After you download the Secure Agent to your runtime environment and enable the Database Ingestion service, the Database Ingestion packages are pushed to the on-premises system where the Secure Agent runs. You can then optionally configure properties for the Database Ingestion service that runs on the Secure Agent.

Database Ingestion service properties

To change or optimize the behavior of the Database Ingestion service that your Secure Agent group uses, configure Database Ingestion properties for your runtime environment.

To configure the properties, open your runtime environment and click **Edit**. Under **System Configuration Details**, select the **Database Ingestion** service and the **DBMI_AGENT_CONFIG** type.

The following table describes the Database Ingestion agent service properties:

| Property | Description |
|---------------------------|---|
| maxTaskUnits | <p>The maximum number of application ingestion task units and database ingestion task units that can run concurrently on an on-premises machine where the Secure Agent is running.</p> <p>Task units are not related to the capacity and availability of your hardware or software. You can configure maxTaskUnits to precisely control CPU usage. Valid values are 1 to 2000000000 (2 billion).</p> <p>To calculate a reasonable number of task units for your Secure Agent machine, Informatica recommends that you divide the number of cores by 3 or 4. For example, if you have an 8-core machine, you could set this property to 2. Then monitor CPU usage and adjust the property value as needed to tune performance.</p> <p>During initial load processing, this property determines the number of tables that can be unloaded simultaneously. Remaining tables are queued and start unload processing when resources become available.</p> <p>Note: A single job can process many tables. The total number of tables that can be processed is limited only by available memory. On the average, 25 MB of RAM is required per table for an initial load task based on a 1 KB row size.</p> <p>During incremental load processing, this property determines the number of application ingestion and database ingestion jobs that can run simultaneously.</p> <p>Setting this property to a value greater than the number of cores on the Secure Agent machine can increase parallelism for task execution but also cause performance bottlenecks at task execution time.</p> |
| serviceLogRetentionPeriod | <p>The number of days to retain each internal Database Ingestion service log file after the last update is written to the file. When this retention period elapses, the log file is deleted. The default value is 7 days.</p> <p>Service logs are retained on the Secure Agent host where they are created: <infaagent>/apps/Database_Ingestion/logs.</p> <p>Note: This property is applicable to both Mass Ingestion Applications and Mass Ingestion Databases.</p> |
| taskLogRetentionPeriod | <p>The number of days to retain each job log file after the last update is written to the file. When this retention period elapses, the log file is deleted. The default value is 7 days.</p> |

| Property | Description |
|------------------------------|---|
| ociPath | <p>For Oracle sources and targets, the path to the Oracle Call Interface (OCI) directory that contains the oci.dll or libclntsh.so file. By default, Oracle uses \$ORACLE_HOME/lib on Linux or %ORACLE_HOME%\bin on Windows. The OCI library is used by database ingestion CDC tasks to connect to Oracle.</p> <p>For a DBMI agent that is running, this value is appended to the PATH environment variable value on Windows or to the LD_LIBRARY_PATH environment variable value on Linux. This property is not required if you already included the OCI path in the PATH or LD_LIBRARY_PATH environment variable.</p> <p>Note: This property is applicable only to Mass Ingestion Databases.</p> |
| serviceUrl | <p>The URL that the Database Ingestion service uses to connect to the Informatica Intelligent Cloud Services cloud.</p> <p>Note: This property is applicable to both Mass Ingestion Applications and Mass Ingestion Databases.</p> |
| logLevel | <p>The level of detail to include in the logs that the Database Ingestion service produces. Options are:</p> <ul style="list-style-type: none"> - TRACE - DEBUG - INFO - WARN - ERROR <p>The default value is TRACE.</p> <p>Note: This property is applicable to both Mass Ingestion Applications and Mass Ingestion Databases.</p> |
| taskExecutionHeapSize | <p>The maximum heap size, in gigabytes, for the Task Execution service. This value, in conjunction with maxTaskUnits property, affects the number of concurrent application ingestion and database ingestion tasks that can run on a Secure Agent. Try increasing the heap size to run more tasks concurrently. Enter this value followed by "g" for gigabytes, for example, '9g'. The default value is '8g'.</p> <p>Note: This property is applicable to both Mass Ingestion Applications and Mass Ingestion Databases.</p> |
| useProxy | <p>Set this property to true to enable the DBMI Agent to go through a proxy when connecting to or writing data to targets. The DBMI Agent then uses the proxy settings from the Secure Agent proxy configuration. By default, proxy settings are not used.</p> <p>Note: This property is applicable to both Mass Ingestion Applications and Mass Ingestion Databases.</p> |
| intermediateStorageDirectory | <p>For incremental load and combined initial and incremental load jobs, the local root directory under which intermediate files that contain data are stored when the Enable Persistent Storage option is selected in the associated task definitions.</p> <p>Note: This property is applicable only to Mass Ingestion Databases.</p> |

