## **Superuser Whitelisting**

Currently, L'Oreal allows employees and contractors to use their own devices.

To allow Users to connect to Snowflake, we will allow a subset of users to connect from the open internet (0.0.0.0/0 IP).

To manage who will have that privilege we will create a stored procedure that will whitelist all users who are associated with a determined AzureAD group ( in our case, \_TECH\_OPEN\_INTERNET\_ACCESS\_ROLE) and any role higher in the role hierarchy.

## NOTE

We will not go higher than one role in the heirarchy

```
CREATE OR REPLACE PROCEDURE OPEN_IP_ADMIN_SP(
   DRIVING_ROLE varchar,
   NETWORK_POLICY varchar
 RETURNS varchar
 LANGUAGE JAVASCRIPT
 COMMENT = 'SP used to whitelist the users associated to a set of roles'
 AS
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//Creating Variables
let v_driving_role = DRIVING_ROLE;
let v_network_policy = NETWORK_POLICY ;
//Sql command to join Account usage user to role, to list of users
let v_return_users_sql = `with hierarchy as
           (select
                 name as parent_id ,
                 name
                            as child_id ,
                  1 level,
                 array_construct(child_id) path,
                 name as top_role
           from snowflake.account_usage.roles r
           where deleted_on is null
           union all
          select
                 pc.grantee_name ,
                 pc.name ,
                 h.level+1 level ,
                 array_cat(h.path, array_construct(pc.name)) path,
                 h.top_role
          from snowflake.account_usage.grants_to_roles pc
          join hierarchy h
         on h.child_id = pc.grantee_name
         where not array_contains(pc.name::variant ,h.path) --eliminate circular references
         and granted_on = 'ROLE'
          and granted_to = 'ROLE'
          and privilege = 'USAGE'
         and deleted_on is null)
         select distinct 'ALTER USER "'||GRANTEE_NAME||'" SET NETWORK_POLICY '||'` + v_network_policy + `'
          from hierarchy h
          join snowflake.account_usage.grants_to_users gtu
             on h.top_role = gtu.role
          where CHILD_ID='` + v_driving_role + `'
          and DELETED_ON IS NULL
          and GRANTEE_NAME like '%@%'
          ;`;
//Execute sql to get list of distinct Users
let v_return_users = snowflake.execute( {sqlText: v_return_users_sql} );
//Looping through the Users
while (v_return_users.next()) {
 let v_user_whitelisting = v_return_users.getColumnValue(1);
 snowflake.execute( {sqlText: v_user_whitelisting} )
}
return "Success"
$$;
call OPEN_IP_ADMIN_SP('_TECH_OPEN_INTERNET_ACCESS_ROLE','BREAKGLASS_POL');
```