IICS Metadata Extraction

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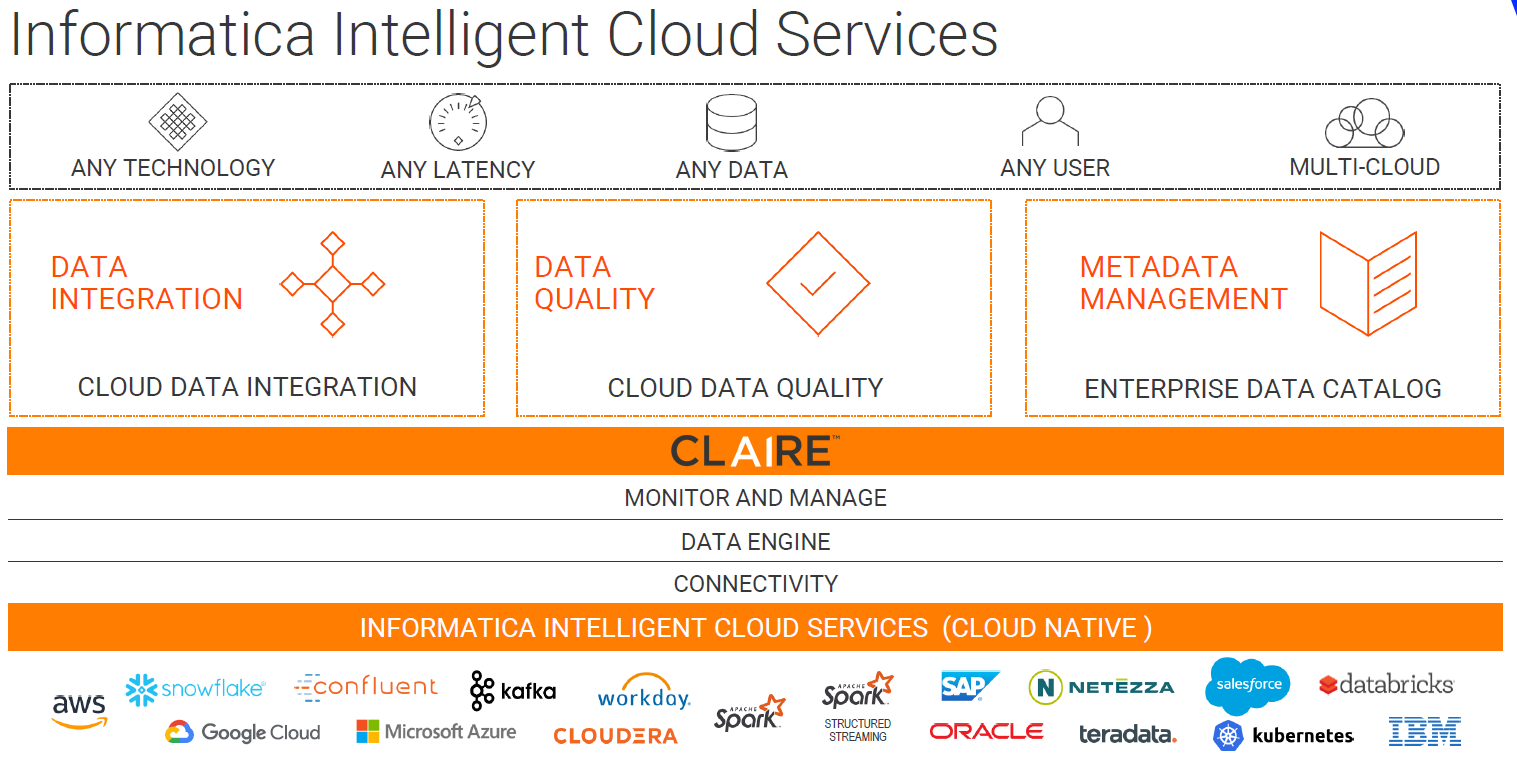
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Goal

Extract Metadata from 2 different REST APIs and load into Snowflake.



Strategy

There are two options. Both options require truncating the Snowflake table(s) before loading the data.

1. Call both Rest APIs and correlate/join information using a specific ID and load the resulting data into a single table.



For more details see “Table Structure - Data Mapping for Shell Script.xlsx” in the “Option 1 - JUST\_ON\_TABLE” sheet.

1. Call each Rest API and Load it into 2 different tables.



For more details see “Table Structure - Data Mapping for Shell Script.xlsx” in the “Option 1 - SEPARATED\_TABLES” sheet.