| Property | Description |
|--|---|
| storageBackupDirectory | For incremental load and combined initial and incremental load jobs, the path to the directory that stores backup files when the Enable Persistent Storage option is selected in the associated task definitions. Note: This property is applicable only to Mass Ingestion Databases. |
| storageProperties | For incremental load and combined initial and incremental load jobs, a comma-separated list of key=value pairs that is used when the Enable Persistent Storage option is selected in the associated task definitions. Specify this property only at the direction of Informatica Global Customer Support. Note: This property is applicable only to Mass Ingestion Databases. |
| task_container.jvm.allowExceptionForInvalidEncodedData | If you receive transliteration errors that report invalid encoding to UTF-8, and you do not want to repair or correct the source data, set this property to false so that database ingestion jobs do not fail when trying to unload the data from the source. With this setting, the Database Ingestion service passes an equivalent Java property to the DataDirect JDBC driver to prevent the exception from occurring. After you set this property, you must restart the Database Ingestion service. Note: This property is applicable only to Mass Ingestion Databases. |

Database Ingestion Agent environment variables

To change or optimize the behavior of the Database Ingestion Agent, define the following environment variables:

| Environment Variable | Description |
|------------------------------------|--|
| DBMI_REPLACE_UNSUPPORTED_CHARS | For Microsoft Azure Synapse Analytics targets, controls whether an application ingestion job or database ingestion job replaces characters in character data that the target cannot process correctly. To enable character replacement, set this environment variable to true. DBMI_REPLACE_UNSUPPORTED_CHARS=true Mass Ingestion Applications or Mass Ingestion Databases then uses the character that is specified in the DBMI_UNSUPPORTED_CHARS_REPLACEMENT environment variable to replace unsupported characters. |
| DBMI_UNSUPPORTED_CHARS_REPLACEMENT | If the DBMI_REPLACE_UNSUPPORTED_CHARS environment variable is set to true, specifies the character that replaces the characters in source data that a Microsoft Azure Synapse Analytics target cannot process correctly. Default value: ? (question mark) Note: Define this environment variable only for Mass Ingestion Databases. |

| Environment Variable | Description |
|--|---|
| DBMI_WRITER_CONN_POOL_SIZE | Indicates the number of connections that an application ingestion job or database ingestion job uses to propagate the change data to the target. The default value is 8. Valid values are 4 through 8. |
| DBMI_WRITER_RETRIES_MAX_COUNT | If a network issue occurs while a database ingestion job is loading source data to an Amazon S3 or Microsoft Azure Data Lake Storage Gen2 target, indicates the maximum number of times that the database ingestion job retries a request to continue the initial load or incremental load. If all of the retries fail, the job fails. The default value is 5. |
| DBMI_WRITER_RETRIES_INTERVAL_IN_MILLIS | Specifies the time interval, in milliseconds, that a database ingestion job waits before retrying the request to continue the initial load or incremental load to an Amazon S3 or Microsoft Azure Data Lake Storage Gen2 target if a network issue occurs. The default value is 1000. |

Note: After you define or change an environment variable, restart the Database Ingestion Agent for the changes to take effect.

