

Consumer installation steps and app configuration setup

Standard native app installation

Step 1 – Download the App and select the review terms to install, then click ‘Get’.

VYQVZAV.GI06323 - Daman Database Change Manager

Shared Privately with You

Baked-in Governance & Security

Optimized Performance

Fully Managed

Daman Database Change ...

About the "Daman Database Change Manager". This Snowflake Native Application developed by DAMAN inc. gives the consumers the ability to deploy the code from any source control and manage the entire de...

Options

Application name

Daman_Database_Change_Manager

A new application will be created.

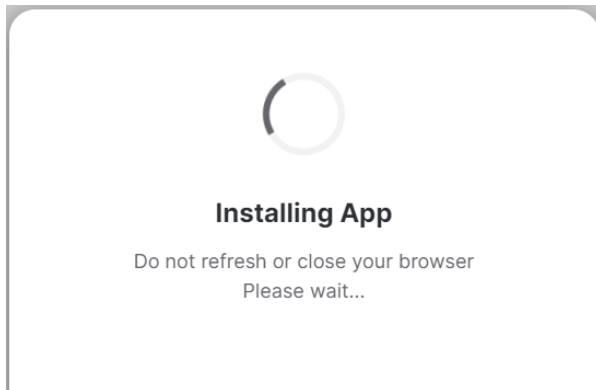
Warehouse used for installation

• COMPUTE_WH

Get


By clicking "Get", you agree to Snowflake sharing your company name, this account name, your name and email address with VYQVZAV.GI06323. VYQVZAV.GI06323 may follow up with information about its products on the Snowflake Marketplace. Snowflake and VYQVZAV.GI06323 process the personal information you provide us in accordance with our [Privacy Notice](#).

Step 2 – App will install and after installation it will show in the “Installed Apps”.



Installed Apps



TITLE	OWNER	VERSION	INSTALLED ↓
<div><div>v</div><div>Daman Database Change Manager</div><div>VYQVZAV.GI06323 DAMAN_DATABASE_CHANGE_M...</div></div>	<div> ACCOUNTADMIN</div>	v1.1.p92	3 minutes ago ...

Step 3 – Click on the main page setup. .Review the Anaconda packages , then click “Acknowledge & continue”

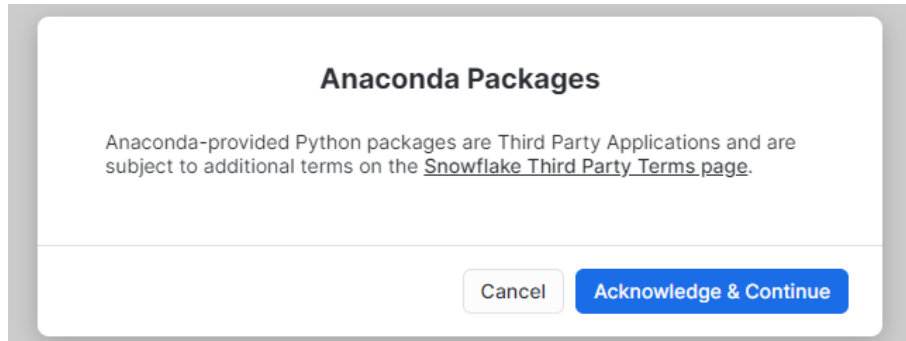
< Apps DEPLOYAPP Main_Page_Setup Approver_Dashboard Configuration_ui Requestor_Dashboard



Enable Anaconda Python packages to use Streamlit

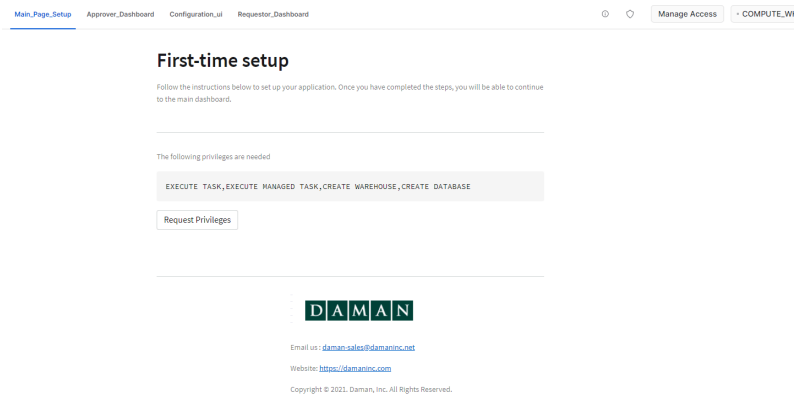
The Python packages are Third Party Applications and are subject to additional terms on the [Snowflake Third Party Terms page](#)