Process

This is a 4-step process.

1. Connect and get Session ID
2. Get Metadata from Mapping Tasks Load (5.1 Rest API)
3. Get Metadata from Taskflows (5.2 Rest API)
4. Load Data into Snowflake table(s) – Truncate/load strategy

The first step is to login into IICS Org using the proper user and get the Session ID in which will be used as base for all subsequent calls. If the Session ID expires after 5-30 minutes, in order to run all the subsequent calls, it will be necessary to run this Step 1 again. It takes 1-2 seconds to run.

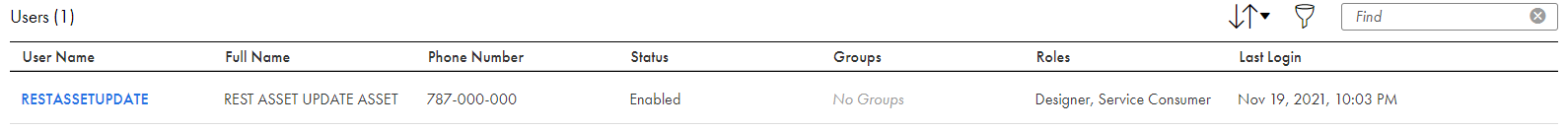
The Second and Third steps can be called together and depends on the Option for load (single vs multiple snowflake tables). As last step it will truncate the Snowflake table(s) before loading the data.

**Step1. Create Login Session and take the Session ID (icSessionID)**

Provide the User and Password in the BODY. The session ID (icSessionID) is very important and we need to use it for all subsequent execution Steps (2/3/4).

Make sure the login in Step 1 has access and permission on the objects that need to be changed. The IICS User needs to have the following roles:

* Designer
* Service Consumer

The IICS user utilized in this doc is RESTASSETUPDATE.

**Configuration:**

**METHOD:** POST

**URL:** https://dm1-us.informaticacloud.com/ma/api/v2/user/login

**Content-Type:** application/json

**Accept:** application/json

**BODY**

{

**"@type":** "login",

"**username":** "**user@infa.com**",

**"password":** "**mypassword**"

}

**Response**:

{

"id": "010ZOV03000000000005",

"orgId": "010ZOV",

"orgUuid": "l5QfYyd4iUikbxv5QRlzWg",

"name": "RFONESCA01",

"description": "",

"createTime": "2021-10-15T15:58:59.000Z",

"updateTime": "2021-11-11T16:49:11.000Z",

"createdBy": "vmahajan",

"updatedBy": "RFONESCA01",

"sfUsername": null,

"firstName": "Rafael",

"lastName": "Fonseca",

"title": "Consultant",

"password": "\*\*\*\*\*\*\*\*",

"phone": "9528873902",

"emails": "rafael.fonseca@redpillanalytics.com",

"timezone": null,

"serverUrl": "https://usw1.dm1-us.informaticacloud.com/saas",

"**icSessionId**": "9Cwe9XLJms0f0EAXDWOnW3",

"securityQuestion": "What is your pet's name?",

"securityAnswer": "\*\*\*\*\*\*\*\*",

"uuid": "8vG8Ai5MWhCbs18ZwcpZKz",

"forceChangePassword": false,

"roles": [],

"usergroups": [

{

"id": "kHP2MIrC66Rcht0Bj5W8S5",

"orgId": "010ZOV",

"name": "Donaldson Admin Group",

"description": "",

"createTime": "2021-09-29T17:40:23.000Z",

"updateTime": "2021-09-29T17:40:23.000Z",

"createdBy": "FFL31108.spencer.frothinger@donaldson.com",

"updatedBy": "FFL31108.spencer.frothinger@donaldson.com"

}

],

"spiUrl": "https://usw1-cai.dm1-us.informaticacloud.com"

}

Step 2. Call The 5.1 Rest API to Mapping Task Load Metadata Extraction.

