Data Streaming

Reference Guide

Document Details

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System Requirements

- CES Version 11.00.00.00 or higher

Overview

This document explains how set up Data Streaming for your Crunchtime data in Inventory, Labor, and Zenput

Download the latest version of this document here:
https://links.crunchtime.com/RG-CrunchtimeDataStreaming

… or scan the QR code to the left.

Related Documentation

- Inventory/Labor Data Streaming Dictionary: https://links.crunchtime.com/OpsM-DataStreamingDictionary
- Zenput Data Streaming Dictionary: https://links.crunchtime.com/OpsX-DataStreamingDictionary

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Data Streaming

Overview

Crunchtime Data Steaming gives restaurant brands access to raw operational data for reporting and analysis in their own tools.

- **Own Your Data:** Get complete access to your Inventory, Labor, and Zenput data so you can run complex analysis across your entire business.
- **Your Snowflake; Your Rules:** Because this data is streamed directly to your own Snowflake environment, you can manage your fail-safe and retention policies to ensure they adhere to your corporate standards.

Data Streaming is one of four ways in which customers are able to access, analyze, and/or export their data outside of Crunchtime; the other options are:

- **Crunchtime Insights:** a paid Crunchtime reporting and analytics product for Inventory, Labor, and Zenput
- **APIs:** available for free via our Developer Hub for our Inventory, Labor, Zenput, and Learning & Development products
- **User Defined Exports (UDEs):** manually exported, flat-file exports of Crunchtime Inventory & Labor data

Requirements for Inventory & Labor (See Pg. 3):

The customer is expected to…

- provision a DATABASE in Snowflake to be used to store the data from the Streaming service.
- provision a WAREHOUSE in Snowflake to process the Streaming data ingress to the DATABASE. This WAREHOUSE is intended for data ingress only, so it may be optimized for the ingress workloads.
- provision a user account, permission that account as defined in this document and provide the account to Crunchtime to use.

Crunchtime will administer…

- the SCHEMA.
- the TABLES.

Snowflake reference materials are all available online including a Snowflake: Getting Started Guide. Links to the Snowflake documentation are provided as part of the implementation steps for easy reference.

Requirements for Zenput (See Pg. 5):

The customer is expected to…

- provision a Snowflake instance. For more information, check out the Snowflake: Getting Started Guide.
- provide the Snowflake *Data Sharing Account Identifier* to Crunchtime.

Crunchtime will…

- grant access to a private listing.

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Implementation Steps for Inventory and Labor

The following the steps should be executed by the customer in their Snowflake environment.

1. Create a DATABASE named “CRUNCHTIME”.

```
CREATE DATABASE CRUNCHTIME
```

Snowflake Reference: CREATE DATABASE

2. Create a WAREHOUSE named “COMPUTE_CT_INGRESS “. The minimum size is “medium”, but this may be required to be of a larger size for some customers where the “medium” sizing will not be able to keep up with the volume of data being streamed.

```
CREATE WAREHOUSE COMPUTE_CT_INGRESS WITH
 warehouse_size                          = "medium"
 warehouse_type                          = "STANDARD"
 auto_resume                             = true
 auto_suspend                            = 60
 enable_query_acceleration               = true
 query_acceleration_max_scale_factor     = 10;
```

Snowflake Reference: CREATE WAREHOUSE

3. Create a ROLE named “R_CT_INGRESS” and apply permissions.

```
CREATE ROLE R_CT_INGRESS COMMENT = 'This role has all privileges on
schemas associated with Crunchtime.';

GRANT USAGE ON WAREHOUSE COMPUTE_CT_INGRESS TO ROLE R_CT_INGRESS ;

GRANT USAGE ON DATABASE CRUNCHTIME TO ROLE R_CT_INGRESS ;

GRANT CREATE SCHEMA ON DATABASE CRUNCHTIME TO ROLE R_CT_INGRESS ;

GRANT MONITOR ON DATABASE CRUNCHTIME TO ROLE R_CT_INGRESS ;

GRANT IMPORTED PRIVILEGES ON DATABASE SNOWFLAKE TO ROLE R_CT_INGRESS ;
```

Snowflake Reference: CREATE ROLE

(Continued)

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Implementation Steps for Inventory and Labor (Continued)

4. Open a Crunchtime Support Ticket, and do the following:
    a. Request the generation of a key-pair for authentication related to Data Streaming
    b. Provide the full URL of your Snowflake environment.