[Review](#)

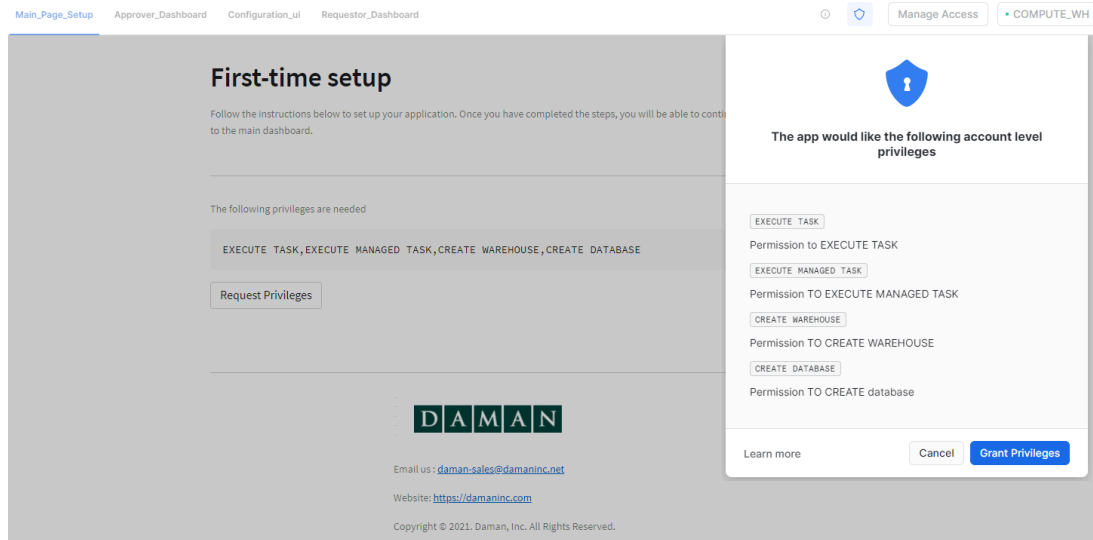


App configuration setup

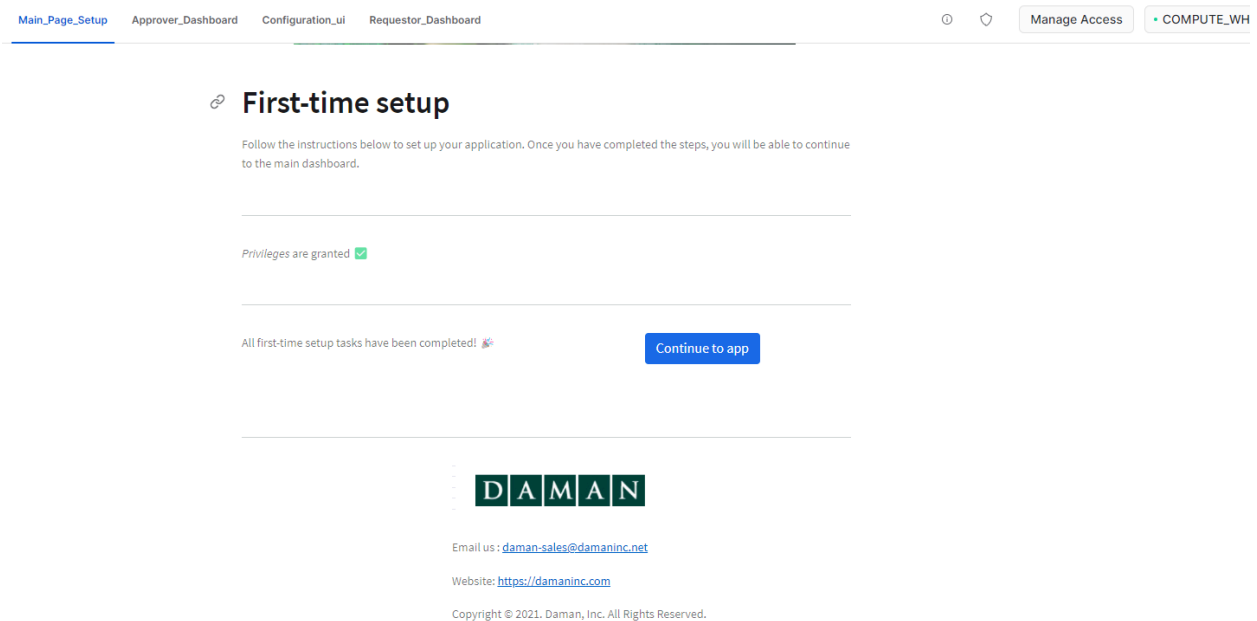
Step 4 – Complete the first-time setup by giving the required permissions for the APP user.