Mass Ingestion (Files)

To change or optimize the behavior of Mass Ingestion Files that your Secure Agent group uses, configure Mass Ingestion properties for your runtime environment in Administrator.

You can configure the following properties:

| Type | Name | Description |
|------------------------|----------------------------|---|
| AGENT_RUNTIME_SETTINGS | file-listener-snapshot-dir | A directory where the snapshots of a new file listener components are added. You can add the following directory paths: <ul style="list-style-type: none"> - A path relative to the <code>MassIngestionRuntime</code> directory. For example, <code>../data/monitor</code>. - The absolute path. For example, <code><Secure agent installation directory>/apps/MassIngestionRuntime/data/monitor</code> where <i>Secure agent installation directory</i> is the name of the directory where the secure agent is installed. Note: Use the snapshot directory shared with all agents when multiple Secure Agents are present in a group. |
| AGENT_RUNTIME_SETTINGS | mi-task-workspace-dir | A directory in the agent that file ingestion tasks use as an intermediate staging area when transferring files to a target. The directory is a custom location in the agent. The path can be a shared location, mounted location, or a location apart from the default location in the agent. |

| Type | Name | Description |
|------------------------|--------------------------------|---|
| AGENT_RUNTIME_SETTINGS | mi-task-project-dir | A directory where the file ingestion task stores the project files. The directory is a custom location in the agent. The path can be a shared location, mounted location, or a location apart from the default location in the agent. |
| AGENT_RUNTIME_SETTINGS | mi-task-logs-dir | A directory where the file ingestion task stores the task logs files. The directory is a custom location in the agent. The path can be a shared location, mounted location, or a location apart from the default location in the agent. |
| AGENT_RUNTIME_SETTINGS | mi-task-quarantine-dir | <p>A directory where the file ingestion task stores the infected files detected when you run a virus scan. The directory is a custom location in the agent. The path can be a shared location, mounted location, or a location apart from the default location in the agent.</p> <p>For example, userdata\quarantine</p> <p>Note: To automatically clean up the quarantine directory, set the agent property for the quarantine location to a system temporary files location such as /tmp/informatica/fmi/quarantine.</p> |
| AGENT_RUNTIME_SETTINGS | agent-dedup-repository | <p>The information about skipped duplicate files is saved in Informatica Intelligent Cloud Services (IICS). To save the skipped duplicate files information in the Secure Agent, set the property to <code>true</code>.</p> <p>Default is <code>false</code>.</p> <p>For more information about saving the skipped duplicate information, see the <i>Mass Ingestion Files</i> guide.</p> |
| AGENT_RUNTIME_SETTINGS | mi-dedup-snapshot-dir | <p>Enter the path to store the information about skipped duplicate files in the Secure Agent.</p> <p>Applies only when the agent-dedup-repository property is set to <code>true</code>.</p> |
| AGENT_RUNTIME_SETTINGS | file-listener-max-pool-size | <p>The maximum number of threads to execute the file listener.</p> <p>Default is 20.</p> |
| AGENT_RUNTIME_SETTINGS | file-listener-core-pool-size | <p>The total number of threads.</p> <p>Default is 20.</p> |
| AGENT_RUNTIME_SETTINGS | fmi-task-max-pool-size | <p>The maximum number of threads to execute the file ingestion task.</p> <p>Default is 50.</p> |
| AGENT_RUNTIME_SETTINGS | fmi-task-core-pool-size | <p>The initial or minimum number of threads.</p> <p>Default is 20.</p> |
| AGENT_RUNTIME_SETTINGS | ftp-receive-socket-buffer-size | <p>The buffer size for FTP inbound packets.</p> <p>Default is 16 bytes.</p> |