**Graphical user interface, text, application, email

Description automatically generated**

**Configuration:**

**METHOD**: GET

**URL:** https://usw1.dm1-us.informaticacloud.com/saas/api/v2/activity/activityLog

**[Header]**

**Content-type**: application/json

**Accept:**application/json

**icSessionID:** YOU\_GET\_THIS\_INFO\_IN\_STEP\_1\_LOGIN

**Response**:

[

{

"@type": "activityLogEntry",

"id": "011AUZC10000000002BM",

"type": "MTT",

"objectId": "011AUZ0Z000000000005",

"objectName": "MTT\_INITIAL\_SETUP\_LOAD\_PARM\_CTL\_2\_1\_2",

"runId": 20,

"startTime": "2022-07-21T12:17:10.000Z",

"endTime": "2022-07-21T12:18:03.000Z",

"startTimeUtc": "2022-07-21T16:17:10.000Z",

"endTimeUtc": "2022-07-21T16:18:03.000Z",

"state": 1,

"failedSourceRows": 0,

"successSourceRows": 204,

"failedTargetRows": 0,

"successTargetRows": 204,

"startedBy": "controlm\_qa",

"runContextType": "REST\_API\_V2",

"entries": [

{

"@type": "activityLogEntry",

"id": "16810584",

"type": "MTT",

"objectName": "",

"runId": 20,

"agentId": "010ZOV08000000000008",

"runtimeEnvironmentId": "010ZOV25000000000007",

"startTime": "2022-07-21T12:17:10.000Z",

"endTime": "2022-07-21T12:18:03.000Z",

"startTimeUtc": "2022-07-21T16:17:10.000Z",

"endTimeUtc": "2022-07-21T16:18:03.000Z",

"state": 1,

"failedSourceRows": 0,

"successSourceRows": 204,

"failedTargetRows": 0,

"successTargetRows": 204,

"errorMsg": "No errors encountered.",

"startedBy": "controlm\_qa",

"runContextType": "REST\_API\_V2",

"entries": [],

"subTaskEntries": [],

"logEntryItemAttrs": {

"CONSUMED\_COMPUTE\_UNITS": "0.0",

"ERROR\_CODE": "0",

"IS\_SERVER\_LESS": "false",

"REQUESTED\_COMPUTE\_UNITS": "0.0",

"SERVICE\_TYPE": "CDI",

"Session Log File Name": "s\_mtt\_09ZFFlz25APf4U2GonIJKV\_0.log"

},

"sessionVariables": {

"$$TSK\_RUN\_ID": "734806099286753280"

},

"taskRuntimeInfo": "{\"payload\":{\"inOutParameters\":[{\"name\":\"TSK\_RUN\_ID\",\"currentValue\":\"734806099286753280\",\"@type\":\"mtTaskInOutParameter\"}],\"@type\":\"mtTaskRuntime\",\"taskProperties\":[]},\"meta\":{}}",

"totalSuccessRows": 0,

"totalFailedRows": 0,

"stopOnError": false,

"hasStopOnErrorRecord": false,

"contextExternalId": "011AUZ0Z000000000005",

"transformationEntries": [

{

"@type": "transformationLogEntry",

"id": "32436729",

"txName": "IICS\_EDW\_PARAM\_CTL\_COUNT\_val",

"txType": "SOURCE",

"successRows": 1,

"failedRows": 0

},

{

"@type": "transformationLogEntry",

"id": "32436730",

"txName": "SQ\_IICS\_EDW\_PARAM\_CTL",

"txType": "SOURCE",

"successRows": 203,

"failedRows": 0

},

{

"@type": "transformationLogEntry",

"id": "32436731",

"txName": "IICS\_EDW\_PARAM\_CTL",

"txType": "TARGET",

"successRows": 0,

"failedRows": 0

},

{

"@type": "transformationLogEntry",

"id": "32436732",

"txName": "TMP\_Global\_Parameters\_txt",

"txType": "TARGET",

"successRows": 203,

"failedRows": 0

},

{

"@type": "transformationLogEntry",

"id": "32436733",

"txName": "IICS\_EDW\_LOAD\_SETUP\_CTL",

"txType": "TARGET",

"successRows": 1,

"failedRows": 0

}

]

}

],

"totalSuccessRows": 0,

"totalFailedRows": 0,

"stopOnError": false,

"hasStopOnErrorRecord": false,

"parentTaskFederatedId": "eVDRlIdu8IelmZ2fXr2Wyb"

}

]

Step 3. Get Metadata from Taskflows (5.2 Rest API).

