

Feb 8th, 2022

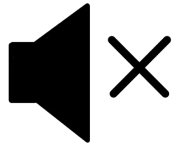
Cloud Data Governance & Catalog – Azure Case Study

Srinivasa Gopal – Principal Technologist, Customer Success

Sachin Jain – Principal Technologist, Customer Success

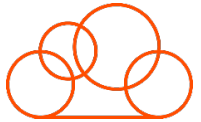


Housekeeping Tips



- Today's Webinar is scheduled for **1 hour**
- The session will include a webcast and then your questions will be answered live at the end of the presentation
- All dial-in participants will be muted to enable the speakers to present without interruption
- Questions can be submitted to "All Panelists" via the **Q&A option** and we will respond at the end of the presentation
- The webinar is **being recorded** and will be available on our **INFASupport YouTube channel** and **Success Portal** - where you can download the **slide deck** for the presentation. The link to the recording will be emailed as well.
- Please take time to complete the **post-webinar survey** and provide your feedback and suggestions for upcoming topics.

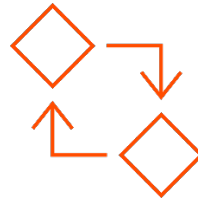
Feature Rich Success Portal



Bootstrap trial and
POC Customers



Enriched Customer
Onboarding
experience



Product Learning
Paths and Weekly
Expert Sessions



Informatica
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Tailored training and
content
recommendations

More Information



Success Portal

<https://success.informatica.com>



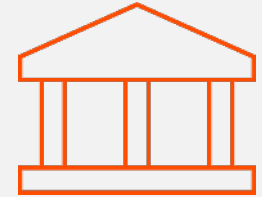
Communities & Support

<https://network.informatica.com>



Documentation

<https://docs.informatica.com>



University

<https://www.informatica.com/in/services-and-training/informatica-university.html>

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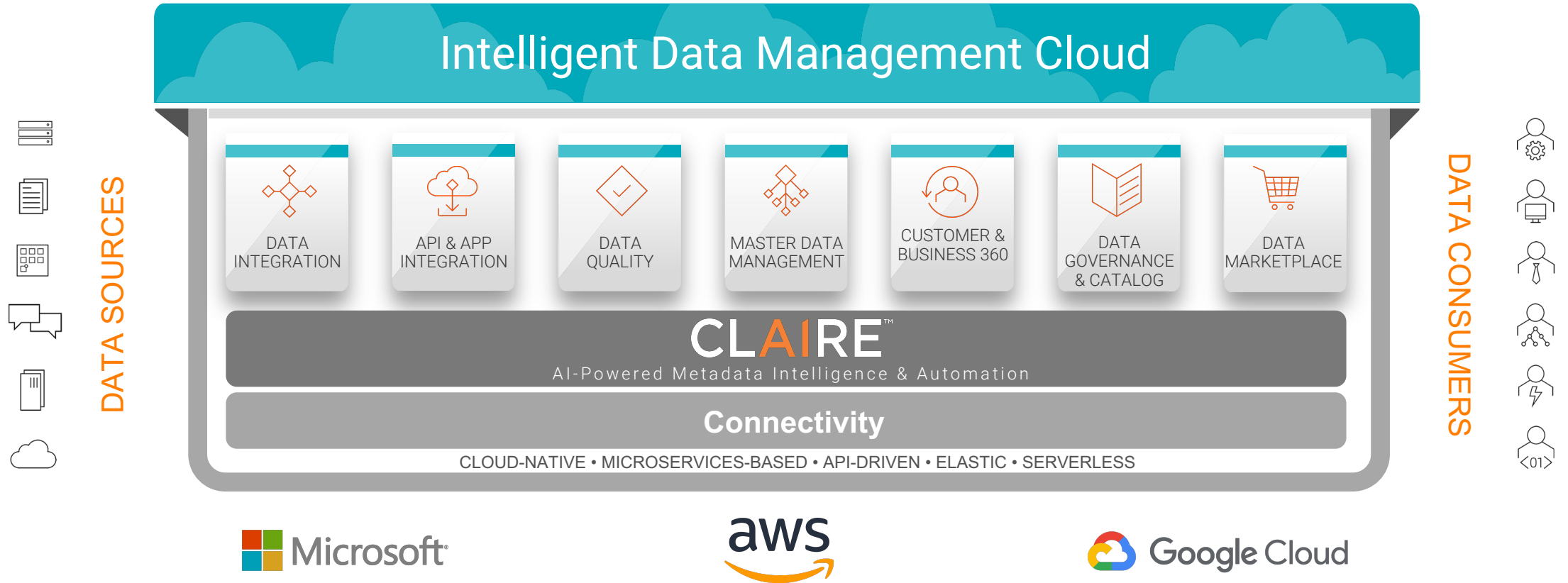
Demo

6

Q&A

Introduction to CDGC

Intelligent Data Management Cloud



Cloud Metadata Platform



Cloud native open metadata platform that allows pervasive use of all enterprise metadata across Informatica and non-Informatica applications. Our goal is to extract and collect all types of metadata, making you more productive by providing in-context metadata intelligence.

