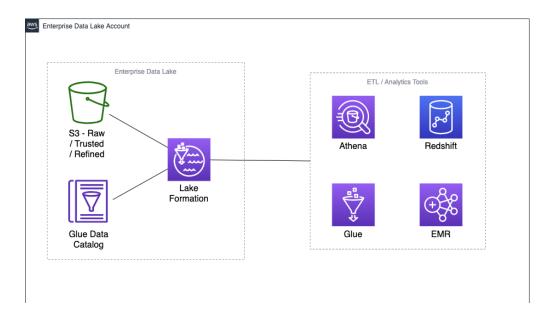
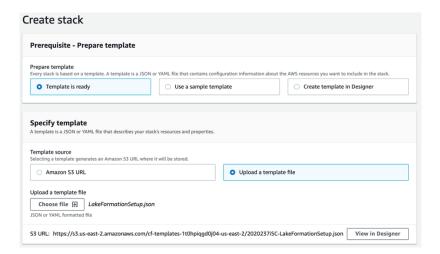
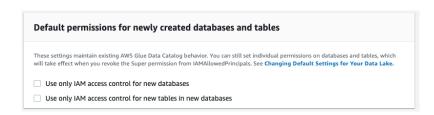
Configuring Lake Formation in a Single Account



- 1. Go to the data lake account;
- 2. Create an admin IAM user;
- 3. Log in as admin;
- 4. Run CloudFormation (LakeFormationSetup.json);



5. Wait until the CloudFormation finishes, then go to Lake Formation, Settings, clear both check boxes and choose Save:



- 6. Go to CloudFormation;
- 7. Select your stack, see outputs, click on URL1:



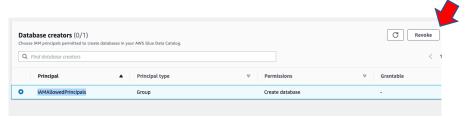
8. Now click "switch role" to assume role Datalake Admin:



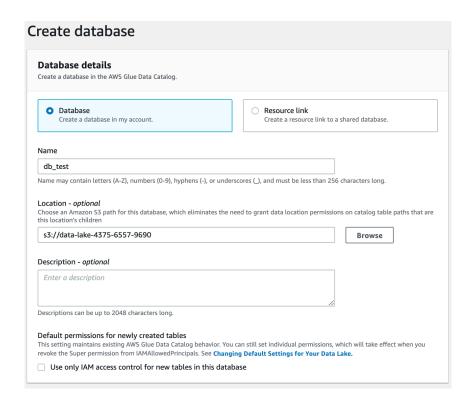
9. Be sure you are logged as DataLake_Admin (see top console, left side of the selected AWS region):



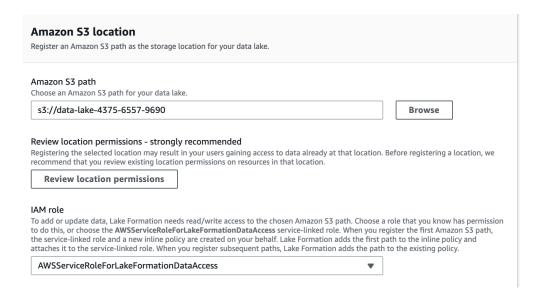
10. Go to Lake Formation, click "Admins and database creators", revoke the access to the IAMAllowedPrincipals group:



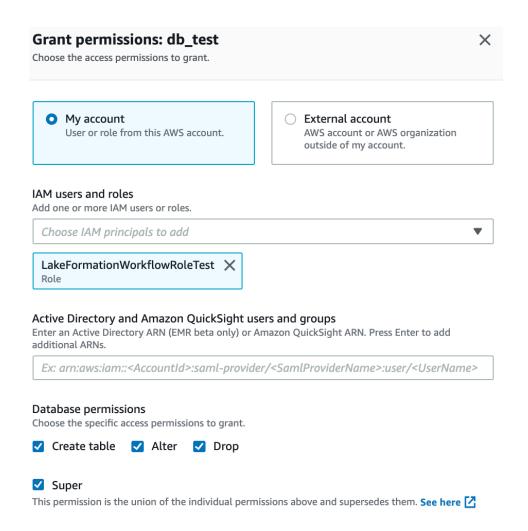
- 11. Create a S3 bucket for your data lake (for testing purposes), and upload some csv files. Also create an additional S3 bucket to store the results of your athena queries.;
- 12. Go to Lake Formation and create a database called test_db, informing the s3 location:



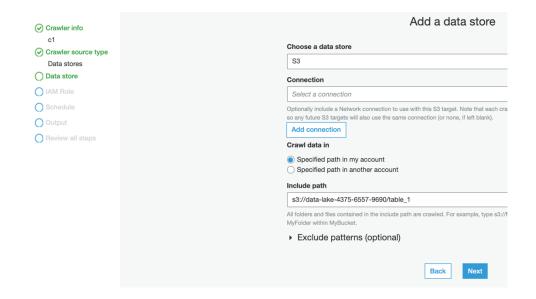
13. Go to Data Lake Locations and register your data lake S3 bucket:



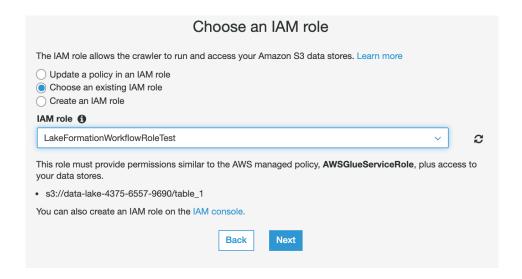
14. Go to Data permissions, and grant access to test_db to the LakeFormationWorkflowRoleTest:



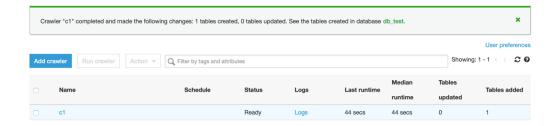
15. Go to Glue and create a crawler to create some tables in your data lake:



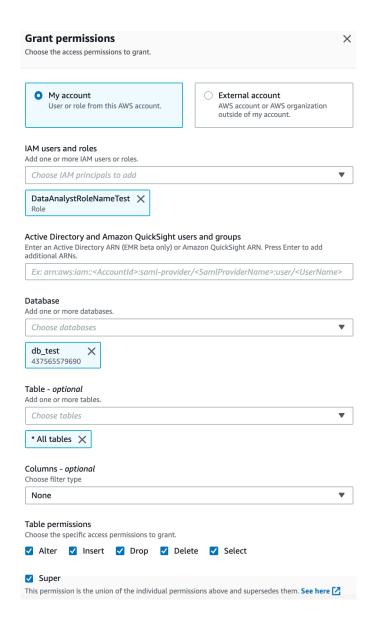
16. Choose the role LakeFormationWorkflowRoleTest:



17. Run your crawler. It should create at least one table in order to allow us to do some tests:



18. Now that you have created your first table under Lake Formation security rules, it is time to grant access to the Data Analyst Role to all tables in the db_test database:



19. Now go to CloudFormation, click in the URL2 link to assume the DataAnalyst role:



20. Go to Athena, setup a query result location in S3, and query your test table. Use your admin account to give access to a S3 bucket to the Data Analyst role, so you can write the results to a S3 bucket:



Use Ctrl + Enter to run query, Ctrl + Space to autocomplete

Results

| • | nome ▼ | telefone ▼ |
|---|--------|------------|
| 1 | john | 44778877 |
| 2 | joe | 99007788 |
| 3 | david | 99887766 |