| Type | Name | Description |
|------------------------|-----------------------------|--|
| AGENT_RUNTIME_SETTINGS | ftp-send-socket-buffer-size | The buffer size for FTP outbound packets. Default is 16 bytes. |
| AGENT_RUNTIME_SETTINGS | http-client-timeout | The timeout duration in seconds for Agent requests to Informatica Intelligent Cloud Services. Default is 30 seconds. |
| PGP_SETTINGS | public-keyring-path | The directory to store the public key ring. You can add the following directory paths: <ul style="list-style-type: none"> - A path relative to the directory where mass ingestion is installed. For example, <code>../data/pubring.pkr</code> where <i>pubring.pkr</i> is the name of the file where you store the public key ring. - The absolute path. For example, <code><Secure agent installation directory>/apps/MassIngestionRuntime/data/pubring.pkr</code> where <i>pubring.pkr</i> is the name of the file where you store the public key ring and <i>Secure agent installation directory</i> is the name of the directory where the agent is installed. |
| PGP_SETTINGS | secret-keyring-path | The directory to store the secret key ring. You can add the following directory paths: <ul style="list-style-type: none"> - A path relative to the directory where mass ingestion is installed. For example, <code>../data/secring.pkr</code> where <i>secring.pkr</i> is the name of the file where you store the secret key ring. - The absolute path. For example, <code><Secure agent installation directory>/apps/MassIngestionRuntime/data/secring.pkr</code> where <i>secring.pkr</i> is the name of the file where you store the secret key ring and <i>Secure Agent installation directory</i> is the name of the directory where the agent is installed. |
| JVM_SETTINGS | app-heap-size | The minimum and maximum heap sizes of the Mass Ingestion Files application. Default is -Xms256m -Xmx2048m. |
| JVM_SETTINGS | lcm-heap-size | The minimum and maximum heap sizes of life-cycle management scripts. Default is -Xms32m -Xmx128m. |

You can configure the following properties in the **Custom Configuration Details** area when you edit a Secure Agent:

| Type | Name | Description |
|------------------------|---------------------------------|---|
| AGENT_RUNTIME_SETTINGS | ComplexFileDisableWriteChecksum | Set the value to True to ignore the <code>crc</code> file. The job runs successfully with Hadoop Files V2 as source and Snowflake Cloud Data Warehouse V2 as the target. |

Guidelines to specify the folder path

A folder path can be a shared location, mounted location, or a location apart from the default location in the Secure Agent.

The following table lists the use of slashes around the source folder path:

| Source | Folder Path |
|-------------------------|---|
| Windows | <folder path> For example, C:\temp |
| Linux | /<folder path>/ For example, /root/path |
| Windows shared location | <folder path> with additional slashes (\) For example, the path \\INV12B2B01\Shared\path, is specified as \\\INV12B2B01\Shared\\path |

CMI Streaming Agent

Use the CMI Streaming Agent to define and deploy streaming ingestion tasks. You configure streaming ingestion tasks in the Mass Ingestion service.

A CMI Streaming Agent runs on an on-premise system and works in conjunction with the Mass Ingestion Streaming service. In an on-premise system, the CMI Streaming Agent runs the jobs deployed by Mass Ingestion Streaming. The agent provides status and statistics updates of each job.

On Linux, the CMI Streaming Agent does not start if the agent installation directory name contains a space. The agent returns a connection timeout status. After a few restart attempts, the agent goes into the error state.

Note: Prior to Spring 2020 April release of Informatica Intelligent Cloud Services Mass Ingestion service, CMI Streaming Agent was called Streaming Ingestion Agent.

CMI Streaming Agent properties

To change or optimize the behavior of the CMI Streaming Agent, configure agent properties for your run-time environment. Configure CMI Streaming Agent properties in the **System Configuration Details** area when you edit a Secure Agent.

You can configure Engine, Agent, and Script properties of a CMI Streaming Agent.

