HIDDEN REALITY HACKATHON - HACK PACK:

Guide for Team Leads

This document is to help guide participants with the easy to follow step by steps to get them started with the hackathon.

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Intro

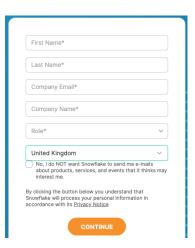
We recommend each team appoints a member as the team lead or admin. This person will set up the team's hackathon environment either before the event kicks off or at the start of the day. Getting set up early is preferred!

This part of our quickstart guide is tailor-made for team leads. We'll guide you through all the necessary steps for a smooth setup, including creating your trial account, setting up users, roles, and resource monitors. Plus, we've got straightforward instructions on importing public datasets and connecting to the Women In Data organisers' data share on the big day. Let's get you prepared and ready to hit the ground running!

Creating Trial Snowflake account

If you've not yet signed up, please register for a <u>complimentary</u> <u>Snowflake free 30-day trial</u>. The rest of the sections of this quickstart guide assumes the use of a fresh Snowflake account, one you'll create upon registering for the trial.

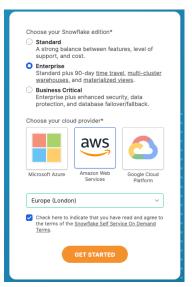
Please note: Even if your organisation already uses Snowflake, we strongly advise setting up a new trial account for this event. This will help sidestep any potential complications with data ingestion, security policies, and so forth.



For the hackathon setup, please configure your Snowflake account with the following settings:

Edition: EnterpriseCloud Provider: AWSRegion: Europe (London)

These settings are essential to ensure optimal performance during the hackathon.



After registering, you will receive an email with an activation link and URL for accessing your Snowflake account.

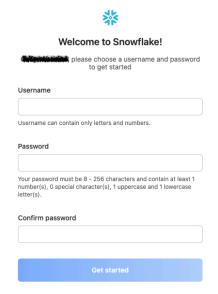
Please note: The activation link is temporary and will expire in 72 hours after your account is created.



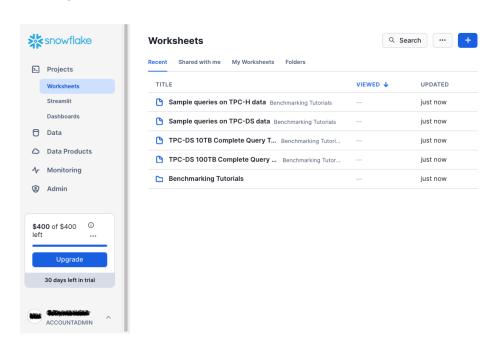
Admin Login to Snowflake account

Use the activation link provided to create your admin user and set up a password. Ensure your password is strong and memorable, or store it in a password manager application. You'll need these admin credentials in the future.

Tip: While any username will work, using 'Admin' keeps things simple.



After entering your credentials and clicking "Get Started," you'll be taken to the Snowflake UI, known as Snowsight. It should look like this:



Copy the account URL and distribute it to your team members. Switch Role ■ WID_HACKER It will resemble the following Account format: ₩5 TI93040 NAAWUDN https://xyz10001.eu-west-2. Copy account URL My profile TI93040 aws.snowflakecomputing.co @ 0 TI93040 Support TEAMLEAD - 🦥 EU (London m C TI93040 Cloud aws Amazon Web Services USER1 - 805 EU (London) Documentation Region Your team members will Edition Enterprise [7] Privacy notice need to use this URL to log GM22001 Locator ←] Sign Out in on the day, using their →] Sign Into Another Account designated usernames (userN). Locate and copy your Snowflake account identifier. ■ WID_HACKER This is required for establishing data sharing ™ TI93040 WID_HACKER with the WiD Snowflake NAAWUDN Copy account identifier My profile account during the event, TI93040 © TI93040 00 Support TEAMLEAD - SEE EU (London) allowing access to an NAAWUDN (2 TI93040 additional dataset. aws Amazon Web Services USER1 - aws EU (London) Cloud □ Documentation 0 Region EU (London) Privacy notice It will resemble the following Locator GM22001 ←] Sign Out format: ABCDEFG.JK10001 →7 Sign Into Another Account Keep this identifier easily accessible. Having it on hand for the event day will facilitate a smooth setup for data sharing.