    For example: "Hi Support, I am a new Data Streaming customer and I've reached Step 4 in the implementation. Can you please generate the keypair for authentication? My Snowflake URL is {customer enter full url here}"

    Snowflake Reference: KEY-PAIR AUTHENTICATION AND ROTATION

5. Create a USER named "CTSERVICEACCT"

```
CREATE OR REPLACE USER CTSERVICEACCT
LOGIN_NAME = 'ctserviceacct'
EMAIL = 'tyod@crunchtime.com'
TYPE = SERVICE
DEFAULT_WAREHOUSE = COMPUTE_CT_INGRESS
DEFAULT_ROLE = R_CT_INGRESS;

ALTER USER CTSERVICEACCT SET RSA_PUBLIC_KEY='the-value-provided-by-crunchtime';
GRANT ROLE R_CT_INGRESS TO USER CTSERVICEACCT;
```

    Snowflake Reference: CREATE USER

6. In the same Crunchtime Support Ticket opened in Step 4, request Crunchtime to confirm connectivity of the CTSERVICEACCT account.

    For example: "Hi Support, I have configured the CTSERVICEACCT account. Can you please confirm connectivity?"

7. You're all set! Crunchtime will proceed with the remaining steps of creating the SCHEMA, tables and instantiating the data streaming.

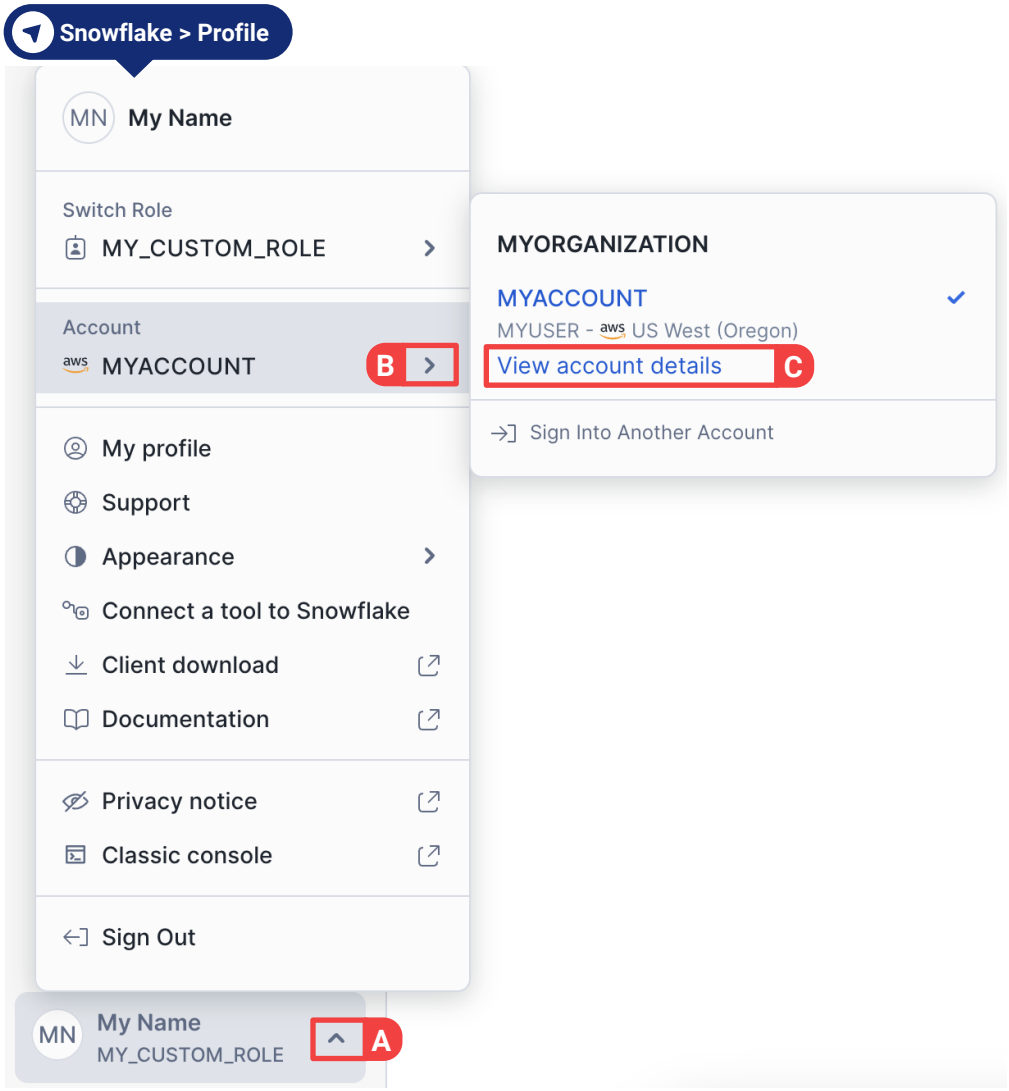
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Implementation Steps for Zenput

After provisioning a Snowflake instance, the following the steps should be executed by the customer in their Snowflake environment.



1. Navigate to view your account details as shown:
   - A Expand your profile menu
   - B Select your account
   - C Choose *View account details*
2. Copy the value in your *Data Sharing Account Identifier* field. It should be in the format: <orgname>.<account_name>
3. Create a Crunchtime Support Ticket to send Crunchtime this *Data Sharing Account Identifier* value, and our team will grant you access to a private listing.

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