The following image shows some of the CMI Streaming Agent properties:

▼ **System Configuration Details**

Service:

Type:

| Type | Name | Value |
|---------|----------------------|---------------------|
| Engine | MaxLogFileSize | '5MB' |
| Engine | LogLevel | 'DEBUG' |
| Agent | DataflowPullInterval | 60 |
| Agent | JVM | '-Xms256M -Xmx256M' |
| Agent | LogLevel | 'DEBUG' |
| Agent | MaxLogFileSize | '10MB' |
| Agent | MaxNumberOfBackups | 5 |
| Scripts | LogLevel | 'DEBUG' |
| Scripts | MaxFileSize | '5MB' |
| Scripts | MaxBackupIndex | 5 |

You can configure the following CMI Streaming Agent properties:

| Type | Property Name | Description |
|--------|----------------------|--|
| Engine | MaxLogFileSize | The maximum size of the log file that the engine can create. Default is 5 MB. |
| Engine | LogLevel | The log level for the engine. |
| Agent | DataflowPullInterval | The time interval after which the agent checks for updates in the task. Default is 60 seconds. |
| Agent | JVM | List of JVM properties for the agent. For example: [-Xms256M -Xmx256M] |
| Agent | LogLevel | The log level for the agent. |
| Agent | MaxLogFileSize | Maximum size of the log files that an agent can create. Default is 10 MB. |

| Type | Property Name | Description |
|---------|--------------------|--|
| Agent | MaxNumberOfBackups | Maximum number of backup log files for the agent. Default is 5. |
| Scripts | LogLevel | The log level of the scripts. |
| Scripts | MaxFileSize | The maximum file size after which the log rolls over and creates a new file. Default is 10 MB. |
| Scripts | MaxBackupIndex | Maximum number of backup files maintained after rolling over. Default is 5. |

Streaming Agent offline mode

You can run and monitor a streaming ingestion job when the CMI Streaming Agent is offline or not connected to the internet.

The Streaming Agent supports both online and offline modes of communication. In the offline mode, the streaming ingestion job continues to run even if the Streaming Agent does not communicate with the Informatica Intelligent Cloud Services for an extended period of time. The Streaming Agent continues to monitor the health and statistics of the ingestion tasks locally. When the Streaming Agent turns online and connects to the cloud services, it updates any configuration changes for the agent and tasks, as well as updates the health and statistics to the services.

To switch between the offline and online modes, you can use the command line utility provided by the Mass Ingestion Streaming service. Run the following command to start the command line utility:

```
<Informatica Secure Agent>/apps/Streaming_Ingestion_Agent/<version>/runcli.bat
```

The command line utility uses the command prompt `infa/stream>` and provides three groups of commands.

You can change the communication modes only through the command line utility. The Streaming Agent preserves the communication mode when the agent restarts.

The following table lists the commands of this command line utility:

| Command | Description | Example |
|----------------|---|--|
| app-config | Shows the current configuration of the Streaming Agent application. | <pre> infa/stream :>app-config deploy.pull.interval : 60 health.poll.interval : 30 minifi.ingester.file.location : ./conf siagent.communication.mode : Online siagent.monitoring.persist.dir : ../data siagent.statistics.post.batchsize : 720 siagent.statistics.post.concurrency : 60 siagent.status.persist.dir : ../data statistics.poll.interval : 30 </pre> |
| app-setconfig | <p>Use this command to configure the following properties:</p> <ul style="list-style-type: none"> - siagent.communication.mode. Use to configure offline or online communication mode. - siagent.statistics.post.batchsize. Use to define the number of snapshots in a batch. - siagent.statistics.post.concurrency. Use to define the number of worker threads to post statistics. <p>The --key and --value tokens are optional.</p> | <pre> infa/stream :>app-setconfig --key siagent.statistics.post.batchsize -- value 20 or infa/stream :>app-setconfig siagent.statistics.post.batchsize 20 </pre> |
| app-status | <p>Shows the current status of the Streaming Agent.</p> <p>The health status code and health error message indicates the status of the agent (service) shown on the Administrator.</p> <p>uptime indicates the number of seconds since the Streaming Agent application is available.</p> | <pre> infa/stream :>app-status health error message : No errors health status code : RUNNING(0) uptime : 67828 </pre> |
| app-statistics | <p>Shows metadata and status of overall statistics collection in the Streaming Agent.</p> <ul style="list-style-type: none"> - collection interval. Interval of statistics collection, in seconds. - post interval. Frequency of statistics posted or attempted post. - max batch size. Maximum number of snapshots posted in a single http post. - last batch size. Number of snapshots in the last http post. - last time collected. Timestamp when any statistics were last collected. - last time posted. Timestamp when any statistics were last posted. | <pre> infa/stream :>app-statistics collection interval : 30 last batch size : 2 last time collected : 7/3/20 10:19:03 AM IST last time posted : 7/3/20 10:18:53 AM IST max batch size : 20 pending snapshots : 3 post interval : 30 </pre> |

