



Cloud Customer Architecture for Big Data & Analytics v2.0

<http://www.cloud-council.org/deliverables/cloud-customer-architecture-for-big-data-and-analytics.htm>

Webinar August 8, 2017

Speakers



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mirror committee ANSI (Editor SC38 SOA RA)



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The Cloud Standards Customer Council

THE Customer's Voice for Cloud Standards!



- Provide customer-led guidance to multiple cloud standards-defining bodies
- Establishing criteria for open standards based cloud computing

2017 Deliverables

- **BDA Ref. Architecture, V2**
- **Hybrid Cloud Considerations for BDA**
- Prac. Guide to Cloud Management Platforms
- Hybrid Integration Ref. Architecture
- API Management Ref. Architecture
- Security for Cloud Services Ref. Architecture
- Data Residency discussion paper
- Blockchain Ref. Architecture
- And more!

2016 Deliverables

- Prac Guide to Hybrid Cloud Computing
- Public Cloud Service Agreements, V2
- Cloud Security Standards, V2
- IoT Ref. Architecture
- e-Commerce Ref. Architecture
- Impact of Cloud Computing on Healthcare, V2
- Enterprise Social Collaboration Ref. Architecture

2015 Deliverables

- Web App Hosting Ref. Architecture
- Mobile Ref. Architecture
- Big Data & Analytics Ref. Architecture
- Security for Cloud Computing, V2
- Practical Guide to Cloud SLAs, V2
- Practical Guide to PaaS

2013/2014 Deliverables

- Convergence of Social, Mobile, Cloud
- Analysis of Public Cloud SLAs
- Cloud Security Standards
- Migrating Apps to Public Cloud Services
- Social Business in the Cloud
- Deploying Big Data in the Cloud
- Practical Guide to Cloud Computing, V2
- Migrating Apps: Performance Rqmnts
- Cloud Interoperability/Portability

675+ Organizations participating




<http://cloud-council.org>

Abstract & Agenda

This talk introduces v2 of *Cloud Customer Architecture for Big Data and Analytics*

- What are Cloud Solution Architectures?
- Latest trends in Big Data Analytics Cloud Architecture
- Big Data Analytics Cloud Architecture
- CSCC's Cloud Reference Architecture series is growing!
 - Cloud Customer Architecture for e-Commerce <http://bit.ly/2camhlz>
 - Cloud Customer Architecture for IoT <http://bit.ly/2cLcomc>
 - Cloud Customer Architecture for Big Data and Analytics <http://bit.ly/2crffR2>
 - Cloud Customer Architecture for Mobile <http://bit.ly/2cIYtdI>
 - Cloud Customer Architecture for Web Application Hosting <http://bit.ly/2cgTVK2>
 - Cloud Customer Architecture for Enterprise Social Collaboration <http://bit.ly/2jDiMPD>
 - Cloud Customer Architecture for Hybrid Integration <http://bit.ly/2IHILs0>
 - Cloud Customer Architecture for Securing Workloads on Cloud Services <http://bit.ly/2puolzX>
 - Cloud Customer Architecture for API Management <http://bit.ly/2n59GgY>
 - Cloud Customer Architecture for Blockchain <http://bit.ly/2vvAZAM>



Presenting
today!

Cloud Customer Reference Architectures

Cloud Customer Reference Architectures are...

- straightforward description of elements needed to implement particular application solutions using cloud infrastructure, cloud platforms, cloud software, and cloud services
- deployment neutral (public, private, hybrid) & implementable via IaaS, PaaS, SaaS
- general purpose reusable architectures as well as industry specific architectures
- vendor neutral & open

Important because they...

- enable cloud customers to understand unique features & advantages of using cloud computing
- bridge gap between understanding cloud customer needs and cloud provider offerings
- provide practical guidance on how common business applications can be realized from a cloud customer role perspective
- are stable anchors in a rapidly innovating cloud landscape
- save time, effort & money: *be more productive*

Useful when...

- those planning to build cloud based applications
- talking with cloud providers about their offerings
- understanding of the common elements and relationships in relevant solutions

Target audience

- those planning on building/purchasing cloud based applications
- developers, architects, managers

Consistent with ISO/IEC 17789 International Standard Cloud Computing Reference Architecture

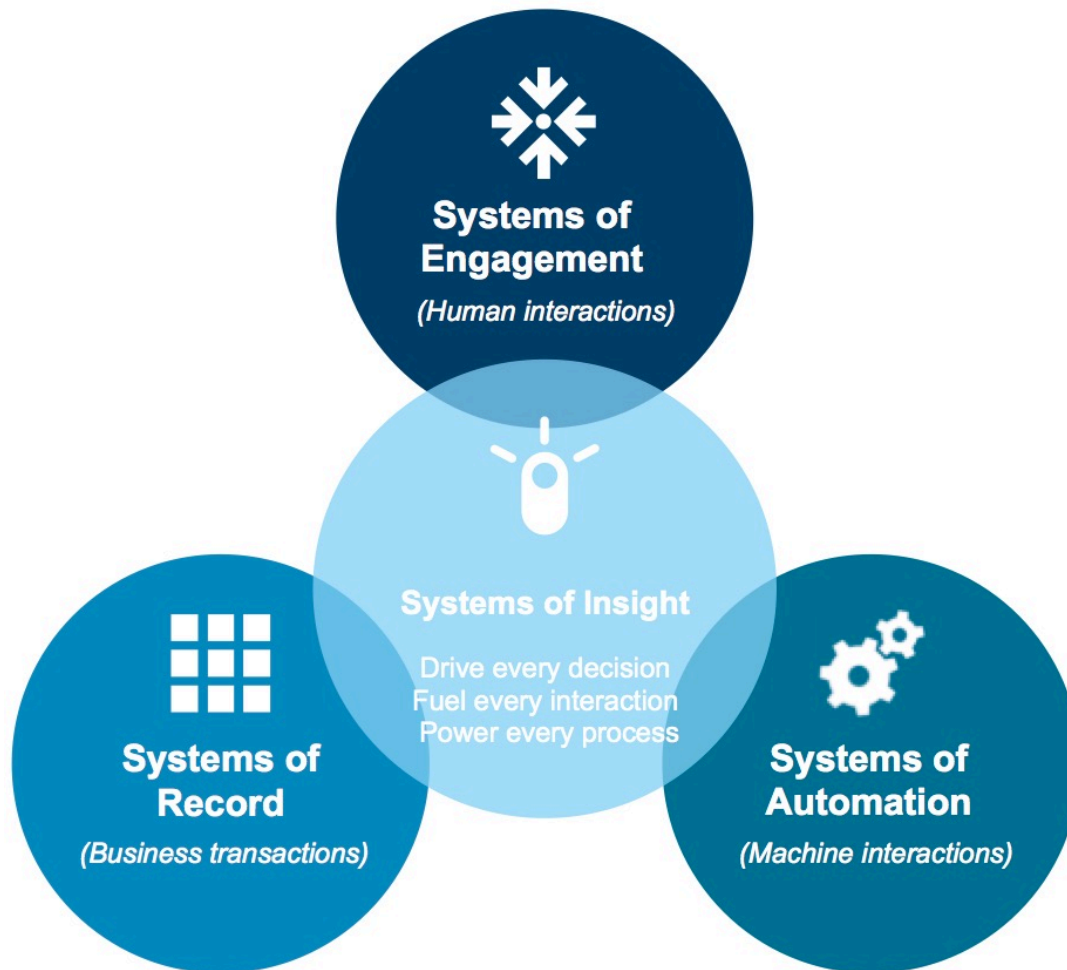
Definition of Analytics

Analytics is the discovery, interpretation, and communication of meaningful patterns in data.

Especially valuable in areas rich with recorded information, analytics relies on the simultaneous application of statistics, data science, and operations research to gain insights.

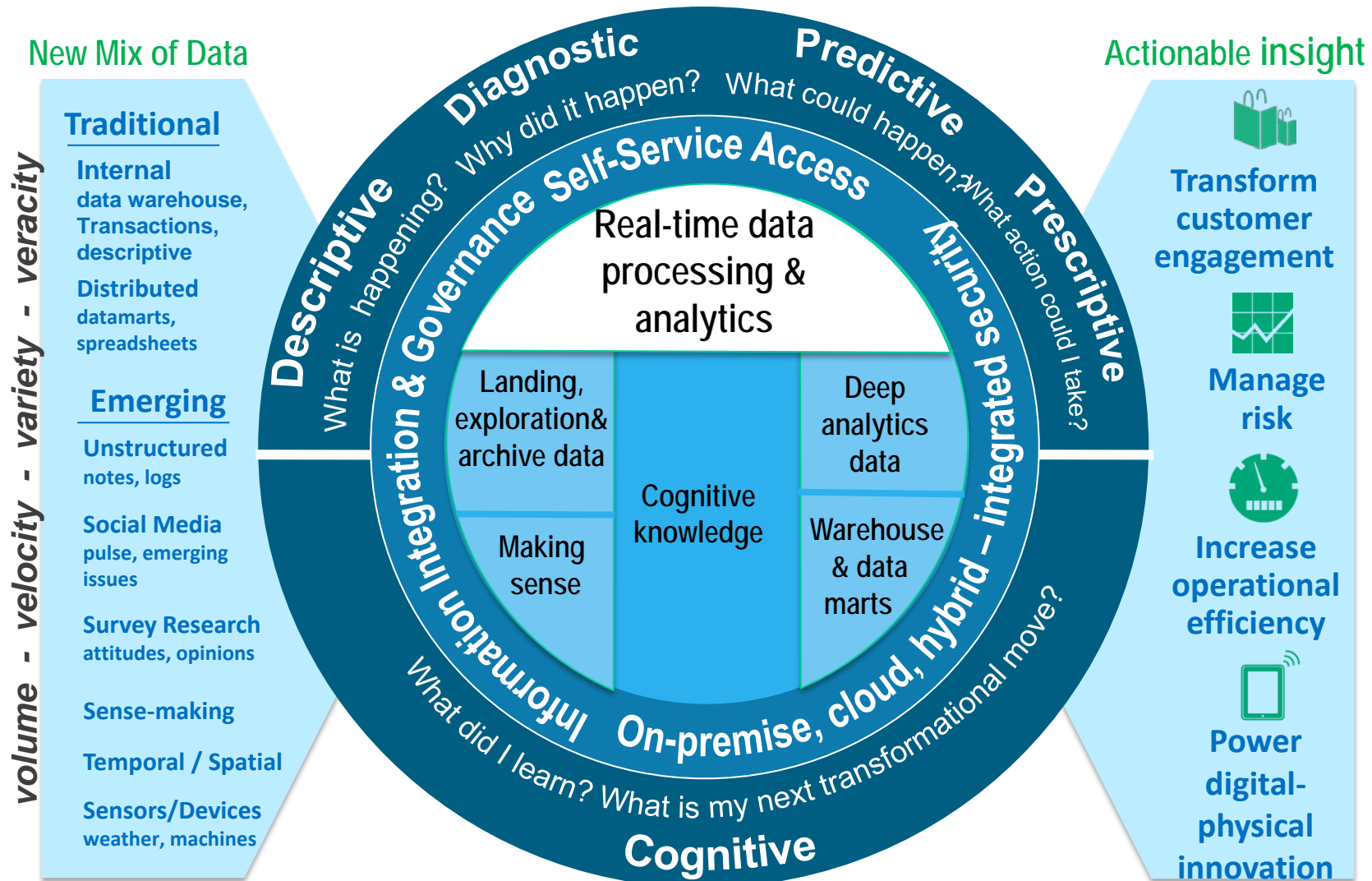
Four IT Domains – SOR, SOE, SOA and SOI

Systems of Insight infuses analytics everywhere, driving insight to outcome



System of Insight for Big Data and Analytics

Analytics environment from data to outcome



Embracing the Chaos: “Multi-Speed IT”