Metadata Inventory and Index

Metadata Knowledge Graph with objects and relationships – search

Cloud Native

Multi-tenant, Elastic, Security, Availability, Serverless, Live Telemetry

Scanner Framework

Agent and Cloud based metadata extraction

Scanners

Metadata Extraction from Cloud and On-Premise Data/Metadata Sources

Metamodel and Model Ext.

Metamodel store which allows customer specific models

Security

Metadata Security and Permissions across CMP Applications

Metadata Admin

Administration for Data Resources across CMP Applications

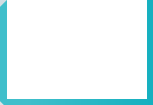
Ingestion Service

Scalable multi-tenant ingestion

Workflow and Notifications

Supports end user workflows and notifications

Cloud Data Governance and Catalog



Single solution for data intelligence



Automated to save time on manual tasks



Start immediately with a cloud-native solution



Put accurate information at your team's fingertips

Cloud Data Governance and Catalog

Core Solution Tenets



SERVERLESS

Serverless compute to work at any scale—there is no infrastructure to deploy or manage



MULTI-CLOUD

Works across all cloud ecosystems and on-premises data sources



INTEGRATED

Deep Integration with data management and data consumption tools



AI

Uses state of the art machine learning and intelligence to ensure end user productivity

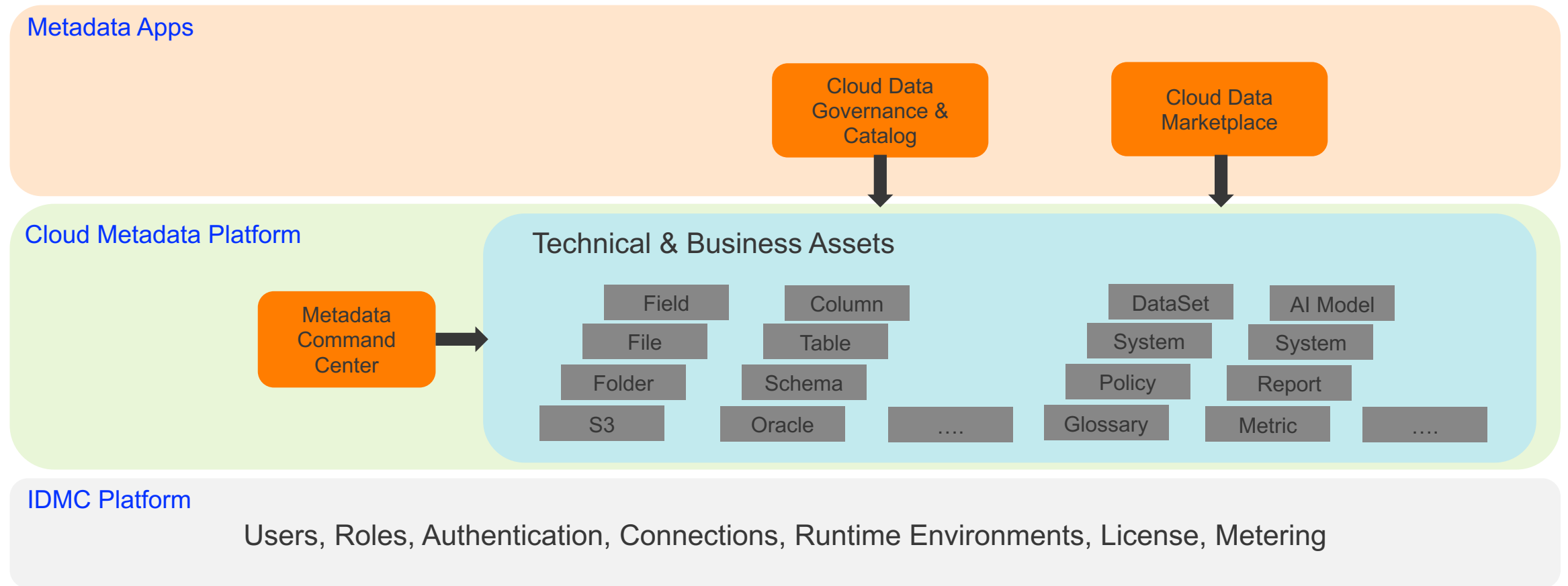


OPEN & EXTENSIBLE

API-based access to metadata repository and functions

Application Stack

Metadata Platform & App Architecture



Two Applications in CDGC

Data Governance and Catalog

- Focused on end User consumption
- All users Contributors, Collaborators and Consumers will be on this App
- Create/Update/Delete/View all activities managed from here

Metadata Command Center

- Focused on Admin Activities
- All Admin activities and definition of Data Classifications and adding of New Resources will happen here
- One Admin App for multiple products

Data Governance | Data Catalog

Collaboration between the Business and Technology

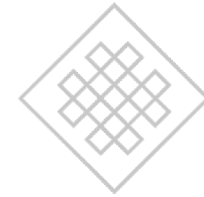


BUSINESS

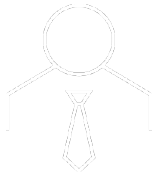
Looking to define, understand and trust data to support regulatory compliance, analytics, risk management, customer experience, etc.