| Command | Description | Example |
|-------------|--|---|
| clear | Clears the screen. | - |
| exit, quit | Quits the application. | - |
| help | Shows a summary of all the commands available. | <pre> infa/stream :>help AVAILABLE COMMANDS Agent Application Commands app-config: Show agent application configuration app-setmode: Set the communication mode [Online/Offline] app-status: Show agent application status Built-In Commands clear: Clear the shell screen. exit, quit: Exit the shell. help: Display help about available commands. Streaming Ingestion Task Commands task-health: Show streaming ingestion task health task-list: Show streaming ingestion task list task-metadata: Show streaming ingestion task metadata </pre> |
| task-list | Shows the list of streaming ingestion jobs currently deployed on the Streaming Agent. | <pre> infa/stream :>task-list 6e61e76f-2618-4292-ab3d-dd181f47ee91 ad5053c7-5ac2-493f-8cbb-a24900b61f71 </pre> |
| task-health | Shows the health status of all streaming ingestion jobs in the Streaming Agent. Use the options --name or --id to specify a job. If none are specified, all jobs are listed. | <pre> infa/stream :>task-health --name aby_df4 processors : [{"id":"14a7a095-7fac-4fc3-ac5c-705369132516","status":"ERROR"}, {"id":"821e6730-3aed-4d3f-b875-45f424b6b963","status":"RUNNING"}] status : ERROR timestamp : Sat May 09 06:04:08 IST 2020 infa/stream :>task-health 6e61e76f-2618-4292-ab3d-dd181f47ee91 processors : [{"id":"2a0b8715-aa7a-46c5-9d6a-6a356f5a0102","status":"ERROR"}, {"id":"1172f3a8-35dd-41ef-be4b-bc0cf37e3794","status":"RUNNING"}] status : ERROR timestamp : Sat May 09 06:04:08 IST 2020 ad5053c7-5ac2-493f-8cbb-a24900b61f71 processors : [{"id":"14a7a095-7fac-4fc3-ac5c-705369132516","status":"ERROR"}, {"id":"821e6730-3aed-4d3f-b875-45f424b6b963","status":"RUNNING"}] status : ERROR timestamp : Sat May 09 06:04:08 IST 2020 </pre> |

| Command | Description | Example |
|-----------------|---|--|
| task-metadata | Shows the metadata of all streaming ingestion jobs in the Streaming Agent. Use the options <code>--name</code> or <code>--id</code> to specify a job. If none are specified, all jobs are listed. | <pre> infa/stream :>task-metadata --name aby_df4 id : ad5053c7-5ac2-493f-8cbb- a24900b61f71 name : aby_df4 runId : 9071 version : 1 infa/stream :>task-metadata 6e61e76f-2618-4292-ab3d-dd181f47ee91 id : 6e61e76f-2618-4292-ab3d- dd181f47ee91 name : aby_df2 runId : 9069 version : 8 ad5053c7-5ac2-493f-8cbb-a24900b61f71 id : ad5053c7-5ac2-493f-8cbb- a24900b61f71 name : aby_df4 runId : 9071 version : 1 </pre> |
| task-statistics | Shows the statistics details of all streaming ingestion jobs in the Streaming Agent. Use the options <code>--name</code> or <code>--id</code> to specify a job. If none are specified, all jobs are listed. | <pre> infa/stream :>task-statistics --name aby_df1 dataflow name : aby_df1 last time collected : 1590861803731 last time posted : 1590861806091 infa/stream :>task-statistics 7b7d3c09-df43-482f-b6c8-8dd80187e6d7 dataflow name : aby_df2 last time collected : 1590861770731 last time posted : 1590861741132 decfad0a-20df-4226-84f9-1ff1ab6ef96a dataflow name : aby_df1 last time collected : 1590861768730 last time posted : 1590861771054 </pre> |

