How-To Library

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Secure Agent Machine Requirements for Masking Tasks on Informatica Intelligent Cloud Services

Abstract

You can create a masking task to perform data subset and data masking operations in Data Integration. To run a masking task in Data Integration you must install a Secure Agent. This document outlines the minimum requirements for the Secure Agent machine to run masking tasks in Data Integration.

Supported Versions

- Informatica Intelligent Cloud Services Summer 2018
- Informatica Intelligent Cloud Services Spring 2018

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Overview

The Informatica Cloud® Secure Agent is a lightweight program that runs all tasks and enables secure communication across the firewall between your organization and Informatica Intelligent Cloud Services (IICS).

When the Secure Agent runs a task, it connects to the Informatica Cloud hosting facility to access task information. Then the Secure Agent connects directly and securely to sources and targets, transfers data between sources and targets, and performs any additional task requirements.

To use a Cloud masking task to transfer data between a source and a target, you must install the Informatica Cloud Secure Agent on the machine that you use to perform the data movement.

For information about how to run masking tasks in Data Integration, see the online help:
https://network.informatica.com/onlinehelp/IICS/prod/CDI/en/index.htm

Rules and Guidelines

Consider the following rules and guidelines when you run masking tasks in Data Integration:

- The Secure Agent must have access to Salesforce servers.
- Tasks that include data subset properties require a staging connection. You can create a staging connection on an H2 database in Administrator in IICS or create it manually.
- To improve batch processing, configure the *EnableSalesForceStagingResponse* flag in the Custom Configuration Details for the Secure Agent and set it to TRUE.

  Bulk operations that contain large amounts of data to read in a single query might encounter a connection reset at regular intervals. The task might fail because of the connection reset. Improved batch processing reduces the chances of a connection reset during a task run.

Minimum Secure Agent Machine Requirements

The Secure Agent machine requires a certain minimum hardware and software configuration.

For information about system requirements, see the Product Availability Matrix (PAM) for Informatica Intelligent Cloud Services. PAMs indicate the versions of operating systems, databases, and other types of data sources and targets that a product release supports. You can access the latest PAM for Informatica Intelligent Cloud Services at https://knowledge.informatica.com/s/article/DOC-17579?language=en_US.

Staging Database Configuration

Masking tasks that include data subset properties require a staging connection. You can create a staging connection on an H2 database from the Administrator service in IICS or create the connection manually.

Consider the following information before you configure a staging connection:

- Configure the cache and heap size in the H2 startup script according to the source size and Secure Agent hardware configuration. An increase in the cache size improves staging, target load, and subset computation performance.
- The heap size must be at least twice the size of the cache memory.
- The default cache size in the script is 2048 MB and the heap size is 4096 MB.
- You can also configure the heap size for the staging connection from the **Schedule** page under **Data Subset** options.

The following example contains the section of code from the startup script file with the properties that you can configure:

```
@echo off
:: Script location
set H2_JAR_DIR=%~dp0
:: H2 Cache size in KBs
set H2_CACHE_SIZE=2097152
:: H2 Jar Name
set H2_JAR_PATH=%H2_JAR_DIR%h2-1.3.176.jar
:: H2 DB Name
set H2_DB=dmask
:: JVM path
set JVM_PATH=%H2_JAR_DIR%..\..\..\..\..\..\..\jre\bin
:: JVM Options. Initial and maximum heap size
set JVM_OPTS=-Xms128m -Xmx4g
```

You can change the H2_CACHE_SIZE value and the JVM_OPTS value to increase or decrease memory requirement for the H2 database. Higher memory allocation ensures better staging and subset computation performance. The heap size must be at least twice the size of the cache memory.

Note: Do not make other changes to the script file. Changes to other properties can damage the file.

The H2 startup script is available in the following location:

```
<Agent installation directory>\apps\Data_Integration_Server\$$Version\ICS\main\tomcat\cmask
\h2_start.bat
```

Improving Batch Processing

1. Log in to IICS.
2. Open the **Administrator** service.
3. Click **Runtime Environments** and click the Secure Agent that runs the task to open the agent **Details** page.
4. Click **Edit**.
5. Expand the **Custom Configuration Details** tab.
6. Select the Data Integration Server service.

7. Select the DTM type.
8. Enter the name *EnableSalesForceStagingResponse*.
9. Enter the value as True and click **Save**.
10. Restart the Secure Agent.

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