

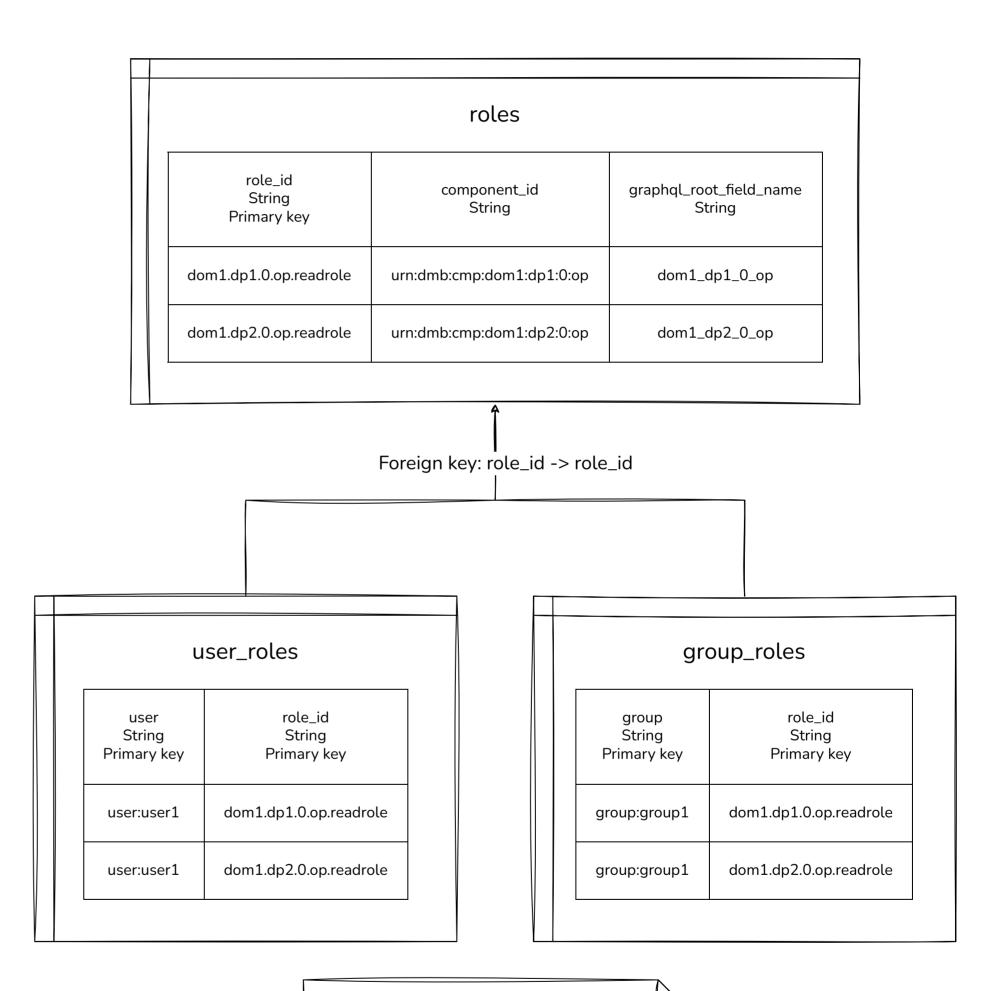
The roles table contains the role id and other information on each role, namely the corresponding component id and GraphQL root field; this is used in sanity checks to ensure multiple components are not using the same role, as well as for retrieving the correct role.

The user_roles & group_roles types map user & groups to sets of roles. The roles for a user are the set union of the user's roles (ie assigned to the user) and group roles (ie assigned to any of the user's groups).

