System Context Diagram of UDH - Provider

Core System
[Software System]

Polling/CDC for Provider in Core Oracle tables

Get updated Provider Records

UDH
[Software System]

Copies data from Oracle to Landing zone

Published updated Provider Events

Kafka Topic
[Software System]

Queue Provider Events

Save updated Provider records

Database - UDH
[Software System]
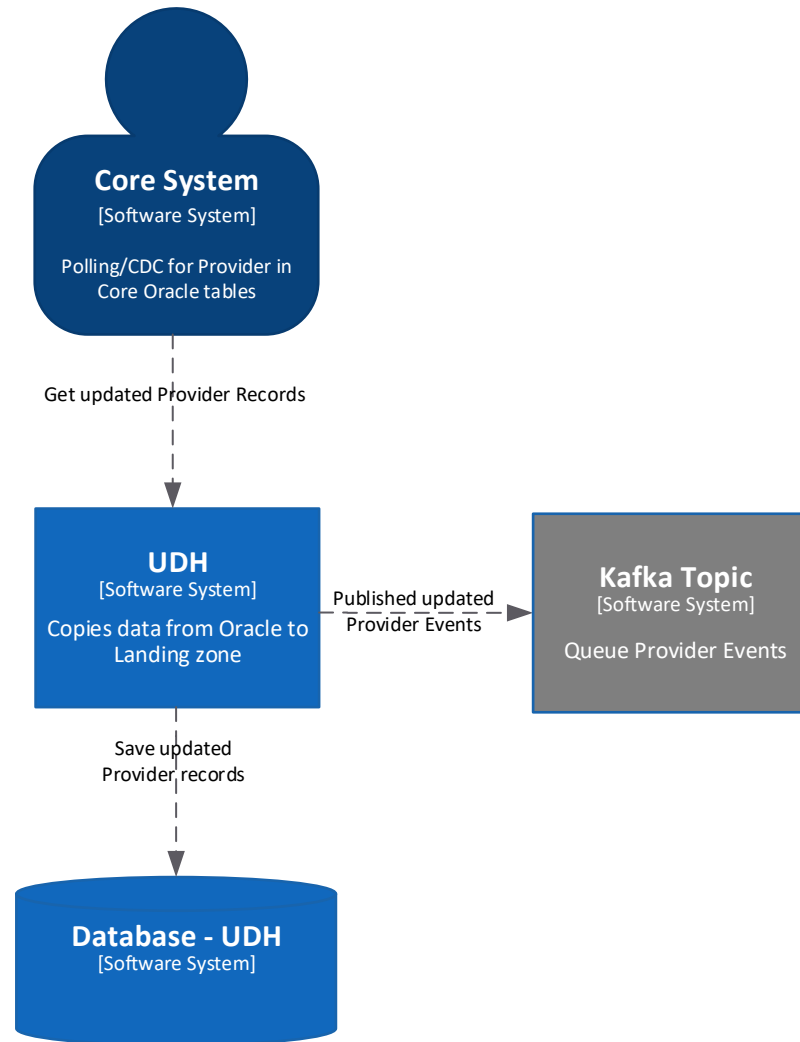
Container Diagram of UDH - Provider

Core System

[Software System]

Polling/CDC for Provider in Core Oracle tables

Get updated Provider Records

UDH

[Container - Cloudera]

Process updated Provider from Core to UDH

Published updated Provider Events

Kafka Topic

[Container - Kafka]

Queue Provider Events

Save updated Provider records

Database - UDH

[Container - Cloudera]
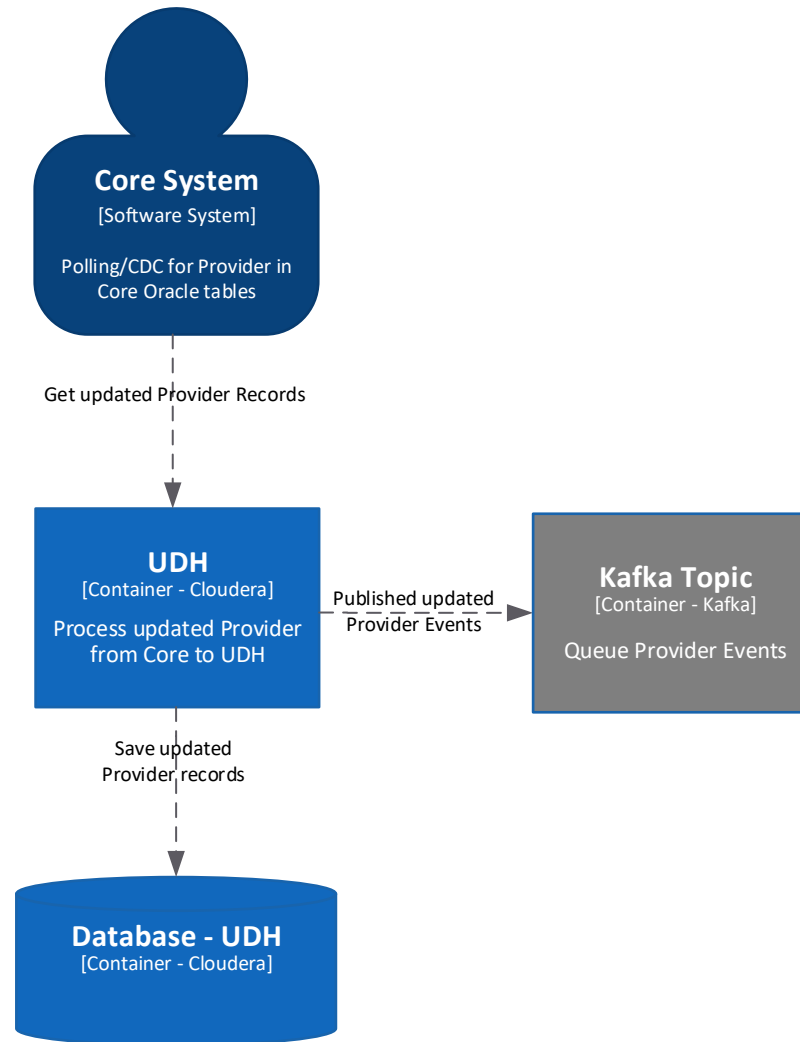
Component Diagram of UDH - Provider

UDH
[Container - Cloudera]

Process Provider from Core to UDH

AirFlow/DAG
[Shellscript/Python]

Extract data from Core to LZ

Processing to GDF

Prod to Kafka

LZ Processor
[Scala/Spark/Sqoop]

LZ to Processing

Processing Layer Processor
[Scala/Spark]

GDF Processor
[Scala/Spark]

GDF to Prod

Prod Processor
[Scala/Spark]

Prod to Kafka Processor
[Scala/Spark]

Provider Event Consumer
[Software System]

Consume Provider Event

Config Metadata
[Scala/Spark]

Apply Config

Event Publisher
[Kafka/Json]

Entity Validation
[Scala/Spark]

Validate CDC record

Config Metadata
[Scala/Spark]

Apply Config

Publish Prov Events
[Kafka, Json]

Consume Prov Events
[Kafka, Json]

Entity Changed
[Scala/Spark]

Is GDF Entity changed

Merge CDC data with Prod

Provider Merge
[Scala/Spark]

UDH-Provider Topic
[Container – Kafka]

GDF ID
[Scala/Spark]

Find GDF ID

Create Entity with all GDF

Transform/ Translate
[Scala/Spark]

Read/Write
[Data frame]

Read
[Sqoop/Jdbc]

Database
LZ/Proc/Rej/GDF/Prod
[Container – Cloudera]

Database
[Container – Oracle]