TECHNOLOGY

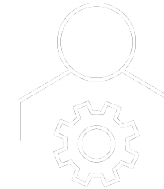


Managing the growing complexity of data in multiple systems & applications. Creating a data digitalized platform to support business consume-ability



Business Personas

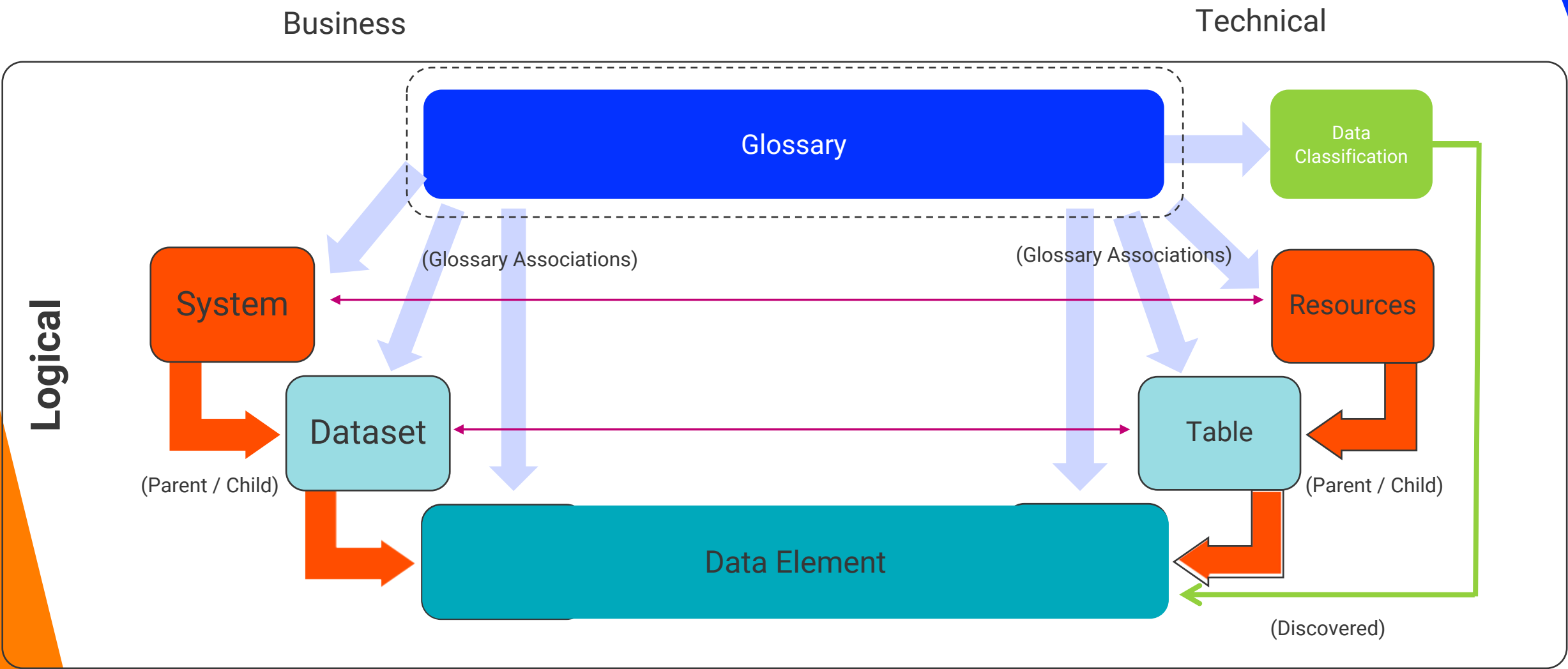
Data Analyst
Data Scientist*
Privacy Officer
Business Stewards
Governance Managers