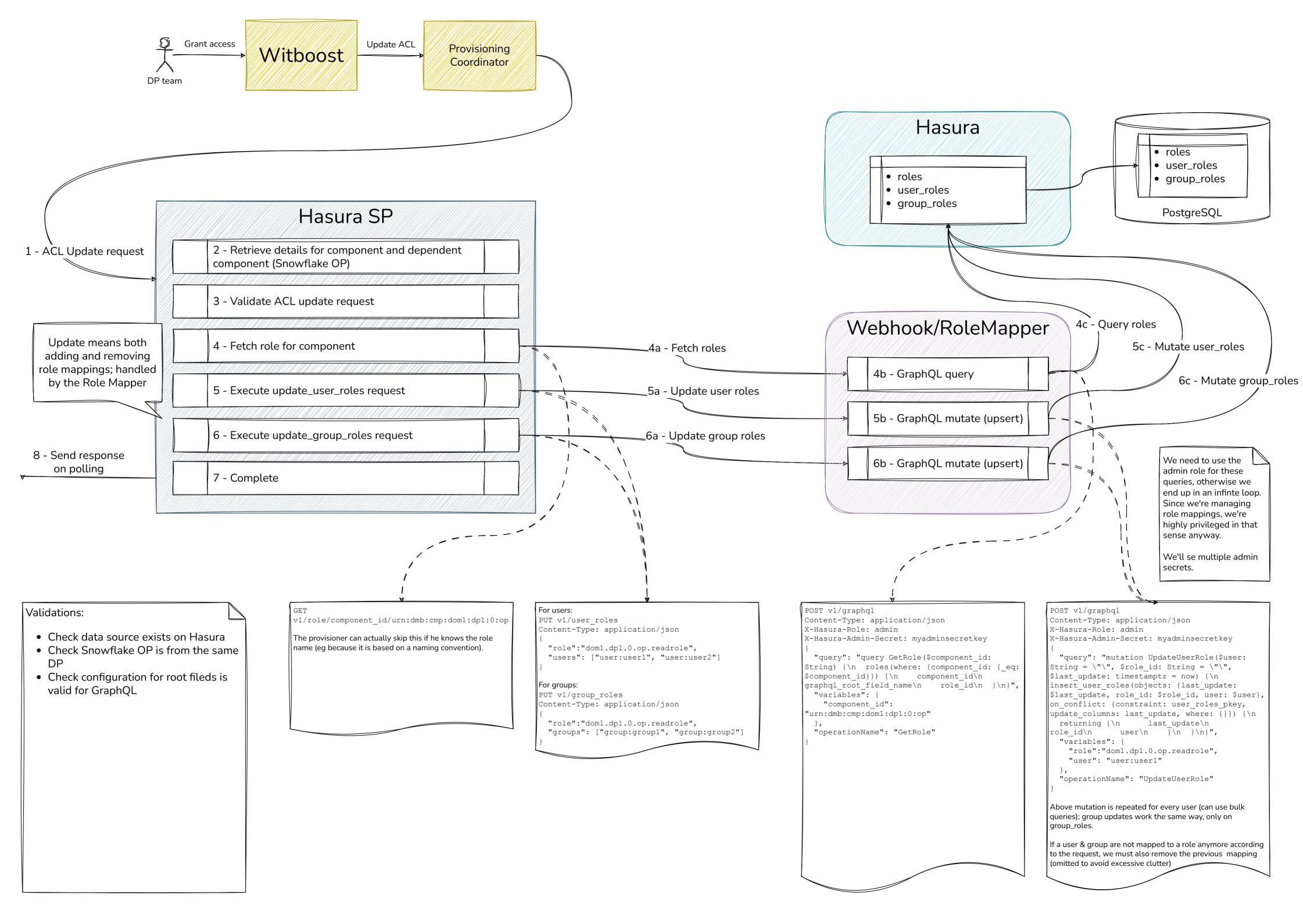
The user and group identifiers in these tables are in the format used by Witboost (ie, user:user1 & group:group1); the translation from the format used by the IdP (and thus used in the JWT) to this format has to be done by the Webhook.

Data is stored in tables in underlying PG database. Permission to read/write is needed only by the role mapping part of the microservice.