Online mode to Offline mode

By default, the Streaming Agent is in online mode.

To change the Streaming Agent to offline mode:

1. Launch the command line utility using the following command:
In Windows:

```
<Informatica_Secure_Agent>/apps/Streaming_Ingestion_Agent/<version>/runcli.bat
```

In UNIX:

```
<Informatica_Secure_Agent>/apps/Streaming_Ingestion_Agent/<version>/runcli.sh
```

2. Set the Streaming Agent to offline mode:

```
app-setconfig --key siagent.communication.mode --value Offline
```

or

```
app-setconfig siagent.communication.mode Offline
```

The Streaming Agent stops sending health updates and statistics of any streaming ingestion job.

Offline mode to Online mode

To change the Streaming Agent to online mode:

1. Launch the command line utility using the following command:

In Windows:

```
<Informatica_Secure_Agent>/apps/Streaming_Ingestion_Agent/<version>/runcli.bat
```

In UNIX:

```
<Informatica_Secure_Agent>/apps/Streaming_Ingestion_Agent/<version>/runcli.sh
```

2. Set the Streaming Agent to online mode:

```
app-setconfig --key siagent.communication.mode --value Online
```

or

```
app-setconfig siagent.communication.mode Online
```

The Streaming Agent starts sending health updates of all the streaming ingestion jobs and the updates appear in the **Monitoring** page. It starts sending statistics of all the streaming ingestion jobs including the statistics backlog collected while it was offline to the service. It also synchronizes the updates to the streaming ingestion jobs or adds the new streaming ingestion job deployed while it was offline to the service.

Creating projects and project folders

Projects can contain multiple folders that you can use to organize the assets used in the project. Create projects using the **Explore** page.

To create a project, go to the **Explore** page and select to explore by projects and folders, and then click **New Project**.



To create a project folder, go to the **Explore** page and open the project, and then click **New Folder**.



You can create one level of folders in a project. You cannot create folders within folders.

For more information about working with projects, see *Asset Management*.

Editing your user profile

Your user profile contains the details of your Informatica Intelligent Cloud Services user account.

You can update the following information in your profile:

- First and last name
- Job title
- Email address
- Phone number
- Time zone (used in the job execution time stamps on the **All Jobs**, **Running Jobs**, **My Jobs**, **Import/Export Logs**, and **My Import/Export Logs** pages)
- Password
- Security question and answer

Note: If you use SAML to sign on to Informatica Intelligent Cloud Services and your organization administrator has enabled SAML group and role mapping on the **SAML Setup** page in Administrator, you can only update the time zone. The other attributes are updated directly from your enterprise directory each time you log into Informatica Intelligent Cloud Services.

1. Click the **User** icon in the top right corner of the Informatica Intelligent Cloud Services window and then select **Profile**.
2. On the **Profile** page, add or edit personal information such as your name, job title, phone number, and time zone.
3. To update your email address, click **Update Email**.
Informatica Intelligent Cloud Services sends a verification email to your new email address. The email contains a link that is valid for 24 hours. When you click the link in the email, the new address is verified, and it appears in your profile. If the link expires, you can resend the verification email.
4. Optionally, change your password or security question.
5. Click **Save**.

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