**Configuration:**

**METHOD**: GET

**URL:** https://usw1.dm1-us.informaticacloud.com/saas/public/core/v3/objects?q=type=='TASKFLOW'

**[Header]**

Content-type: application/json

Accept:application/json

icSessionID: YOU\_GET\_THIS\_INFO\_IN\_STEP\_1\_LOGIN

Graphical user interface, text, application, email

Description automatically generated

**Response**:

{

    "count": 47,

    "objects": [

        {

            "id": "1ClicHy8OLmkVCbv1sanYT",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_APD\_Standalone",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:39:54Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

                "publishedBy": "LSILVA\_QA",

                "publicationStatus": "published",

                "publicationDate": "2022-07-20T02:43:14Z"

            }

        },

        {

            "id": "18roALpkEqKf7BieiKjUkJ",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_ASCP\_Demand",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:39:54Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

                "publicationDate": "2022-07-20T02:43:16Z"

            }

        },

        {

            "id": "fjCpEKUQiIMg4Rl0JH1oEX",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_BOM\_Load",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:42:58Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

                "publicationDate": "2022-07-20T02:44:14Z"

            }

        },

        {

            "id": "jaPCISvN4Mud6j1CQq60g6",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_BOM\_Load\_All",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:43:01Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

                "publishedBy": "LSILVA\_QA",

                "publicationStatus": "published",

                "publicationDate": "2022-07-20T02:43:20Z"

            }

        },

        {

            "id": "7EGuXroJTerit3ghGDJ6gM",

            "path": "EDW\_LOAD\_CONTROL/TEST/DCI\_BOM\_Load\_All",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-21T13:30:11Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

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            }

        },

        {

            "id": "0B16FZ0YVN0ipCnbVdQGE2",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Brazil\_Sales",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

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        },

        {

            "id": "2ij06EWJh9AbGtEO917FYQ",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Budget\_Plan",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

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            "tags": [],

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            }

        },

        {

            "id": "5iBUeCVXumRedakzxQ0aej",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Current\_State\_RU",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

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        {

            "id": "0ZCkc3gfKUngmRLeaK0Woa",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Flat\_File\_Data\_Load",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:42:58Z",

            "tags": [],

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        },

        {

            "id": "5pUp1v67qFylKnIJfT2Oau",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_PARTMO\_Sales",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

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            }

        },

        {

            "id": "iboPshcMfEfiY4e26j8UIS",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Price\_Fact\_Instance",

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        },

        {

            "id": "8zu1RcCQRwjhjeRVDwCIM0",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Product\_Search\_Instance",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:43:01Z",

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            }

        },

        {

            "id": "6Yr5ZSxtrBteqXb2D9C16y",

            "path": "Enterprise Data Warehouse/EDW Taskflows/DCI\_R12\_DATAWAREHOUSE\_Test",

            "type": "TASKFLOW",

            "description": "",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-21T16:33:28Z",

            "tags": [],

            "sourceControl": **null**,

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                "publicationStatus": "published",

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        },

        {

            "id": "6BmvG19v812lmOTiS3Su6q",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_REX\_Standalone",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:43:01Z",

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            }

        },

        {

            "id": "9bgqwV0dYsRgxGAyoOW3g1",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Sales\_Order\_RT\_Load",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:39:54Z",

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        {

            "id": "0HcUU7UcoGshrbZpI43RIo",

            "path": "Enterprise Data Warehouse/EDW Secondary Taskflows/DCI\_Work\_Order\_RT\_Load",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T02:39:54Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

                "publicationDate": "2022-07-20T02:43:05Z"

            }

        },

        {

            "id": "1QUJoSyqJnbcx96wA5TgQU",

            "path": "EDW\_LOAD\_CONTROL/DCI\_Work\_Order\_RT\_Load",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SIL list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-21T13:30:10Z",

            "tags": [],

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                "publicationStatus": "published",

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            }

        },

        {

            "id": "7y7pKg1PWq5fMrpk76OyS7",

            "path": "Enterprise Data Warehouse/EDW Taskflows/Taskflow01",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from SDE list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T14:40:35Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

                "publicationDate": "2022-07-20T03:11:41Z"

            }

        },

        {

            "id": "2TfpIsyem0dfG1kgqGRd0C",

            "path": "Enterprise Data Warehouse/EDW Taskflows/Taskflow02",

            "type": "TASKFLOW",

            "description": "this taskflow aims to run maps from DAC list",

            "updatedBy": "LSILVA\_QA",

            "updateTime": "2022-07-20T03:09:25Z",

            "tags": [],

            "sourceControl": **null**,

            "customAttributes": {

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                "publicationStatus": "published",

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            }

        },

        {

            "id": "6gbTBcRSSiFhPsphAPfXuJ",

            "path": "Enterprise Data Warehouse/EDW Taskflows/Taskflow03",

            "type": "TASKFLOW",

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Step 4. Loading data in the Snowflake table(s).

The Shell Script would need to load the data in the Snowflake table(s) according to the strategy used (Option 1 vs Option 2).

The job would need to truncate the Snowflake table before loading the data.