Traditional: IT personas

Requirements-Based
Top-Down Design
Integration and Reuse
Competence Centers
Better Decisions
Enterprise Focus

Defined and Repeatable

Agile: Self-Service personas

Opportunity-Oriented
Experimentation / Validation
Throwaway (“Fail Fast”) 1000/100/10
Hackathons
Business Innovation
Functional Focus

Iterative and Exploratory

Five Personas

Citizen Analyst



Data Engineer



Data Scientist

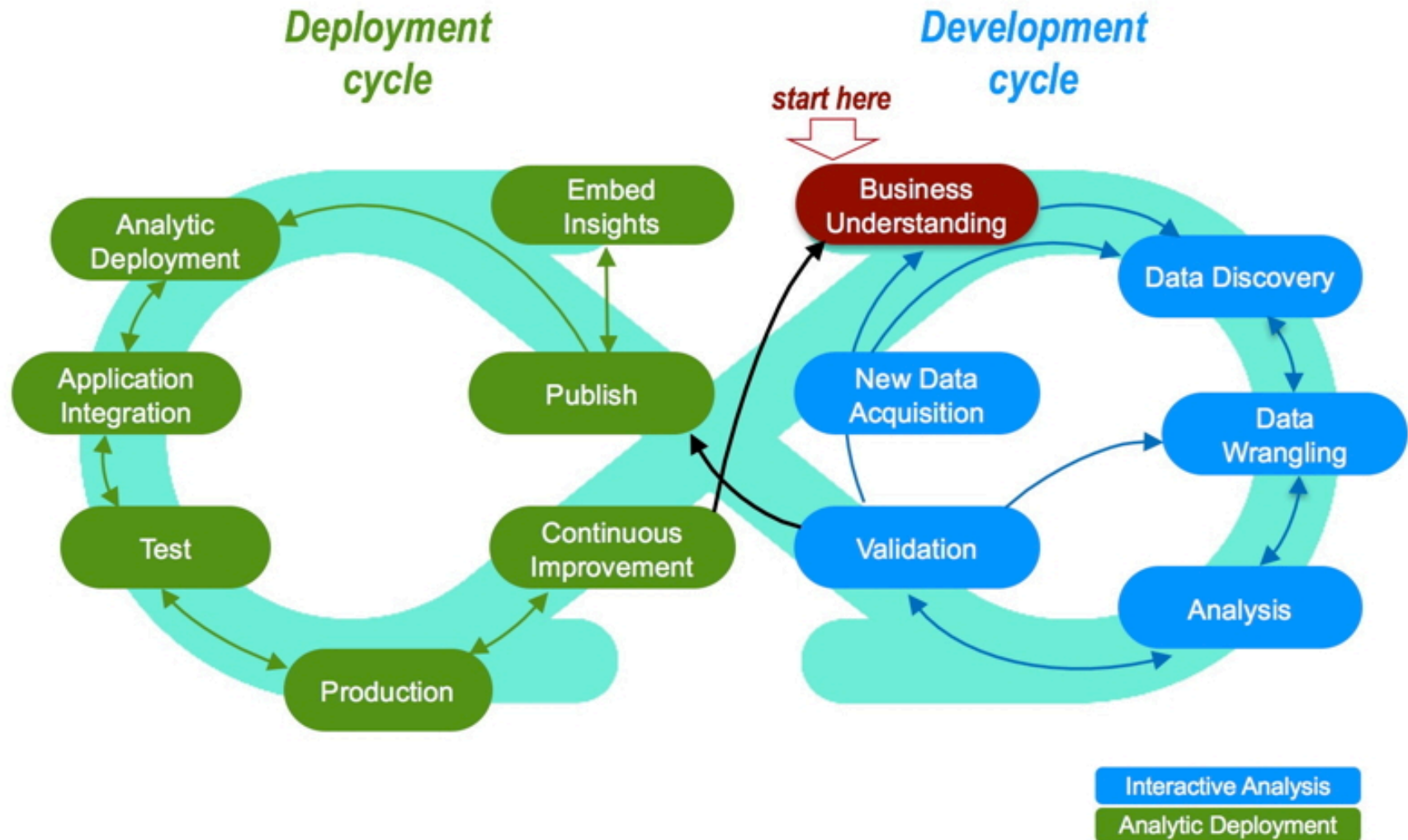


App Developer

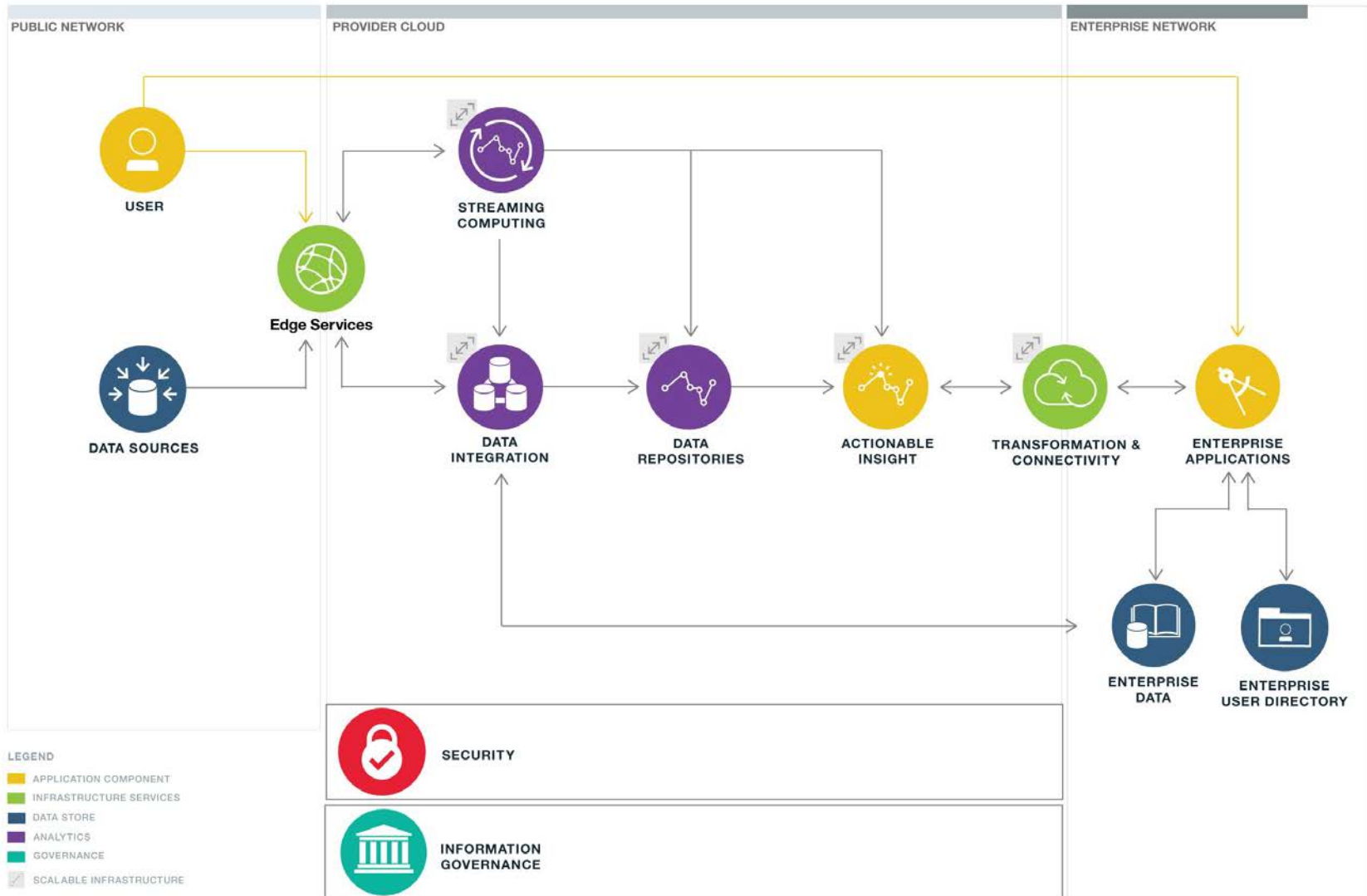


**Chief Data
Officer**

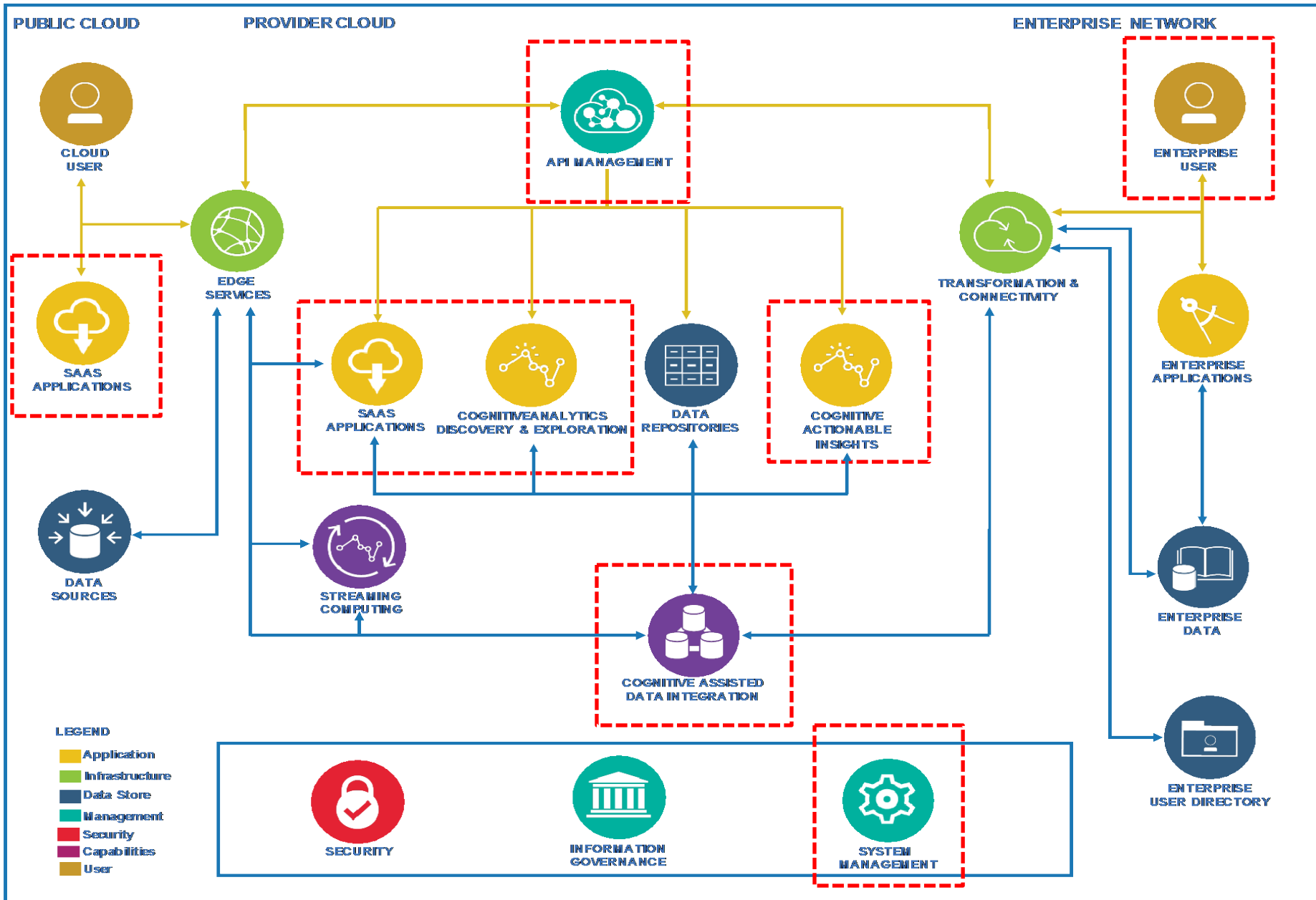
Analytics Lifecycles (Development + Deployment)