IT Personas

Data Architects
Data Engineers
System Owners
Database Admins
Technical Stewards

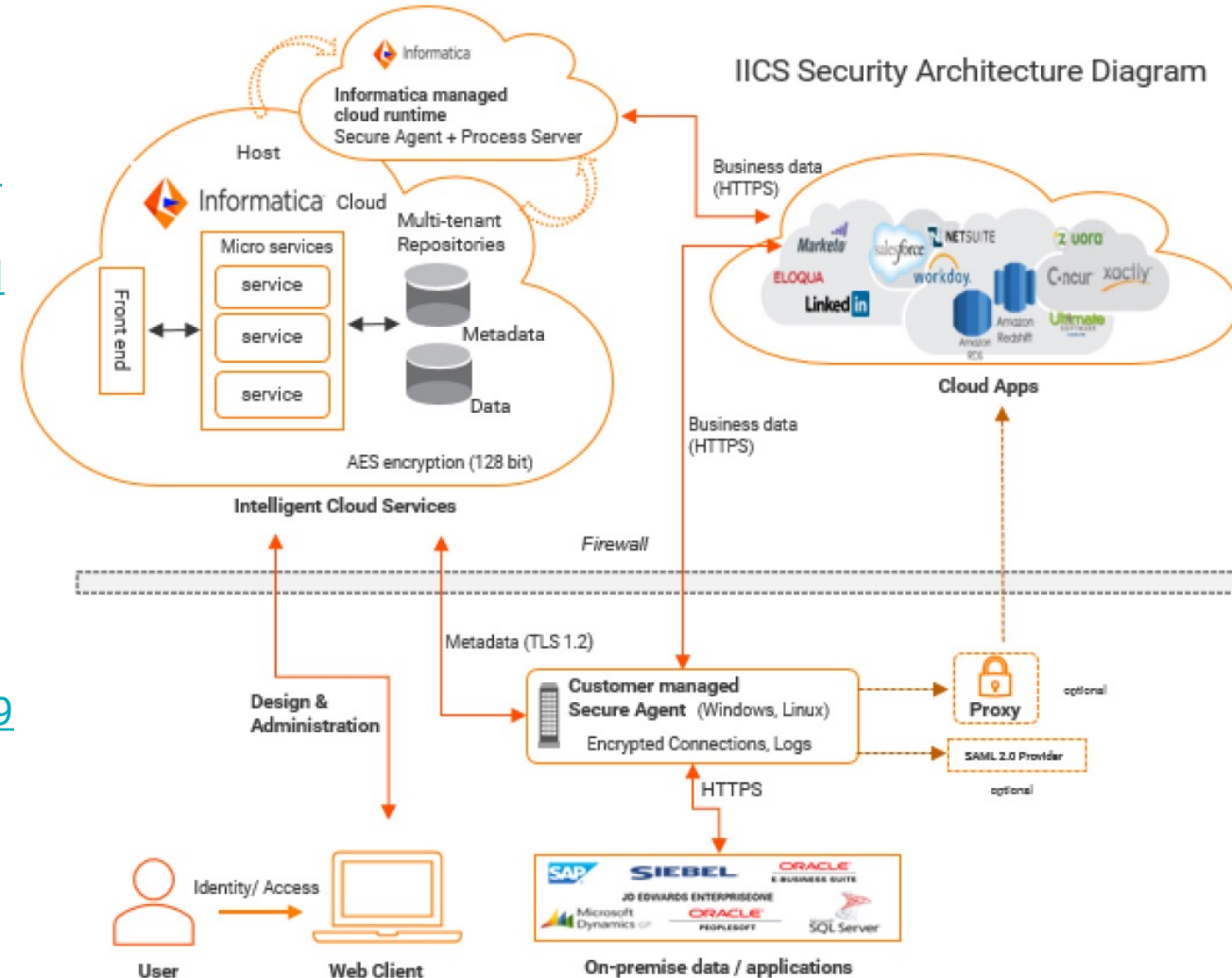
DGC Model



Security and Secure Agent

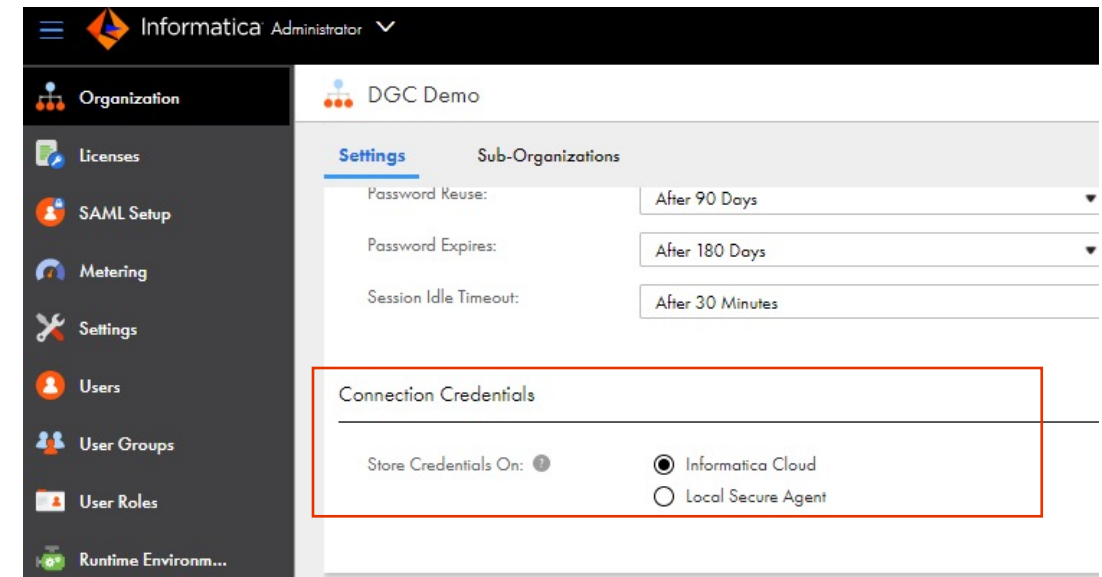
Security

- IICS Services including CDGC are SOC2 compliant
 - <https://www.informatica.com/in/trust-center.html>
 - <https://www.informatica.com/in/trust-center/certifications-assessments-standards.html>
- IICS Security Architecture Overview
 - <https://network.informatica.com/docs/DOC-18220>
- IICS Services IP Addresses to whitelist on customer's Firewall for Secure Agent to communicate
 - All IICS Platform Services:
https://knowledge.informatica.com/s/article/52492?language=en_US



Common Security Questions

- Q1: Where is metadata and data profiles stored?
- A1: INFA Cloud, each Tenant data is encrypted with unique Tenant specific key
- Q2: Where are Connection credentials stored?
- A2: INFA Cloud or Secure Agent, customer's choice
- Q3: Is data in transit and at rest encrypted?
- A3: Yes, all communication from agent to IICS is over SSL
- Q4: Is there any inbound communication between IICS and Secure Agent?
- A4: No, it is only outbound, Secure Agent communicates to IICS always



Runtime Deployment Location

Choose the right Runtime Environment location

On-premises Secure Agent

- Catalog Source is on-premises
- Customer is already using Secure Agent
- Large Data Sources or number of data sources
 - Co-location of metadata extraction or profiling compute with Data Sources