Step 5 – Please validate the privileges based on your company policies and then Click on “Grant privilege”.



Step 6 – After the first-time setup , click on “Continue to App”.



Step 7 – Go to the Readme section and copy the “set account roles” SQL in the worksheet. These scripts create the required roles for the app.

< Apps **Daman Database Change Manager** Main_Page_Setup Approver_Dashboard Configuration_ui Requestor_Dashboard

related objects required by the app in this database. Only the DEPLOY_APP application user will have access to these objects.Consumer can access the UI to get the details about the deployment requests.

After the App is installed the below scripts needs to be run by the accountadmin.

Set up account roles

To setup the app for consumer use, some of roles need to be configured first. This only needs to be done once. Please run the Below scripts

```
GRANT EXECUTE TASK, EXECUTE MANAGED TASK,CREATE DATABASE,CREATE WAREHOUSE ON
ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN WITH GRANT OPTION;
GRANT ROLE RL_CONS_DATAUSER TO ROLE RL_CONS_PLATFORMADMIN;
GRANT ROLE RL_CONS_DATAADMIN TO ROLE RL_CONS_PLATFORMADMIN;

CREATE OR REPLACE WAREHOUSE DEPLOYAPP_WH;
-- ENSURE A WAREHOUSE IS USABLE BY CONSUMER
GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_PLATFORMADMIN;
GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_DATAADMIN;
GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_DATAUSER;
```

Github Integration Setup

Below are pre-requisite for Native App and Github Integration. Execute below sql queries. Replace the secret token for your repo in the Below script before deploying. Please note that the Github integration does not work on trial account.

```
USE ROLE RL_CONS_PLATFORMADMIN;
USE WAREHOUSE DEPLOYAPP_WH;

CREATE OR REPLACE DATABASE GITHUB_SECRETS;
GRANT USAGE ON DATABASE GITHUB_SECRETS TO ROLE RL_CONS_PLATFORMADMIN;

USE DATABASE GITHUB_SECRETS;

CREATE OR REPLACE NETWORK RULE GITHUBREPO_ACCESS_RULE
MODE = EGRESS
TYPE = HOST_PORT
```

Step 8 – Execute the “set account roles” SQL in the worksheet.

< Worksheets RReadme **Account_Roles** +

Databases Worksheets

Pinned (0)

No pinned objects

Q Search objects ...