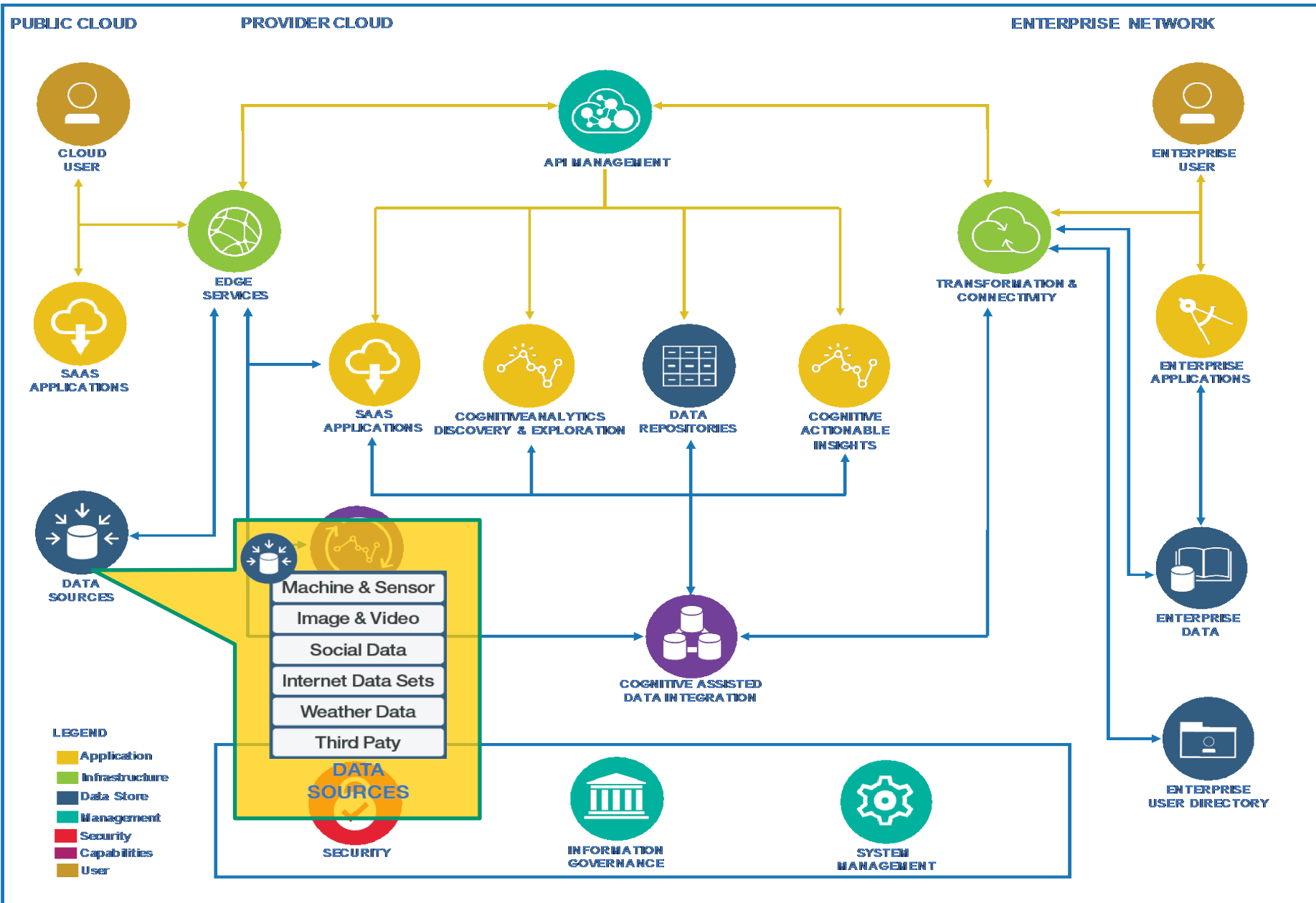
Cloud Customer Architecture for Big Data & Analytics v1



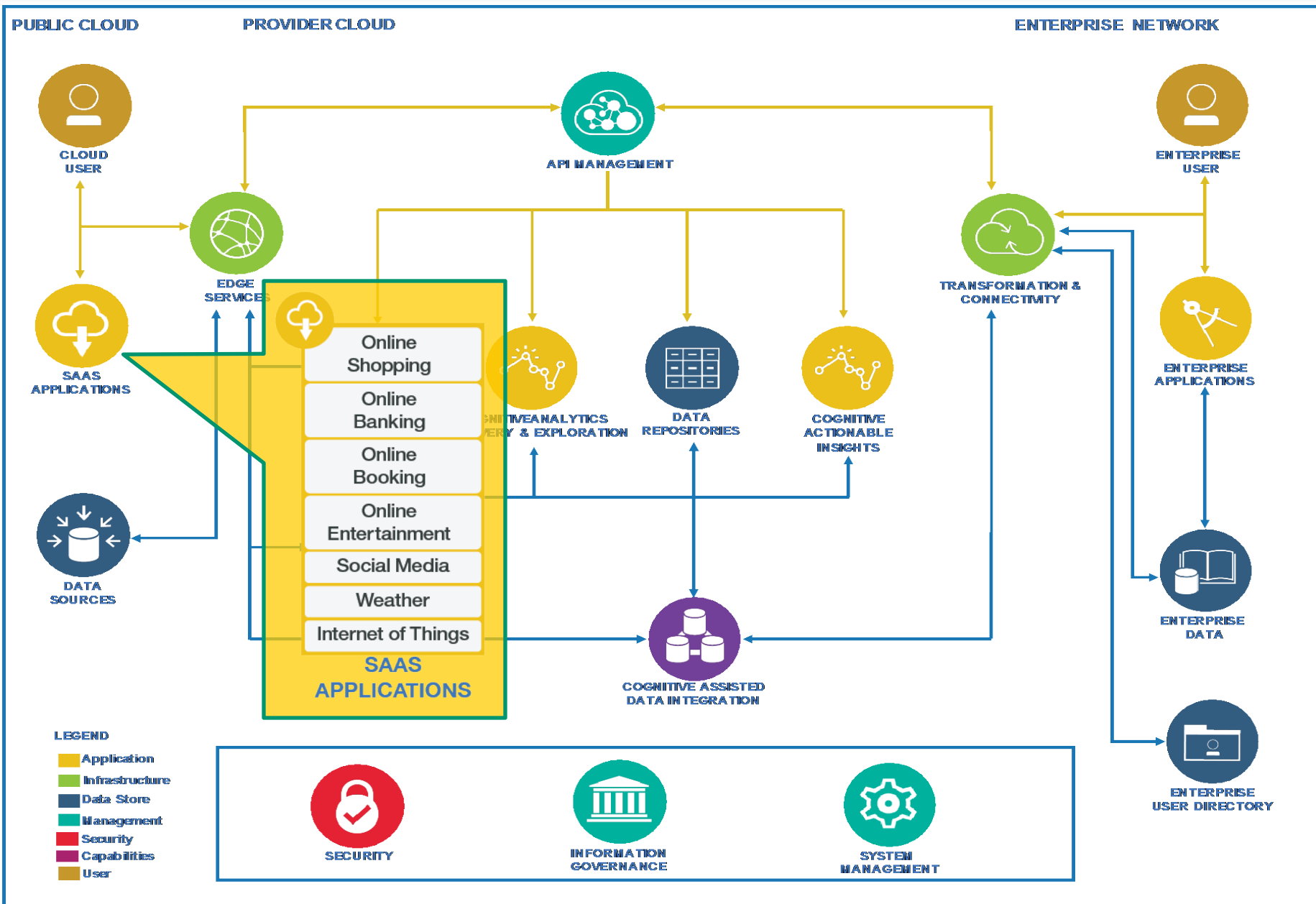
Cloud Customer Architecture for Big Data & Analytics v2