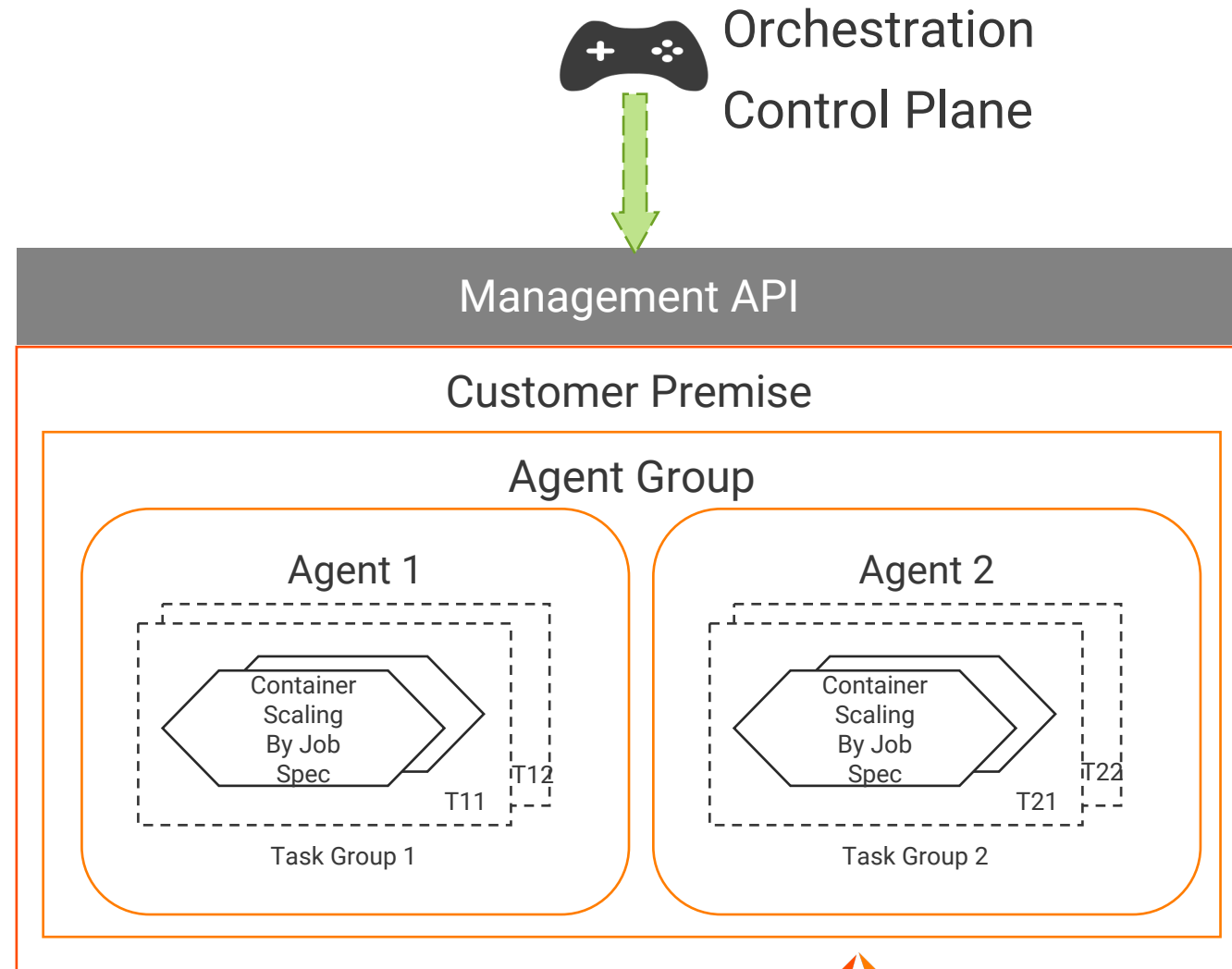
Serverless

- Catalog Sources are in the cloud
- Customer is okay providing a public end-point for accessing the data source