- > DAMAN_DATABASE_CHANGE_MANAGER
- > GITHUB_SECRETS
- > SNOWFLAKE
- > SNOWFLAKE_SAMPLE_DATA

No Database selected Settings

ACCOUNTADMIN DEPLOYAPP_WH Share

Code Versions

```
1 -- create consumer role
2 CREATE ROLE IF NOT EXISTS RL_CONS_PLATFORMADMIN;
3 CREATE ROLE IF NOT EXISTS RL_CONS_DATAADMIN;
4 CREATE ROLE IF NOT EXISTS RL_CONS_DATAUSER;
5
6 -- GRANT THE ACCESS TO PLATFORMADMIN ROLE
7 GRANT ROLE RL_CONS_PLATFORMADMIN TO ROLE ACCOUNTADMIN;
8 GRANT EXECUTE ALERT ON ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN;
9 GRANT CREATE DATABASE ON ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN;
10 GRANT CREATE APPLICATION ON ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN;
11 GRANT CREATE INTEGRATION ON ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN;
12 GRANT EXECUTE TASK, EXECUTE MANAGED TASK,CREATE DATABASE,CREATE WAREHOUSE ON ACCOUNT TO ROLE RL_CONS_PLATFORMADMIN WITH GRANT OPTION;
13 GRANT ROLE RL_CONS_DATAUSER TO ROLE RL_CONS_PLATFORMADMIN;
14 GRANT ROLE RL_CONS_DATAADMIN TO ROLE RL_CONS_PLATFORMADMIN;
15
16 CREATE OR REPLACE WAREHOUSE DEPLOYAPP_WH;
17 -- ENSURE A WAREHOUSE IS USABLE BY CONSUMER
18 GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_PLATFORMADMIN;
19 GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_DATAADMIN;
20 GRANT USAGE ON WAREHOUSE DEPLOYAPP_WH TO ROLE RL_CONS_DATAUSER;
21
22 GRANT APPLICATION ROLE Daman_Database_Change_Manager_RL_APP_PLATFORMADMIN TO ROLE RL_CONS_PLATFORMADMIN;
23 GRANT APPLICATION ROLE Daman_Database_Change_Manager_RL_APP_DATAADMIN TO ROLE RL_CONS_DATAADMIN;
24 GRANT APPLICATION ROLE Daman_Database_Change_Manager_RL_APP_DATAUSER TO ROLE RL_CONS_DATAUSER;
```

Results Chart

status
1 Statement executed successfully.