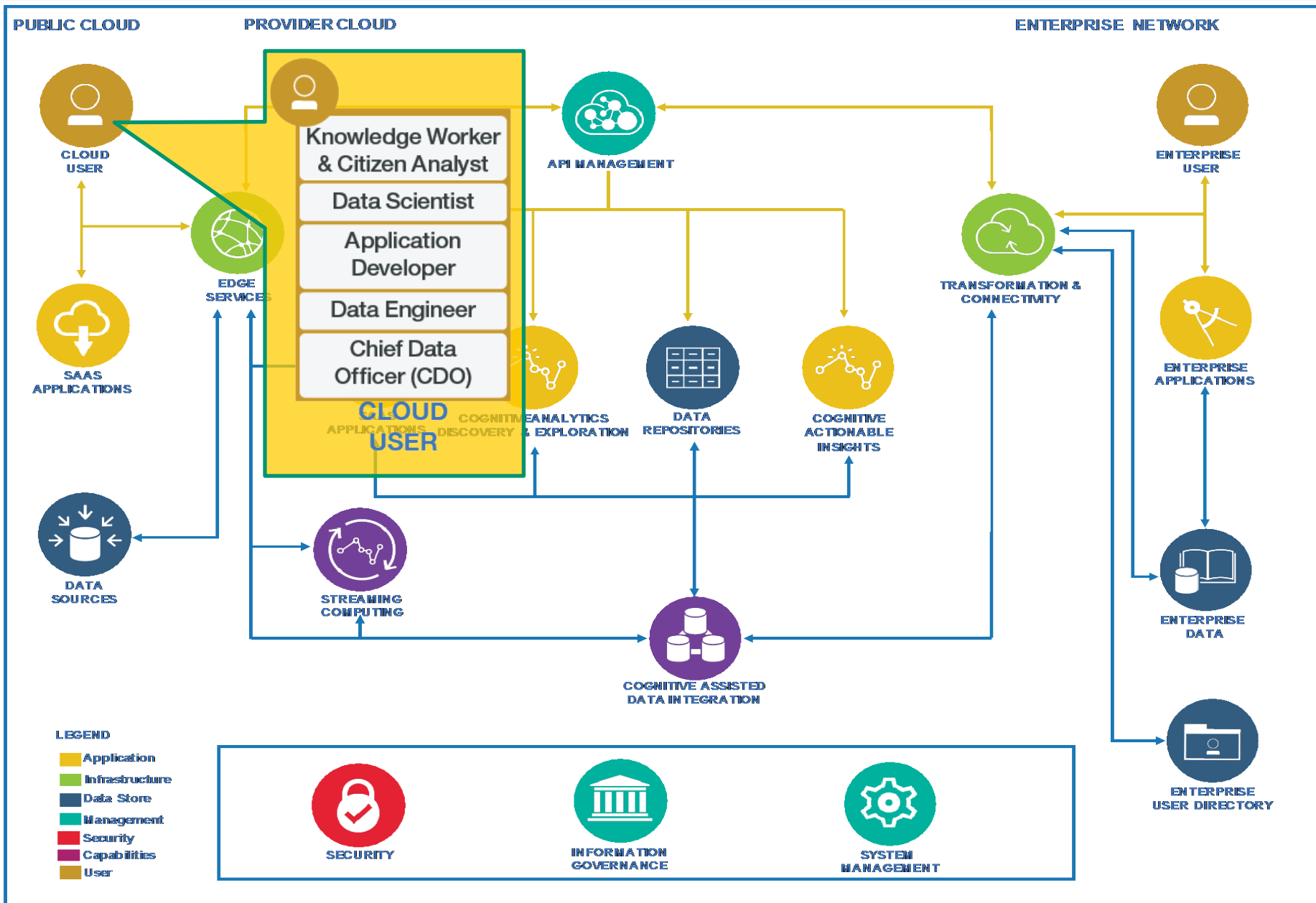
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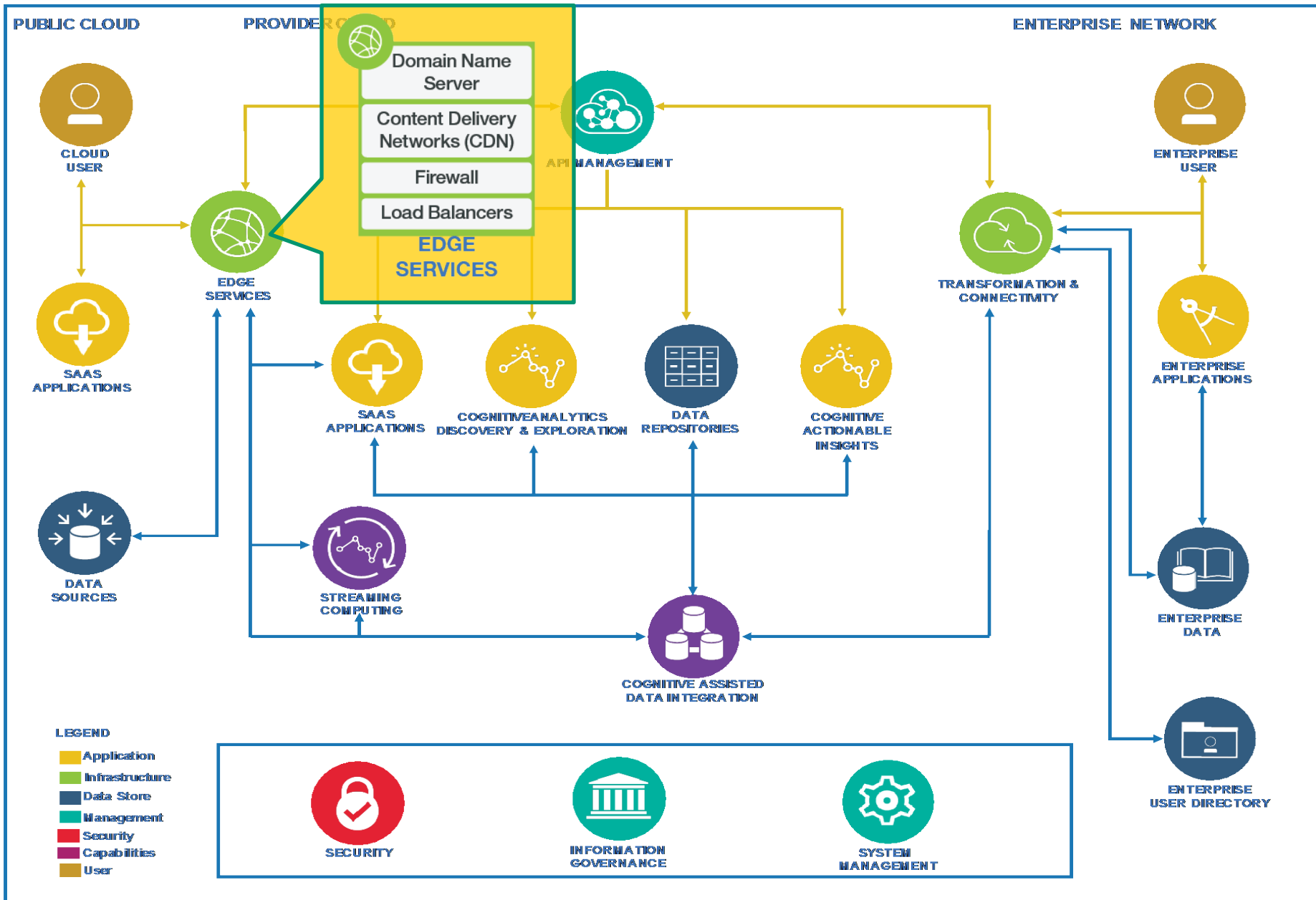
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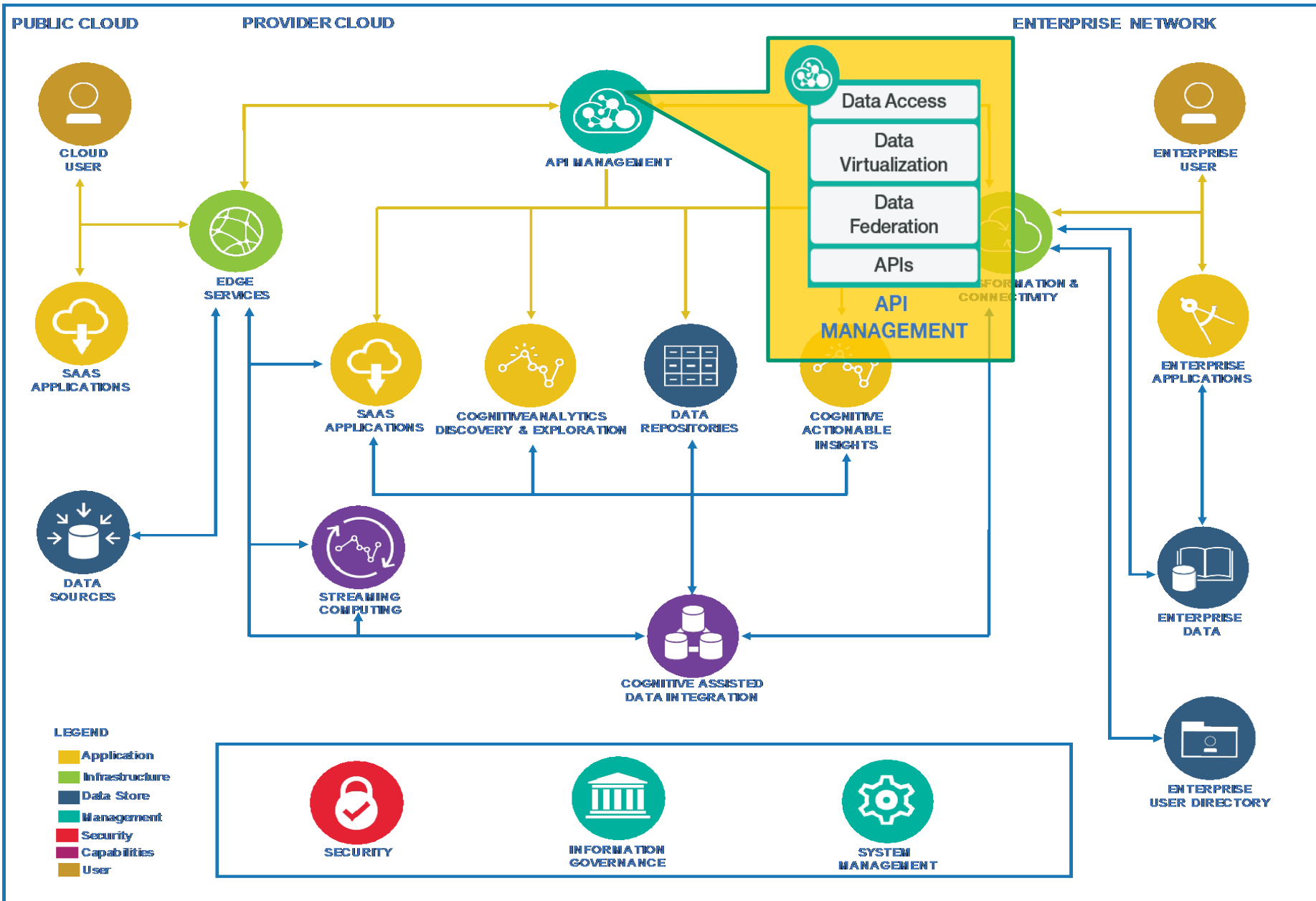
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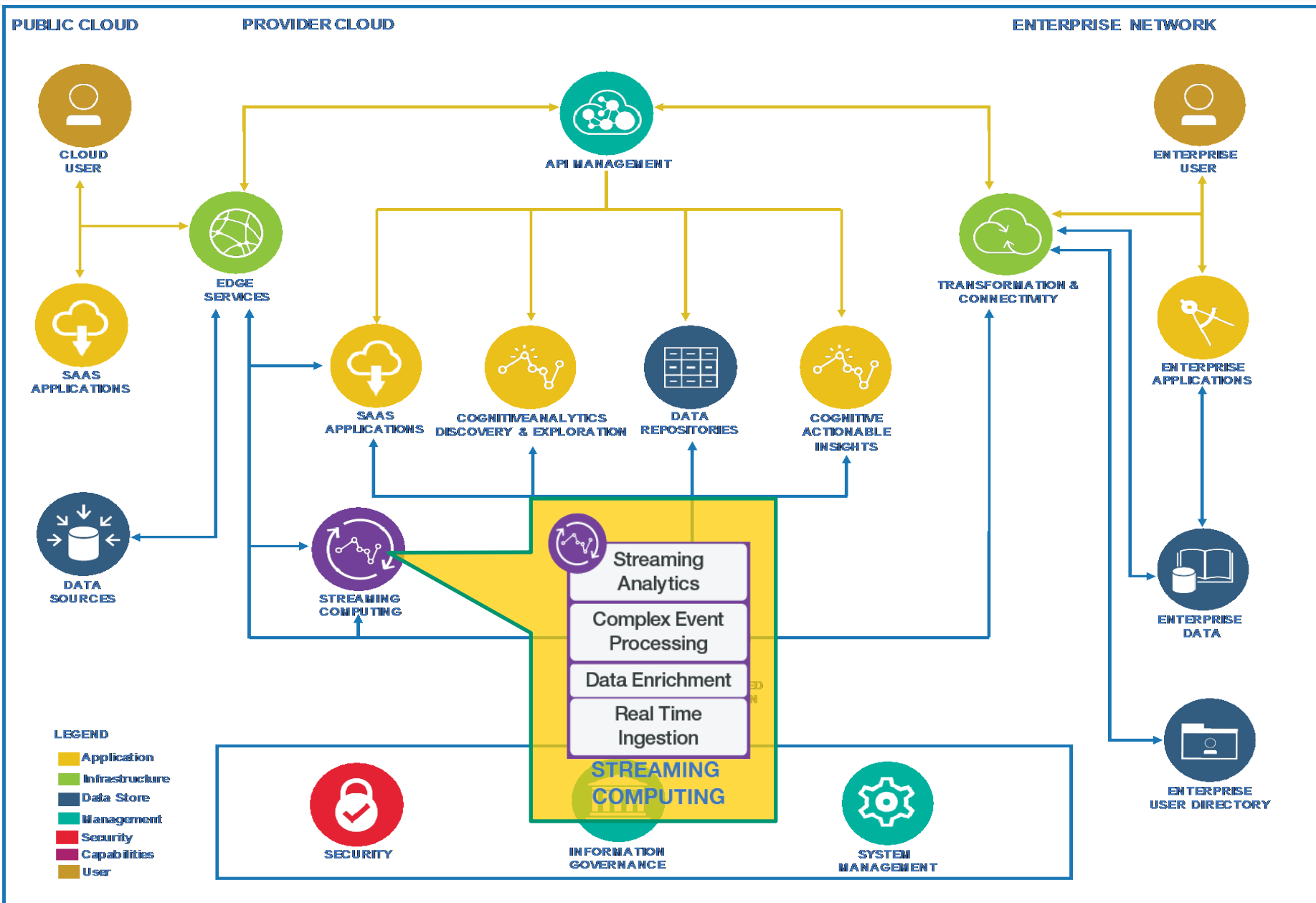