- Ideal for AWS ecosystem - DL, DW and DBs (because CDGC is AWS native)

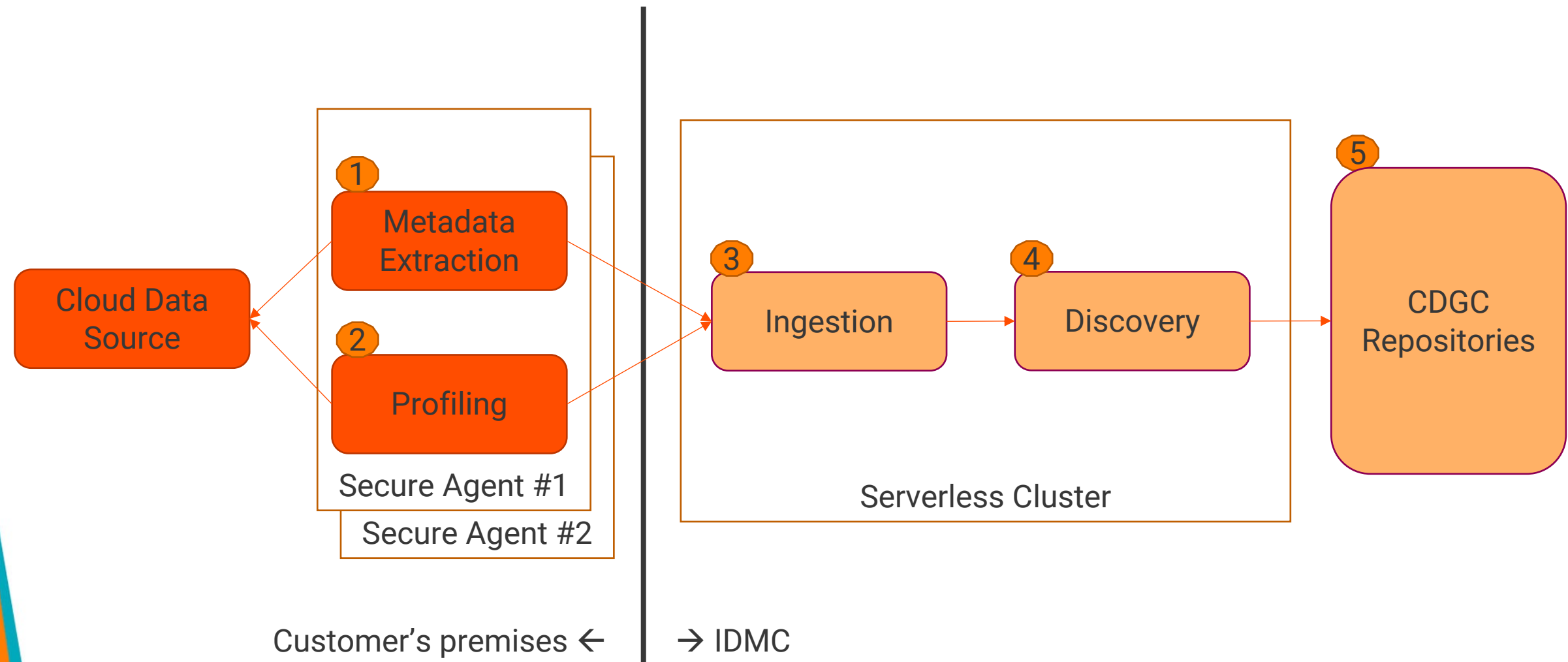
Secure agent for metadata extraction and discovery