Query Details

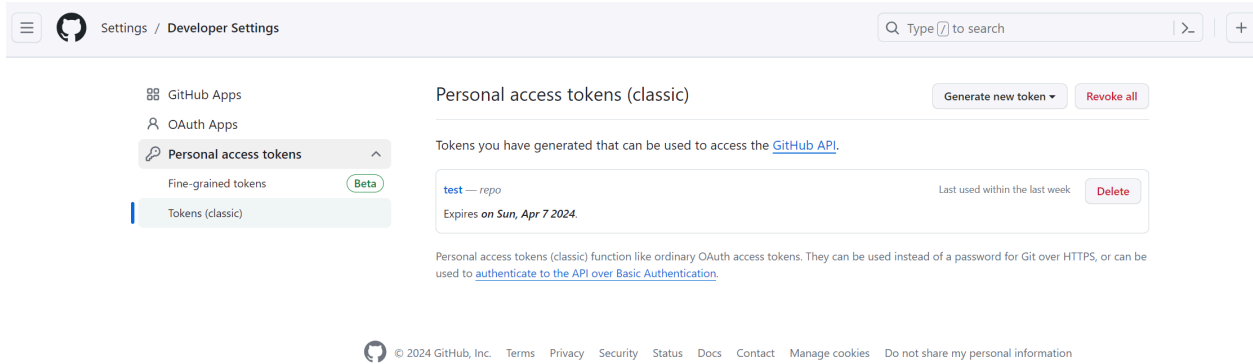
Query duration 90ms

Rows 1

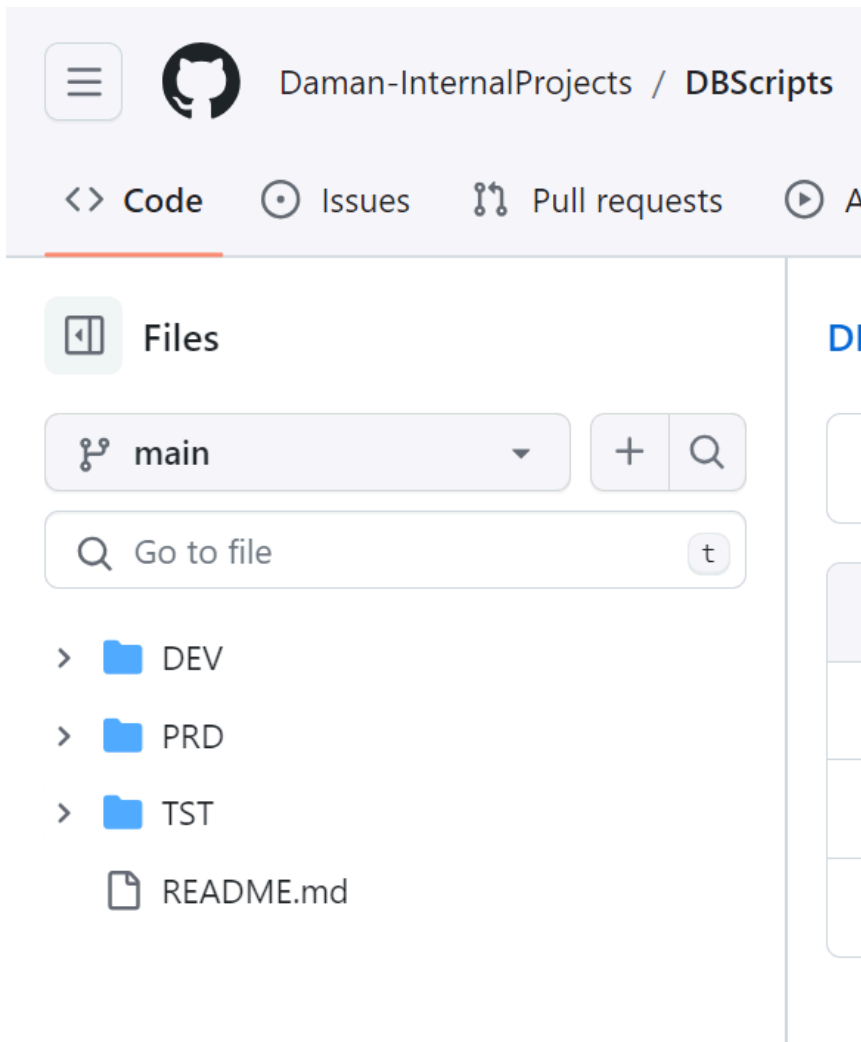
Step 9 – Set up the GitHub configuration. Get the corresponding token from Github.

Navigate to the <https://github.com/settings/tokens> and click on the tokens in “Developer settings”.

Generate a new token and copy it.



Note - The folder structure in the Github should be set as per the document



Step 10 – Run the “Github configuration “ sql ,after replacing the github token obtained above.

Worksheets Readme Account_Roles **GitHub Access** +

Databases Worksheets

Pinned (0)

No pinned objects

Q Search objects ...