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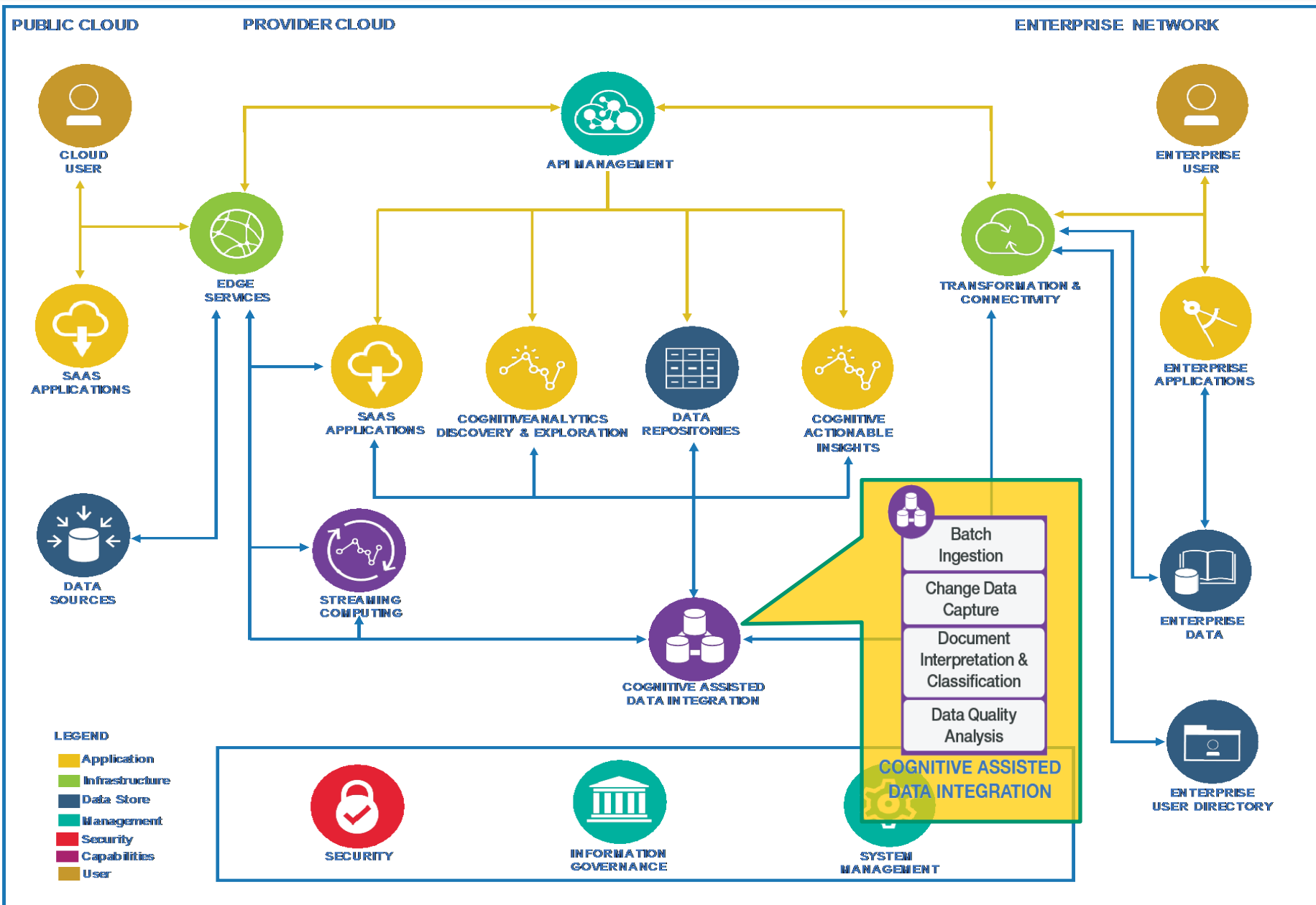
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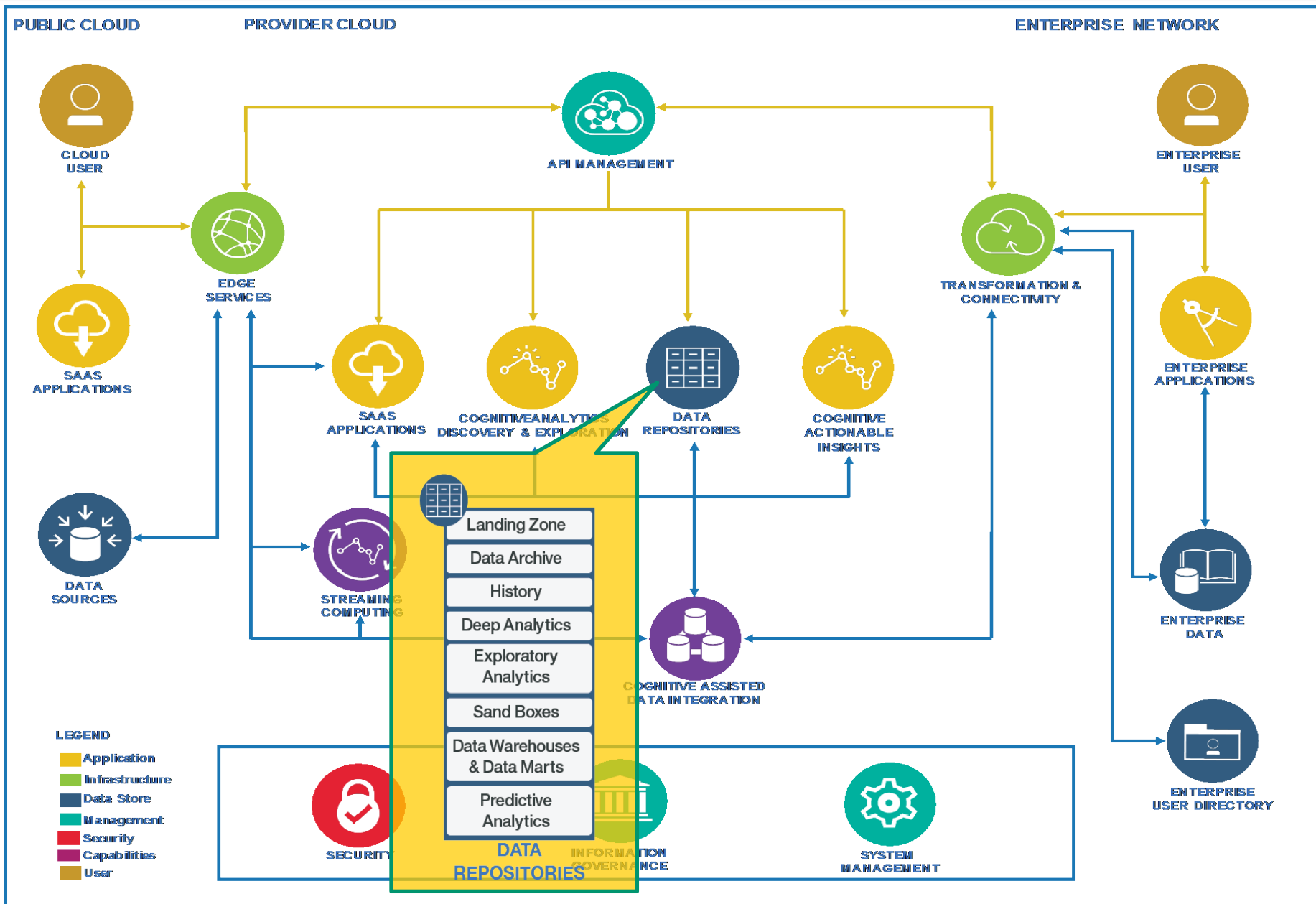
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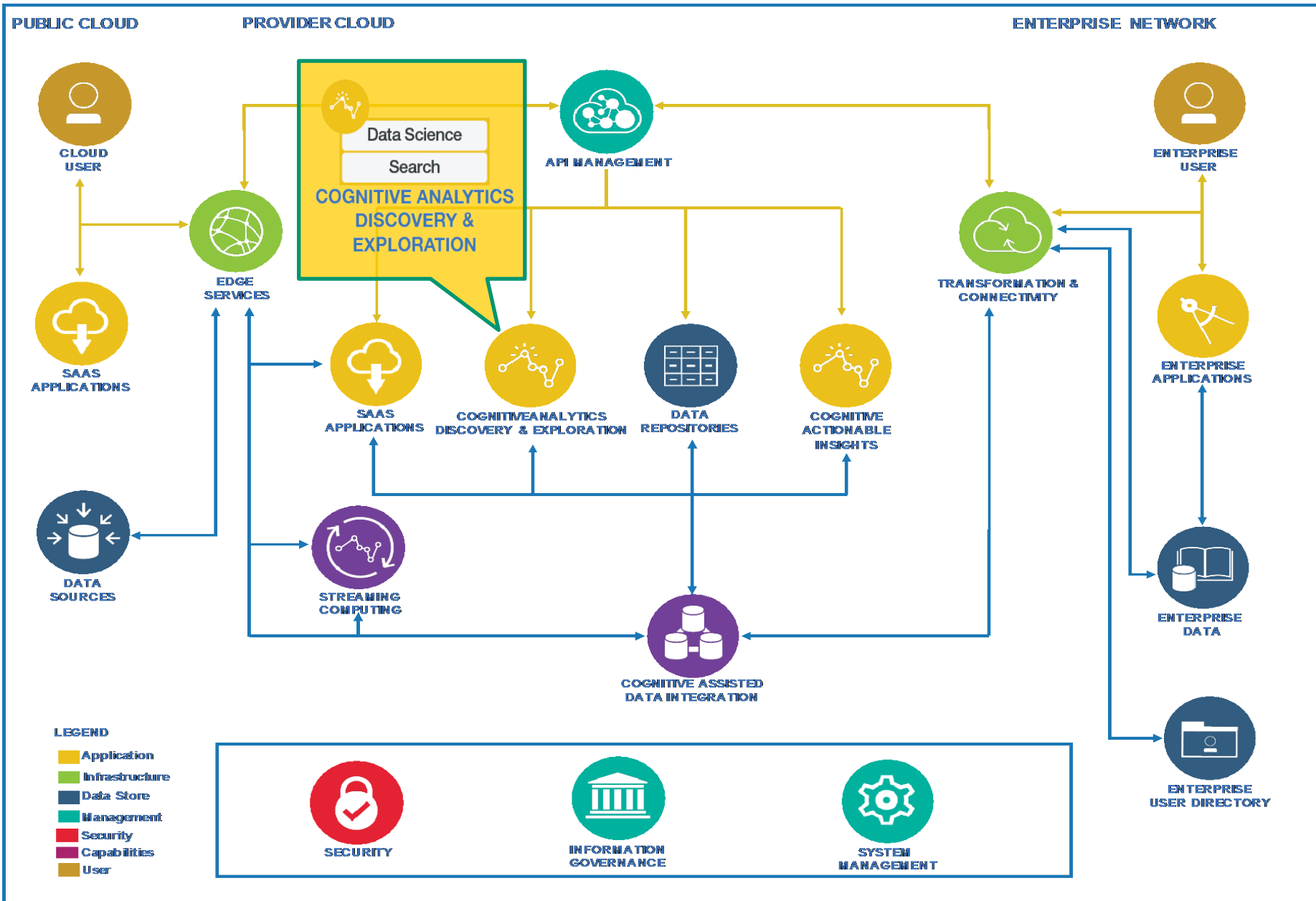