Please use this form to provide organisers with your Snowflake account details https://bit.ly/3SZ1a2q

Supporting SQL Scripts

The scripts below can assist in setting up your team environment swiftly:

- Setup database and warehouse.sql
- Setup users and roles.sql

You can either copy and paste the text into the Snowflake worksheet or download the files from the provided links and open them in Snowflake as described in the following section.

01 - Setup database and warehouse.sql (https://bit.ly/3km2ytq)

```
USE ROLE SYSADMIN;

CREATE OR REPLACE DATABASE WID_HACKATHON;

CREATE OR REPLACE SCHEMA DATA;

CREATE OR REPLACE WAREHOUSE WID_COMPUTE_WH WITH

WAREHOUSE_SIZE = 'X-SMALL'

AUTO_SUSPEND = 60

AUTO_RESUME = TRUE;

USE ROLE ACCOUNTADMIN;

CREATE OR REPLACE RESOURCE MONITOR WID_HACKATHON_RM

WITH CREDIT_QUOTA = 50

TRIGGERS ON 75 PERCENT DO SUSPEND

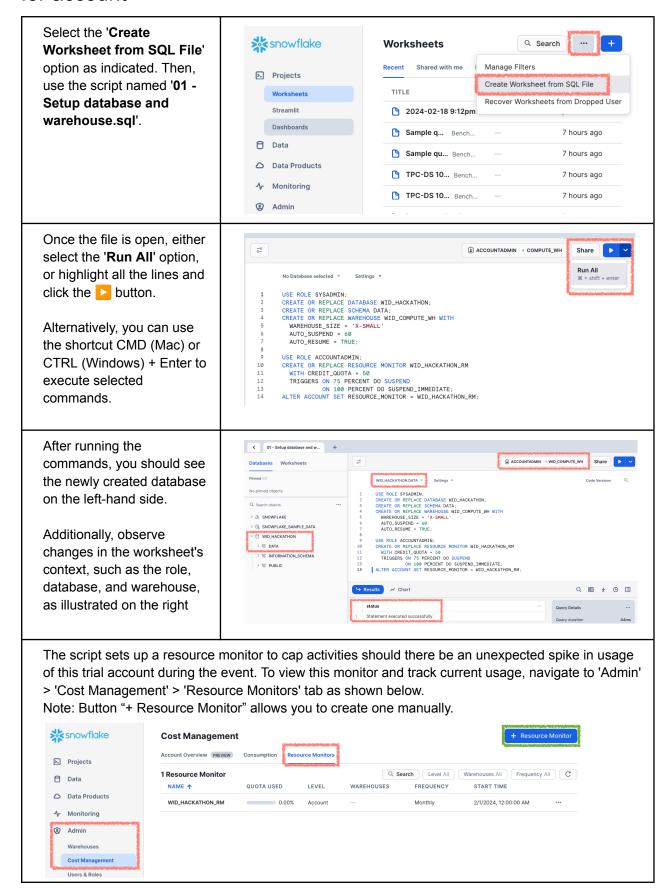
ON 100 PERCENT DO SUSPEND_IMMEDIATE;

ALTER ACCOUNT SET RESOURCE_MONITOR = WID_HACKATHON_RM;
```