Easy deployment with limited requirements

- Recommended Prerequisites
 - 16 CPU cores
 - 64 GB RAM
 - 200 GB HDD
- Easy to deploy
 - Download and install the secure agent
 - Register agent using generated token
- Scale with IICS agent grouping capabilities
 - 2 or more SA for sources more than 100k assets
- All agents can execute all the capabilities
 - Metadata extraction
 - Profiling
- Set the MAXDTMProcesses on Data Integration Service parameter to 20 to reduce the profiling execution time

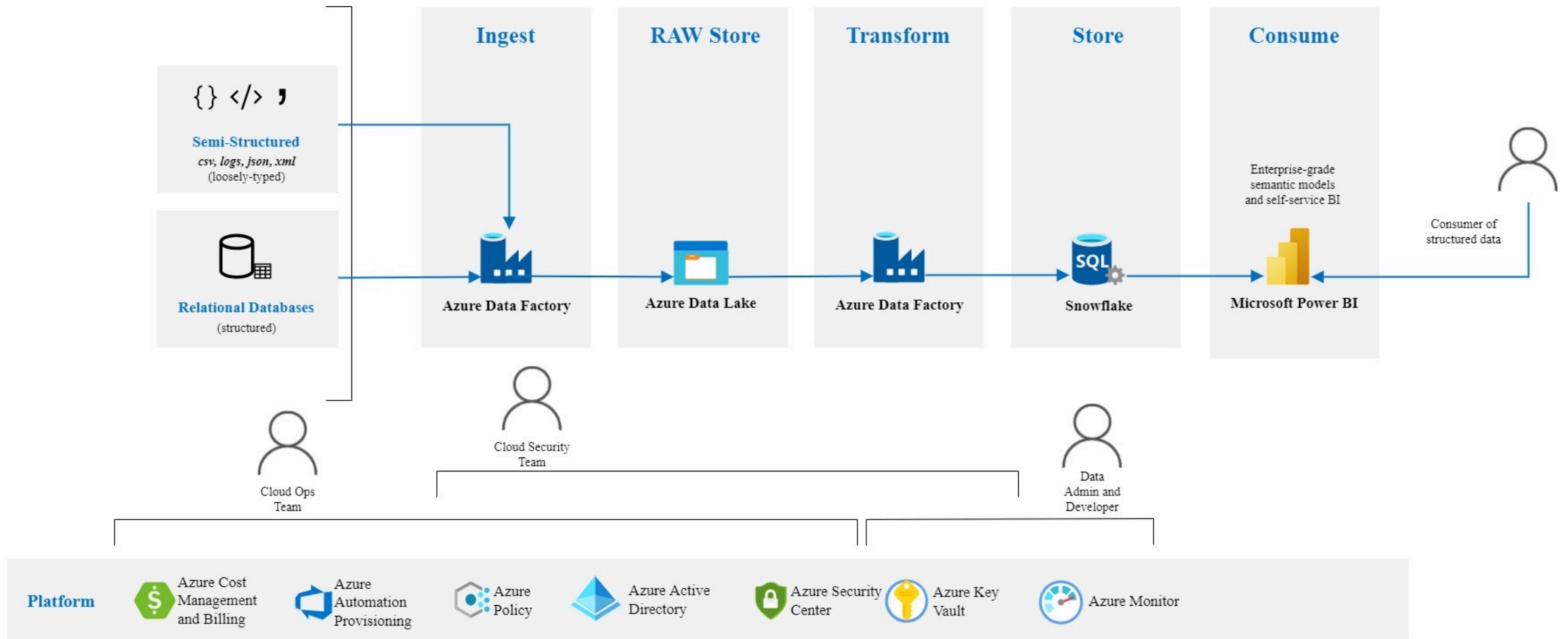


CDGC Secure Agent-based execution

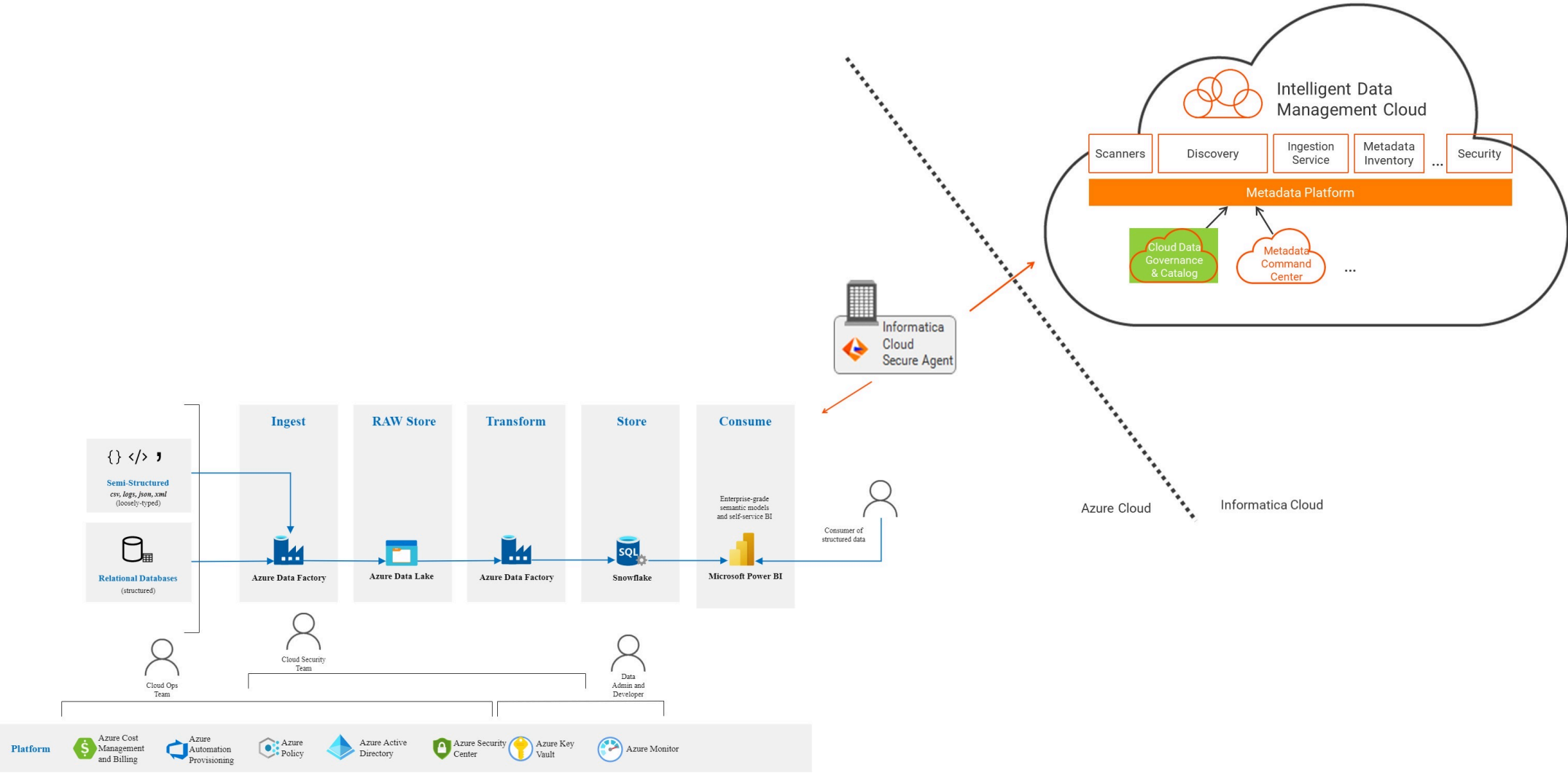


Azure Case Study

Azure Reference Architecture – Data Lake House



Azure Data Lake House with CDGC



Analytics Governance – Cloud Data Lake House

End User Consumption

- Data Analyst
 - View Goal Oriented Dashboards
 - Browse through Business and Technical Assets
 - Trust Data Assets with easily extracted and powerful lineage views
 - Trust Data through Integrated Data Quality

Analytics Governance – Cloud Data Lake House

Governance and Catalog Program

Governance Setup

- Data Steward
 - Set Governance Program
 - Set up Org Specific Attributes
 - Configure Workflows
 - Content Creation
 - Create Business Glossaries and other business assets manually going through governance workflows
 - Create Relationships
 - Bulk upload business terms for CDRs
 - Search, Browse and Dashboarding
 - Basic and Advanced Search
 - Browse Experience
 - Create and Edit Dashboard

Catalog Creation

- Catalog Administrator
 - Create Classifications*
 - Configure Metadata Scanners
 - Scan CDL/DW - Sql Server, ADLS, ADF, PBI and Synapse
 - Perform Connection Assignments
- Data Steward (Discovery)
 - Curates IGA recommendations*
 - Technical Assets without Business terms
 - Assets without Stakeholders
- Data Steward (Curation)
 - Create Systems/Datasets
 - DQ Linkage
 - Business Lineage
 - AI Model Governance

DEMO

CDGC – AZURE CASE STUDY



References

- Cloud Data Governance and Catalog: [Click Here](#)
- Introduction and Getting Started: [Click Here](#)
- Governance: [Bulk Upload Business Metadata](#)
- Metadata Command Center:
 - [Catalog Scanner Configuration](#)
 - [Creating Catalog Source](#)
 - [Configure Runtime Environments](#)