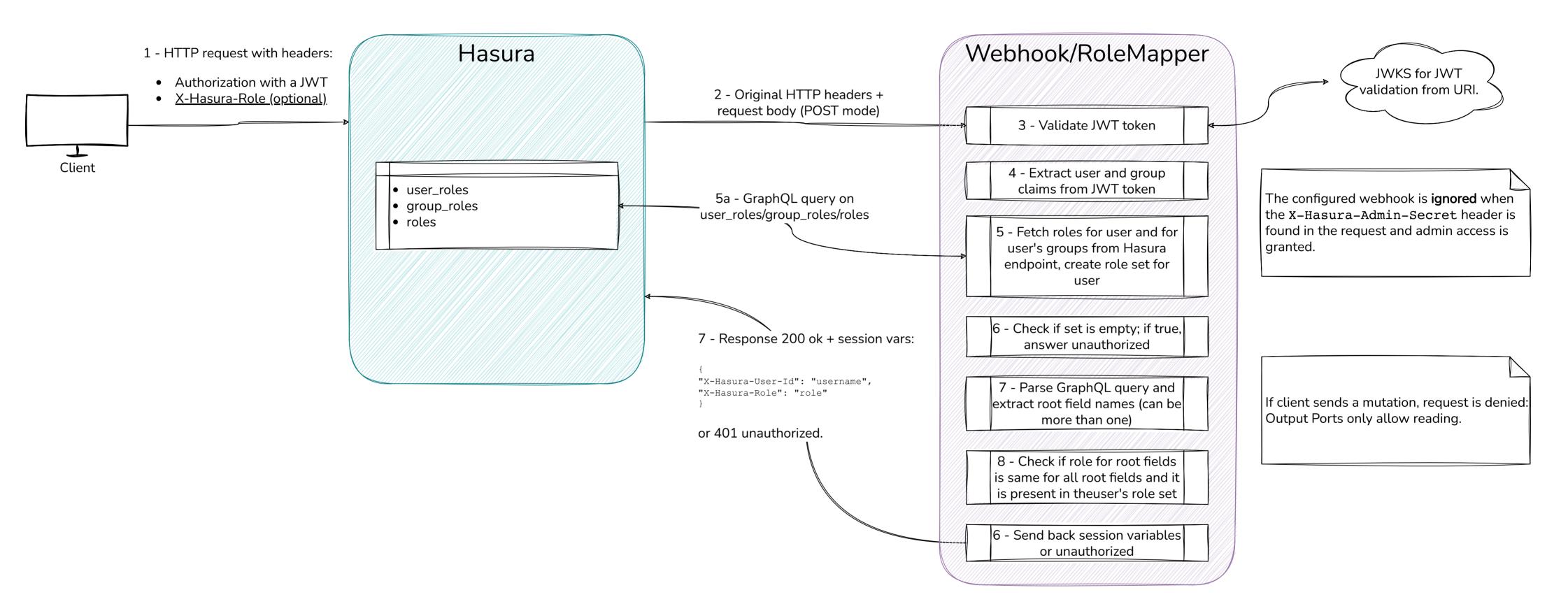
These tables are tracked in Hasura and queried/manipulated via their GraphQL endpoints.



Mapping queries (which query by user/group) are far more frequent than updates (which update by role id), hence the decision to have the user/group as the first PK column, as it makes lookups slighly faster.



We use webhook mode as JWT mode requires customization on the IdP side to add Hasura's custom claims, and with some IdP applying custom logic to generate these claims is hard to do; also it would be too technology specific.



References:

- https://hasura.io/docs/latest/auth/authentication/webhook/
- https://github.com/hasura/graphqlengine/tree/master/community/boilerplates/auth-webhooks

Out of scope for first release

Permissions discussed up to now are based on 1-1 mapping between Output Port and a role. This enables control of data access in an all-or-nothing fashion.

To enable more granular control, multiple roles can be used.

Provisioning (simplified) Deploy DP Deploy DP Provisioning Witboost Coordinator DP team 1 - Provisioning_ request for OP Hasura SP POST v1/metadata Content-Type: application/json X-Hasura-Role: admin X-Hasura-Admin-Secret: myadminsecretkey "type": "snowflake_create_select_permission", 5 - Execute create_role request *for every OP role* "args":{ "table":["VACCINE" 6 - Execute snowflake_create_select_permission "role": "dom1.dp1.0.op.readrole", "permission":{ request for every OP role "columns":[<column rules for role> "filter":{ <filter rules for role> "set":[Other steps unchanged "allow_aggregations":false "source": "snowflake"

ACL update (simplified)