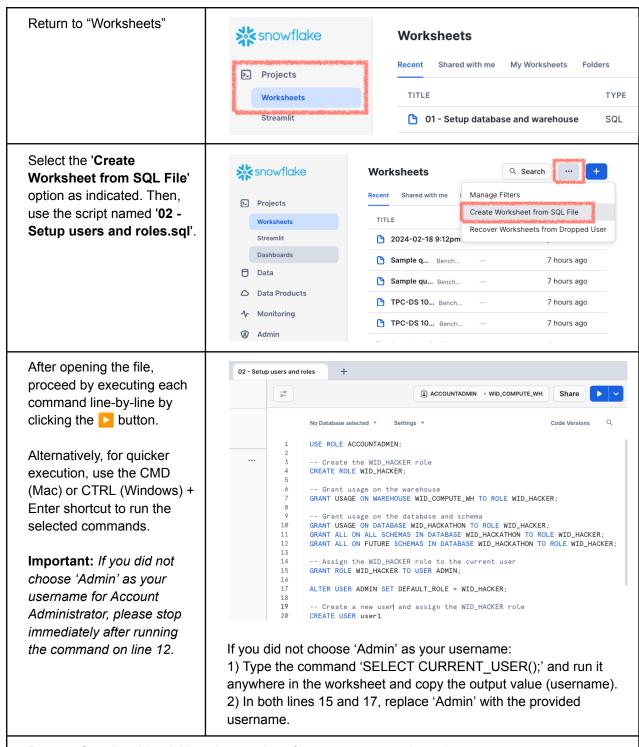
02 - Setup users and roles.sql (https://bit.ly/49TVmyz)

```
USE ROLE ACCOUNTADMIN;
-- Create the WID_HACKER role
CREATE ROLE WID_HACKER;
-- Grant usage on the warehouse
GRANT USAGE ON WAREHOUSE WID COMPUTE WH TO ROLE WID HACKER;
-- Grant usage on the database and grant all right to the schema(s)
GRANT USAGE ON DATABASE WID_HACKATHON TO ROLE WID_HACKER;
GRANT ALL ON ALL SCHEMAS IN DATABASE WID_HACKATHON TO ROLE WID_HACKER;
GRANT ALL ON FUTURE SCHEMAS IN DATABASE WID HACKATHON TO ROLE WID HACKER;
-- Assign the WID_HACKER role to the current user
GRANT ROLE WID HACKER TO USER ADMIN;
ALTER USER ADMIN SET DEFAULT ROLE = WID HACKER;
-- Create a new user and assign the WID HACKER role
CREATE USER user1
  PASSWORD = 'wid welcome'
 DEFAULT ROLE = WID HACKER
 MUST CHANGE PASSWORD = TRUE;
GRANT ROLE WID HACKER TO USER user1;
\mbox{--} Uncomment and update to create as many new users based on your team as
required
CREATE USER user2
 PASSWORD = 'wid_welcome'
 DEFAULT ROLE = WID HACKER
 MUST_CHANGE_PASSWORD = TRUE;
GRANT ROLE WID_HACKER TO USER user2;
```

Setting up database, virtual warehouse and resource monitor for account



Setting up users & roles

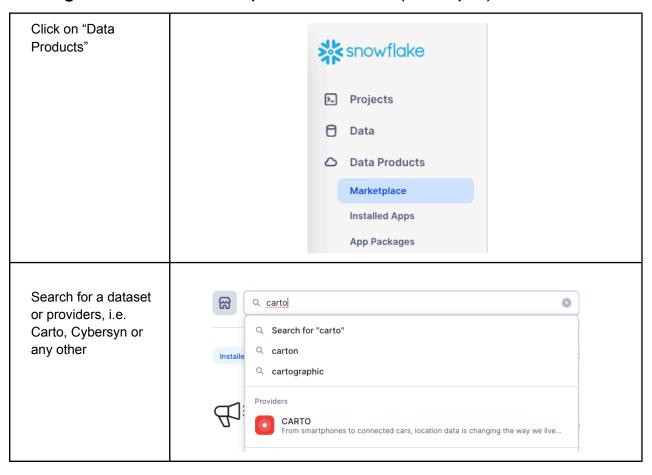


Resume from line 20 to initiate the creation of a new user, named user1.