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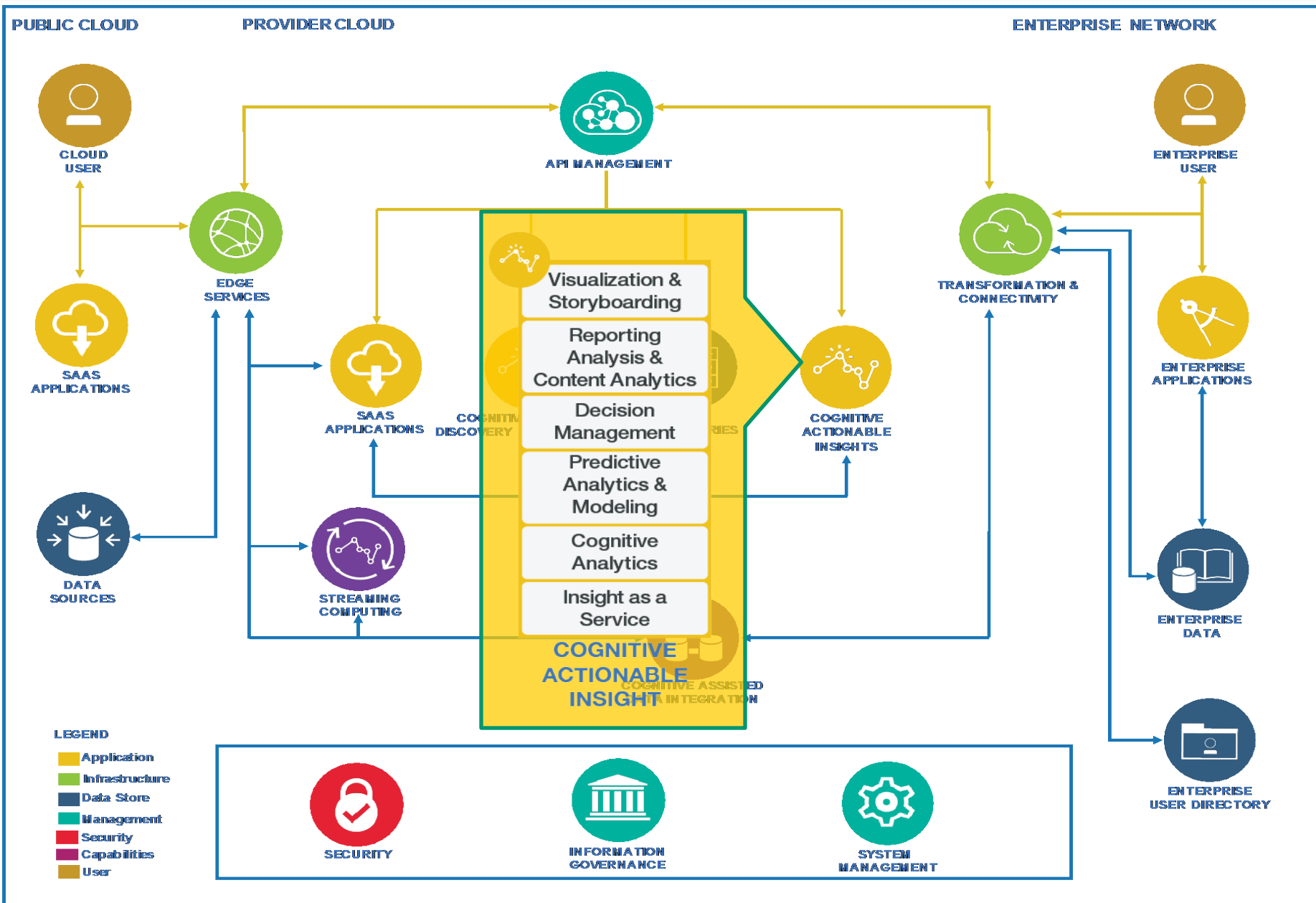
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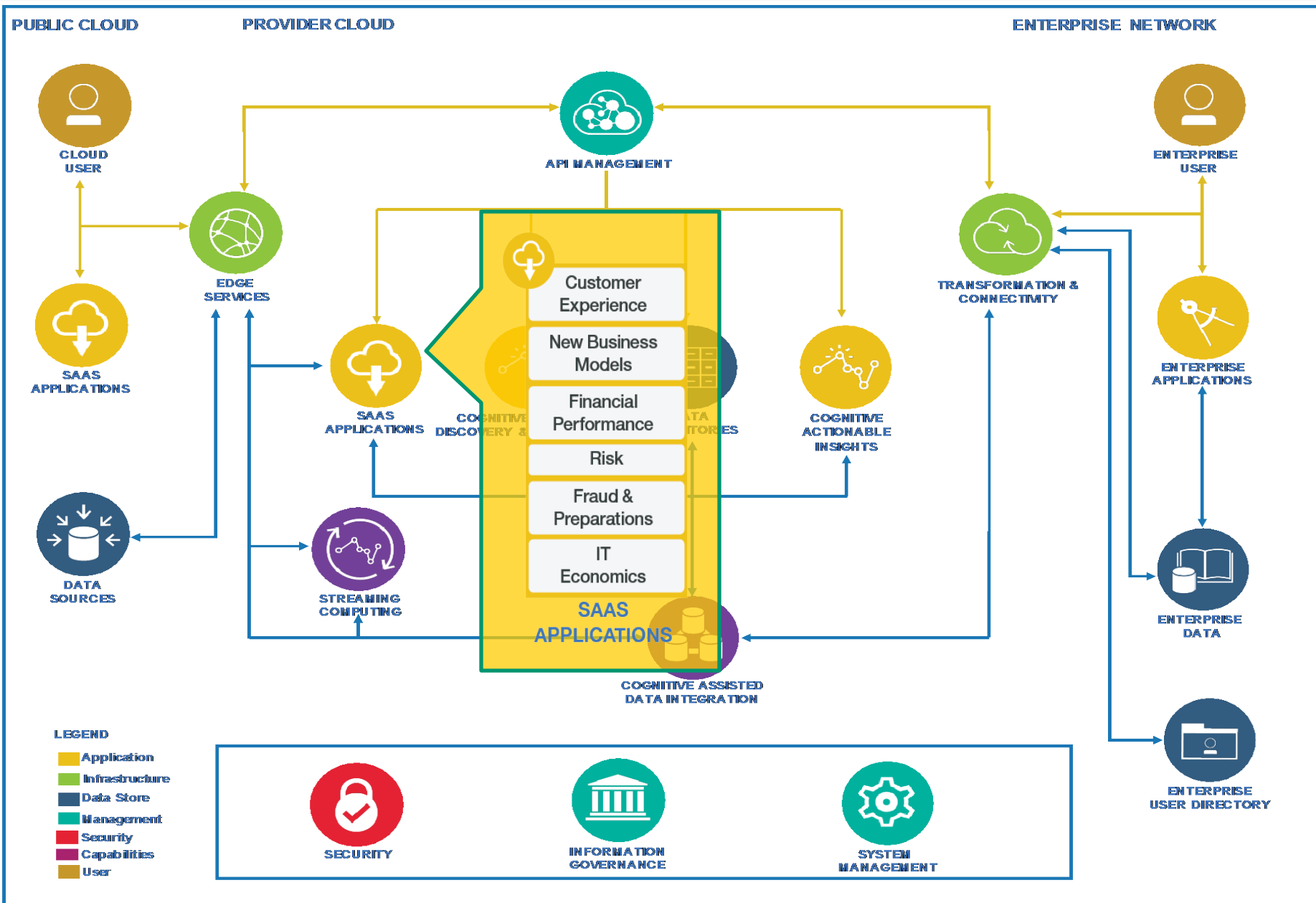
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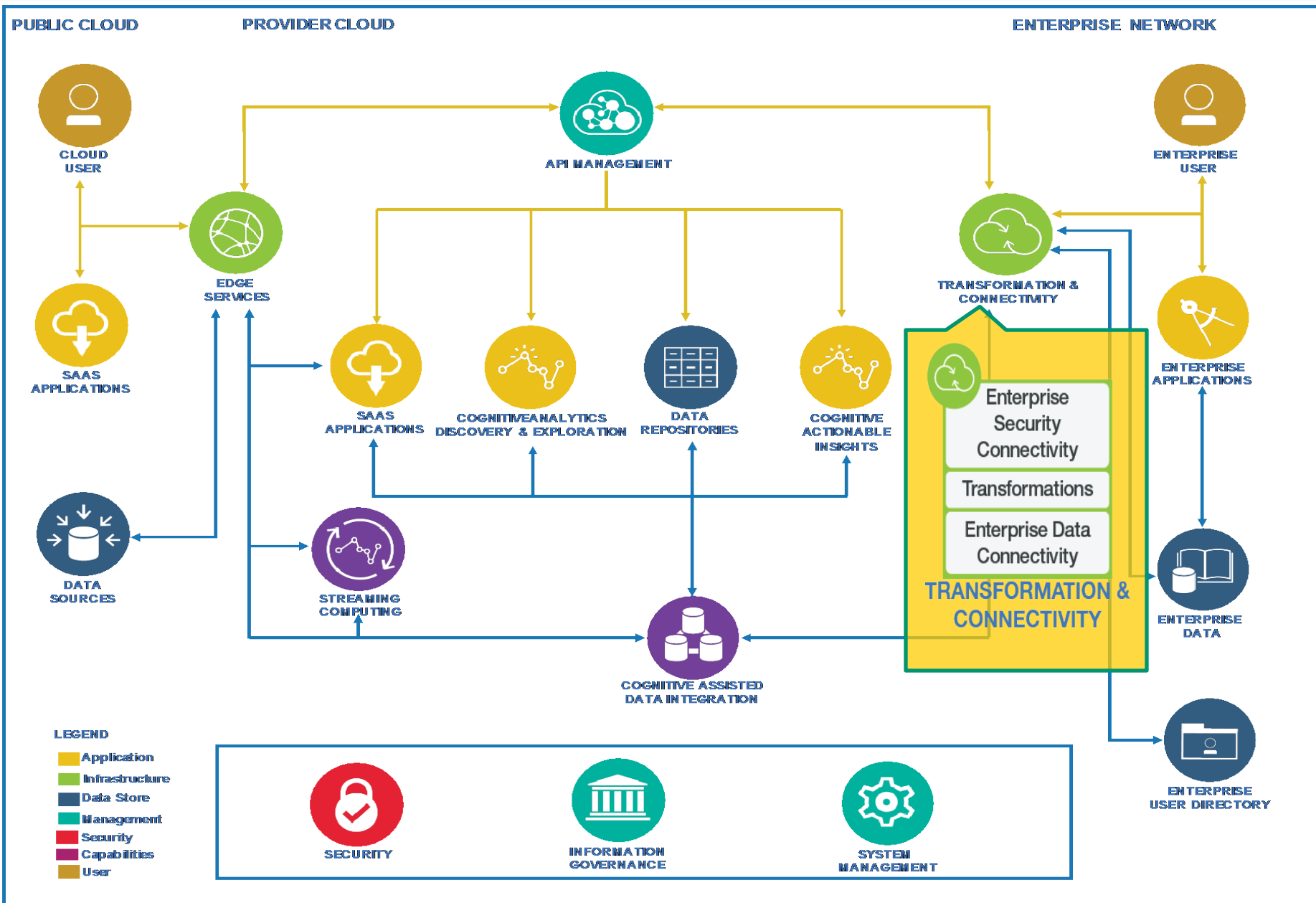