- > DAMAN_DATABASE_CHANGE_MANAGER
- > GITHUB_SECRETS
- > SNOWFLAKE
- > SNOWFLAKE_SAMPLE_DATA

No Database selected Settings

```

1  USE ROLE RL_CONS_PLATFORMADMIN;
2  USE WAREHOUSE DEPLOYAPP_WH;
3
4  CREATE OR REPLACE DATABASE GITHUB_SECRETS;
5  GRANT USAGE ON DATABASE GITHUB_SECRETS TO ROLE RL_CONS_PLATFORMADMIN;
6
7  USE DATABASE GITHUB_SECRETS;
8
9  CREATE OR REPLACE NETWORK RULE GITHUBREPO_ACCESS_RULE
10 MODE = EGRESS
11 TYPE = HOST_PORT
12 VALUE_LIST=('api.github.com:443');
13
14 CREATE OR REPLACE SECRET SECRET_GITHUB_TOKEN
15 TYPE = GENERIC_STRING
16 SECRET_STRING = '<your_token>';
17
18 USE ROLE ACCOUNTADMIN;
19
20 CREATE OR REPLACE EXTERNAL ACCESS INTEGRATION GITHUBREPO_EXTERNAL_ACCESS_INTEGRATION
21 ALLOWED_NETWORK_RULES = (GITHUBREPO_ACCESS_RULE)
22 ALLOWED_AUTHENTICATION_SECRETS = ('GITHUB_SECRETS.PUBLIC.SECRET_GITHUB_TOKEN')
23 ENABLED = TRUE;
24
25 GRANT USAGE ON DATABASE GITHUB_SECRETS TO ROLE RL_CONS_PLATFORMADMIN;
26 GRANT USAGE ON SCHEMA GITHUB_SECRETS.PUBLIC TO ROLE RL_CONS_PLATFORMADMIN;
27 GRANT READ ON SECRET GITHUB_SECRETS.PUBLIC.SECRET_GITHUB_TOKEN TO ROLE RL_CONS_PLATFORMADMIN;
28
29 GRANT USAGE ON INTEGRATION GITHUBREPO_EXTERNAL_ACCESS_INTEGRATION TO APPLICATION Daman_Database_Change_Manager;
30 GRANT USAGE ON DATABASE GITHUB_SECRETS TO APPLICATION Daman_Database_Change_Manager;
31 GRANT USAGE ON SCHEMA GITHUB_SECRETS.PUBLIC TO APPLICATION Daman_Database_Change_Manager;
32 GRANT READ ON SECRET GITHUB_SECRETS.PUBLIC.SECRET_GITHUB_TOKEN TO APPLICATION Daman_Database_Change_Manager;
33 GRANT READ ON SECRET GITHUB_SECRETS.PUBLIC.SECRET_GITHUB_TOKEN TO APPLICATION Daman_Database_Change_Manager;
34 GRANT READ ON STAGE SOURCE TO APPLICATION Daman_Database_Change_Manager;
35 GRANT USAGE ON SCHEMA DEPLOYAPP_PKG.CODE TO APPLICATION Daman_Database_Change_Manager;
36 GRANT READ ON STAGE DEPLOYAPP_PKG.CODE.SOURCE TO APPLICATION Daman_Database_Change_Manager;

```

Step 11 – Configure the GitHub repo , by navigating to the configuration_ui screen -> Source Code Setting.

pps Daman Database Change Manager Main_Page_Setup Approver_Dashboard **Configuration_ui** Requestor_Dashboard

Snowflake DB setting **Source Code Setting** Environment-Database Mapping Source Repo Mapping

Source type

Github

BitBucket(Under Development)

Azure Devops(Under Development)

Step 12 – Select the Source type as “Github” and add the Repository name and press “Submit”

Daman Database Change Manager Main_Page_Setup Approver_Dashboard **Configuration_ui** Requestor_Dashboard

Snowflake DB setting **Source Code Setting** Environment-Database Mapping Source Repo Mapping

Source type

Github

Enter the Repo Name

Daman-InternalProjects/DBScripts

Submit

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Step 13 – Validate the GitHub setup by navigating to the “Source Repo Mapping”. This completes the GitHub setup.

Daman Database Change Manager Main_Page_Setup Approver_Dashboard **Configuration_ui** Requestor_Dashboard

Snowflake DB setting Source Code Setting Environment-Database Mapping **Source Repo Mapping**

	ID	SOURCE_TYPE	REPO_NAME	SECRET_NAME	GIT_INTEGRATION
0	1	GITHUB	Daman-InternalProjects/DBScripts	SECRET_GITHUB_TOKEN	GITHUBREPO_EXT

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Step 14 – For creating a Snowflake database and configuring the environment, navigate to “configuration_ui” and “Snowflake DB Setting”.

The role to manage is an optional field. During the creation of the database ,if any access to a role needs to be granted then the corresponding role can be mentioned.

Click “Submit”.

Enter the Database

ENTERPRISE_TEST

Enter the Role to manage the Database

Environment to be linked

TST

Submit

Step 15 – Validate the database setting by navigating to “configuration_ui” and “Environment Database mapping”. Similar configuration can be done for UAT and Production as well.

	ID	ENVIRONMENT	DATABASE_NAME	ROLE_NAME	LAST_UPDT_DTM
0	1	TST	ENTERPRISE_TEST	None	2024-01-10 11:39:42-08:00
1	2	UAT		None	2024-01-10 10:54:28-08:00
2	3	PRD		None	2024-01-10 10:54:28-08:00