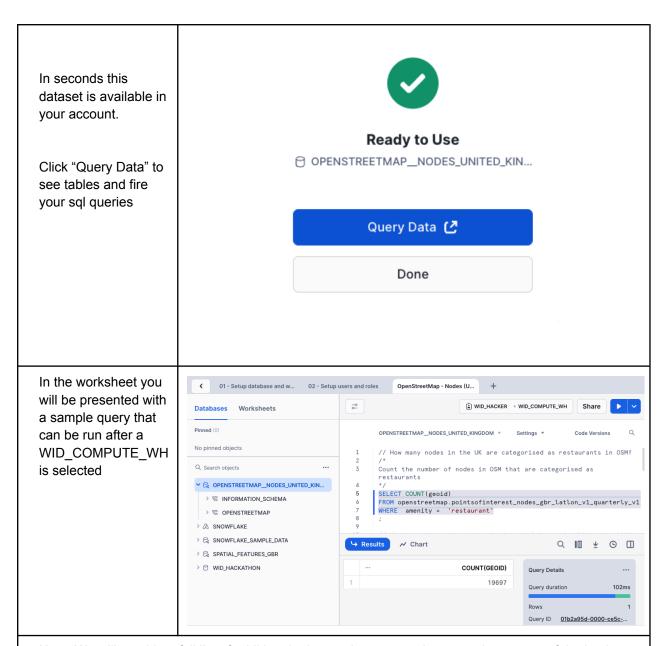
Given that your team will consist of more than one member, it's advisable to create individual user accounts for each team member as required. The provided script aids in this process by generating usernames (user1) with the initial password 'wid_hackathon'. Simply copy & paste the last few lines

related to the creation of user1, and replicate this process to generate as many users as your team needs (user2, user3, etc.). Your team can decide on the day who will use which username. Important: Users will be required to update this default password at their 1st login for security reasons. Your team members will **snowflake** Worksheets require an account URL to login. After logging in and updating □ Data their initial password, new users will gain access to the Snowflake account. <u>(L)</u> 30 days left in trial

Adding Snowflake Marketplace Datasets (example)



Note: We will provide a full list of additional relevant datasets on the event day as part of the hack pack Search For: "OpenStreetMap -Q OpenStreetMap - Nodes (United Kingdom) Browse Data Products Providers
 ⊕ My Requests Nodes (United Kingdom)" OpenStreetMap - Nodes (United Kingdom) Free Click "Get" Button OpenStreetMap (OSM) is a collaborative project to create a free editable map of the world. Created in 2004, it was inspired by the success of Wikipedia and more than two million registered users who can add data by manual survey, GPS devices, aerial photography, and other free sources. OSM is produced as a public good by volunteers, and there are no guarantees about data quality. OpenStreetMap9 is open data, licensed under the Open Data Commons Open Database License (ODbL) by the OpenStreetMap Foundation (OSMF). OSM represents physical features on the ground (e.g. roads or buildings) using tabs attached to its basic data structure (its nodes, ways, and relations). Each tag describes a geographic attribute of the feature being shown by the specific node, way or relation. Nodes are one of the core elements in the OSM data model. It consists of a single point in space defined by its latitude, longitude and node id. Nodes can be used to define standalone point features. 1) Click Options CARTO - OpenStreetMap - Nodes (United Kingdom) 2) Check DATABASE NAME (use default or **Get it for Free** OpenStreetMap - Nodes (U... your own) ✓ Data updated quarterly Ready to Query ✓ Data for United Kingdom at latitude and longitude level No Storage Cost 3) Check WID HACKER role is selected Options 4) Click "Get" button $\ \, \boxdot \ \, \mathsf{OpenStreetMap}_\mathsf{Nodes}_\mathsf{United}_\mathsf{Kingdom}$ A new database will be created. Consumes no storage. Which roles, in addition to ACCOUNTADMIN, can access this database? WID_HACKER (a) ACCOUNTADMIN will be used for this operation (i)



Note: We will provide a full list of additional relevant datasets on the event day as part of the hack pack. You can choose use some, all or none of them for your activity

Private Sharing (On the event day)

