Lake House Reference Architecture

Demo Outline

# Introduction

## Team introductions

*Done by Nilanjan*

# Current State Architecture

Diagram

Description automatically generated

# Ask Questions

* Why was the use of a Step Function included in the design, as opposed to a Glue Workflow?
* What are the reasons for Redshift in the Lake House account
* Lake House vs. Lake Formation general questions

# Use Case

## Diagram showing functional purpose

Diagram, timeline

Description automatically generated

### Explanation of Lake House Business Benefits

On top of the well-understood Lake Formation data lake features, a Lake House enhances that that model.

* Reduction of operational overhead
  + Eliminates need to move data into & out of Warehouse
* Highly organized and manageable data access governance mechanisms
  + Domain-Data Management
* Source-of-Truth data access & data masking across accounts

#### Dataset

We are utilizing a small data with a small number of columns to clearly illustrate functionality.

Example record:

{ "Name": "Test1 User", "Contact": 12345678, "Phone": "5555555555", "SS": "1234567890" }

# Demo

## Data Set(s)

Show data set being demoed in the workflow

## Workflows

*(Remember to switch back and forth between console and arch diagram, as what we are discussing is a complex architecture.)*

* *Arch – Refresher of producer in the arch*
* *Console - Show workflow of producer (need to update name in CF)*
* *Arch – Refresher of ingestions workflow in the arch*
* *Console – Show workflow of ingestion process*

## Show LF tagging permissions for different Users

## Show Data Mesh Capabilities of Domain Data Admin Delegating Access Rights

Logout & Login as campaign manager

## Delegate limited permissions & visibility to developer user

Logout & Login as Developer User

Show changed result set as developer user

# Next Steps