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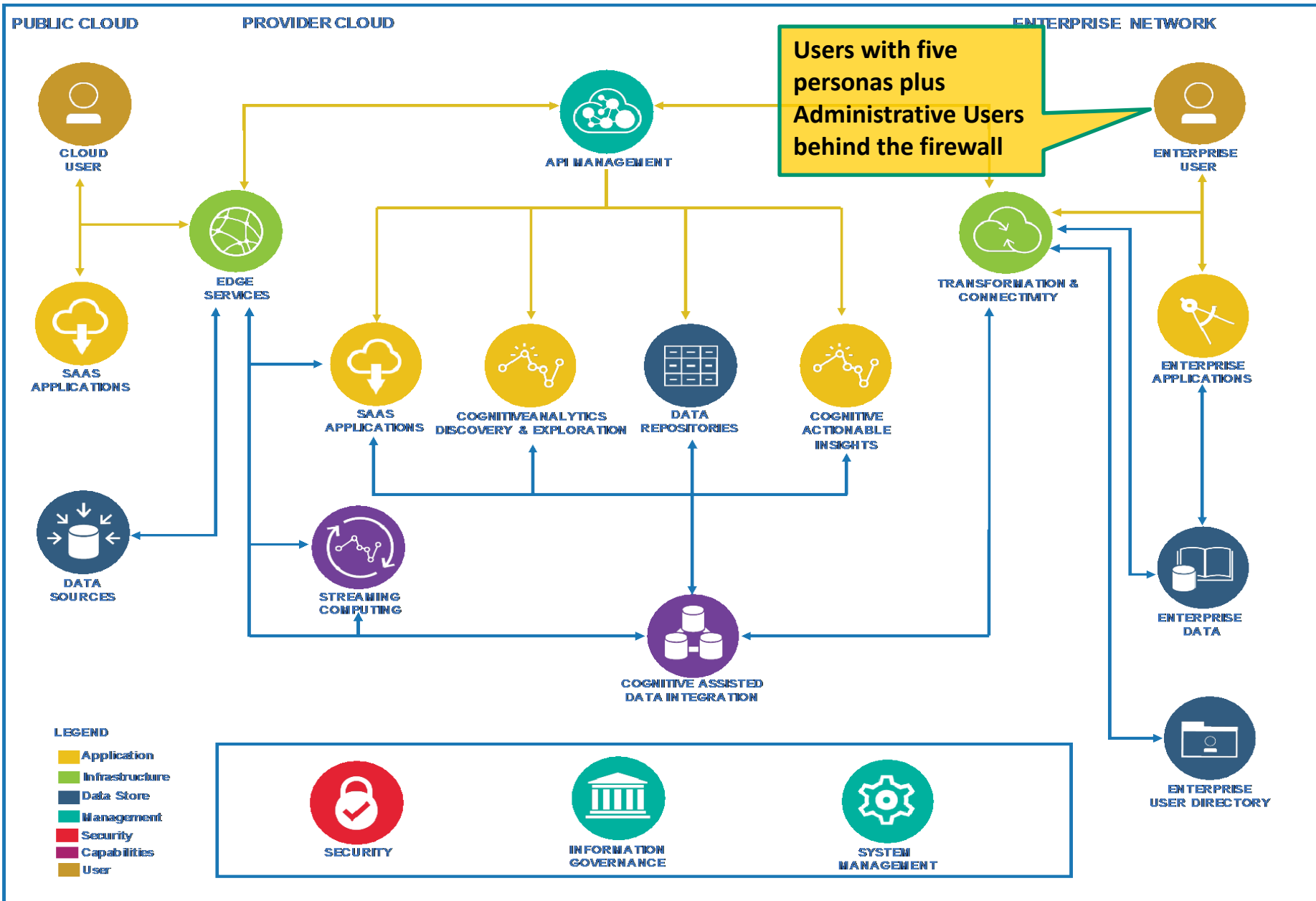
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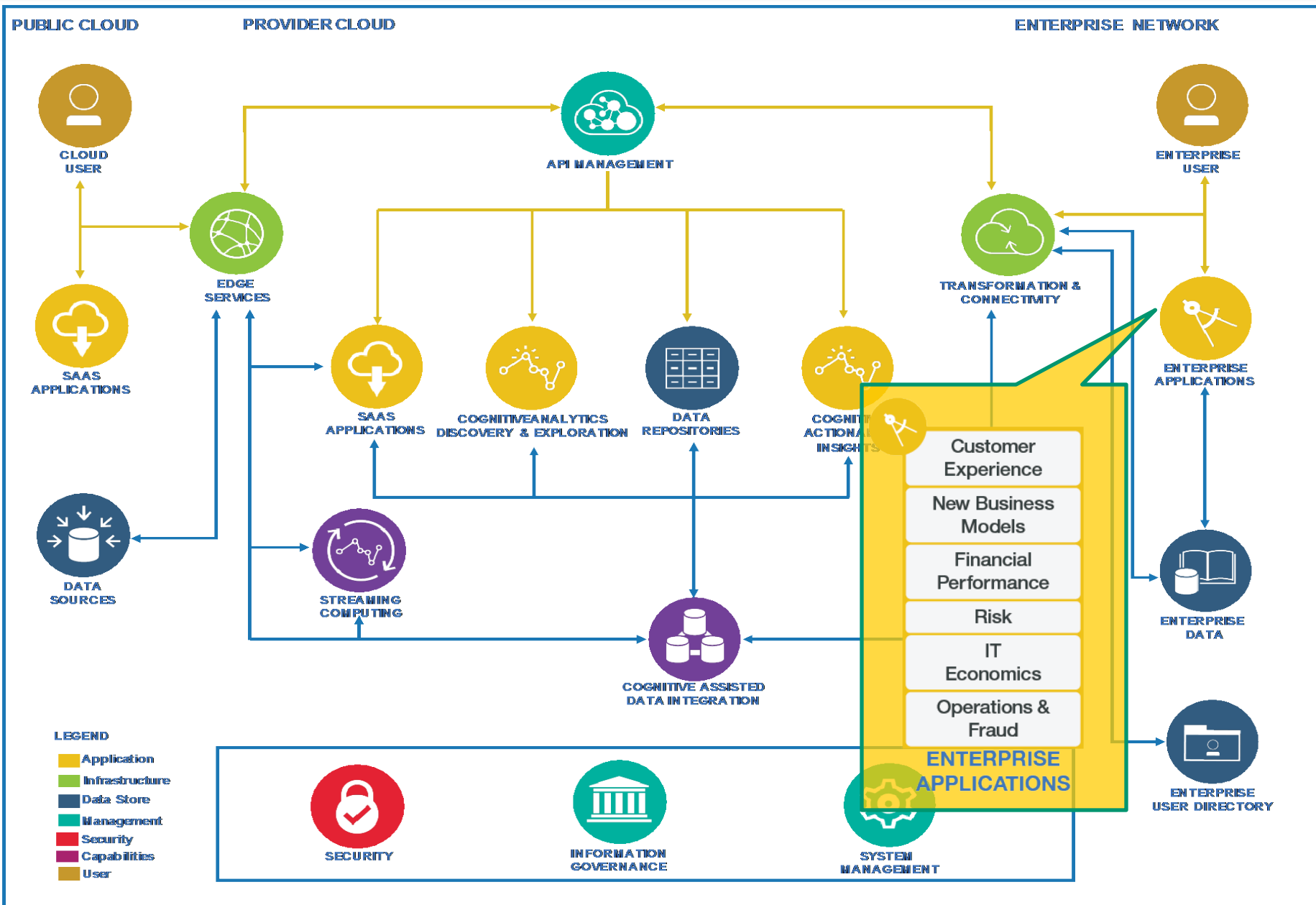
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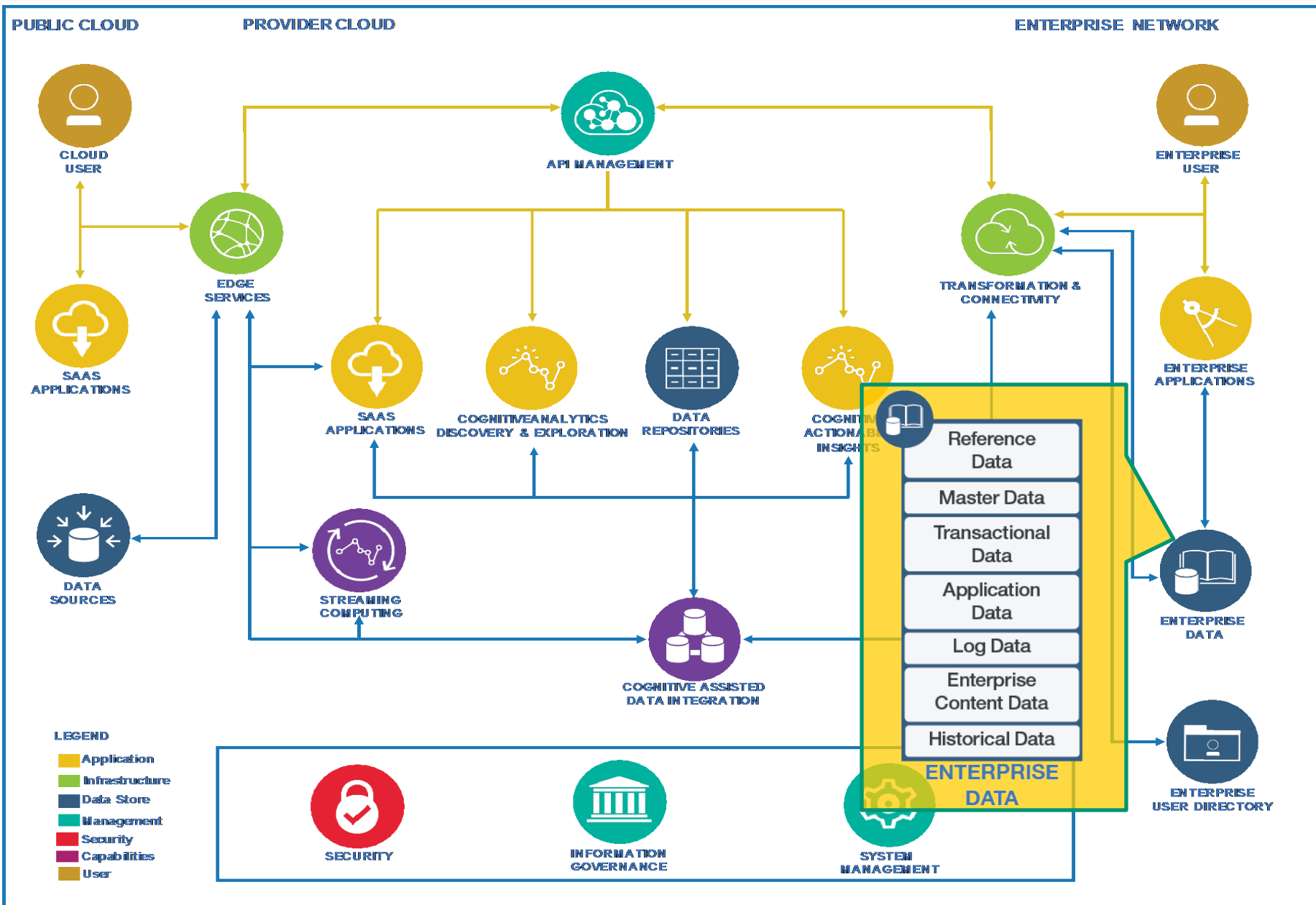
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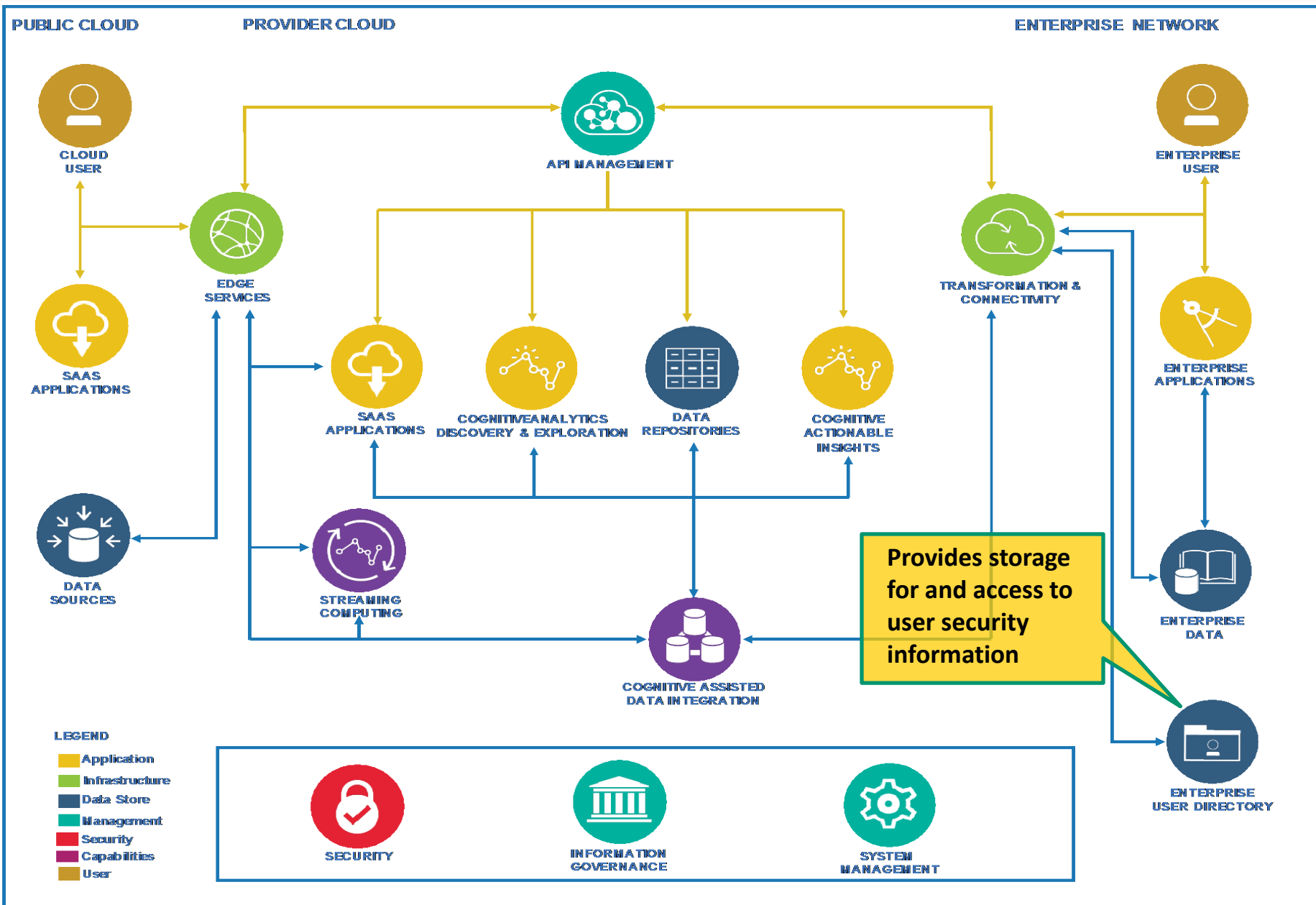
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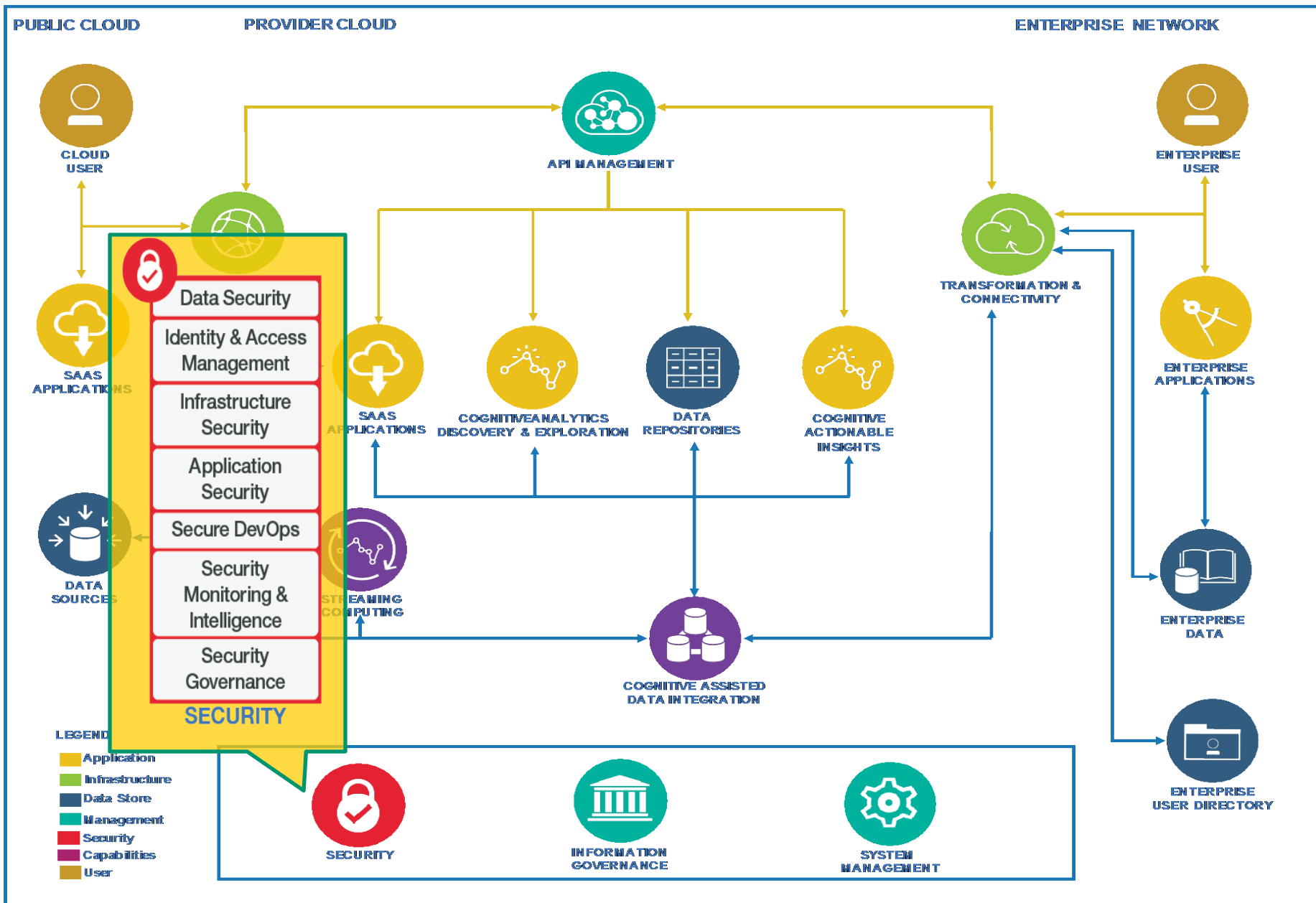
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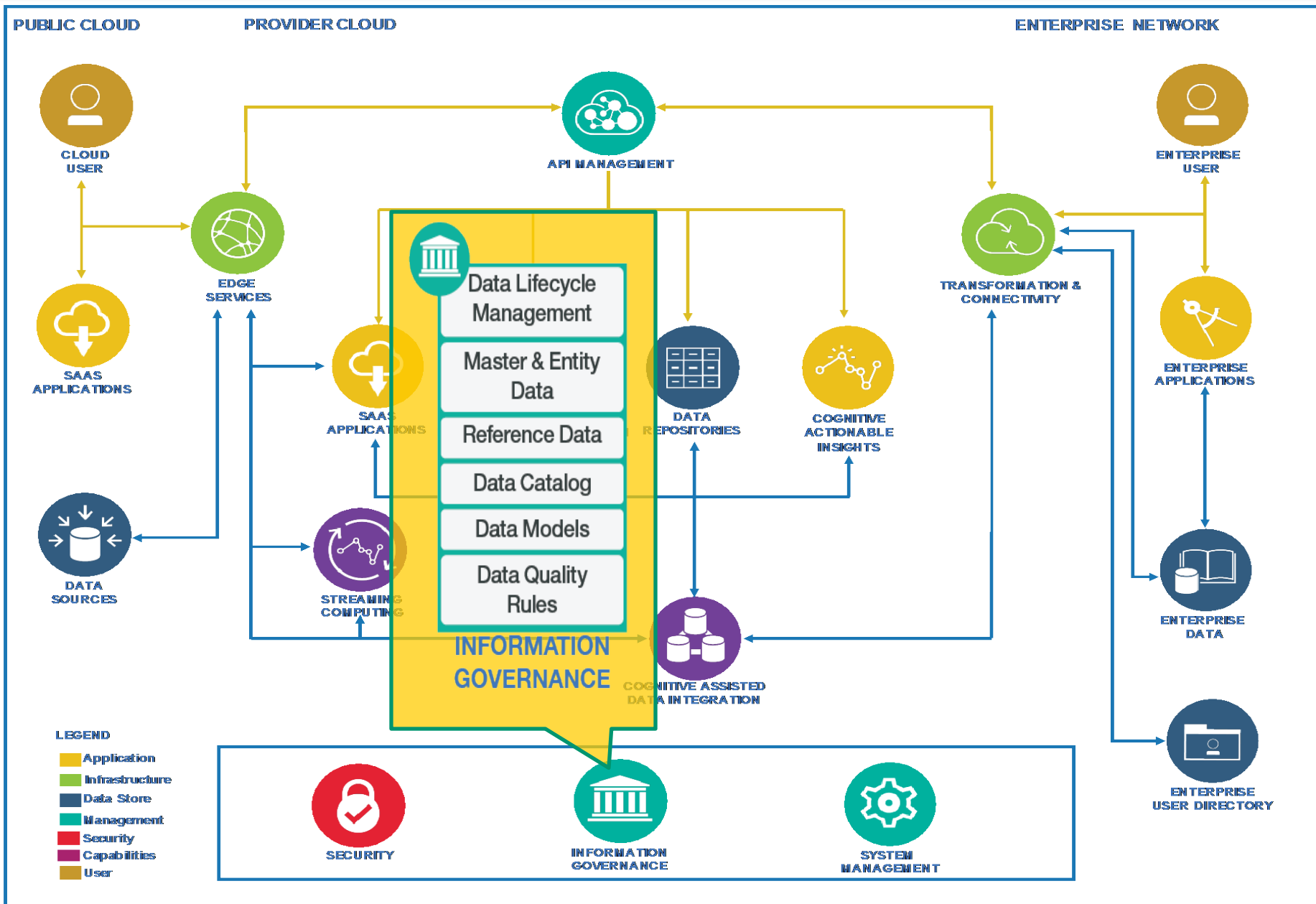
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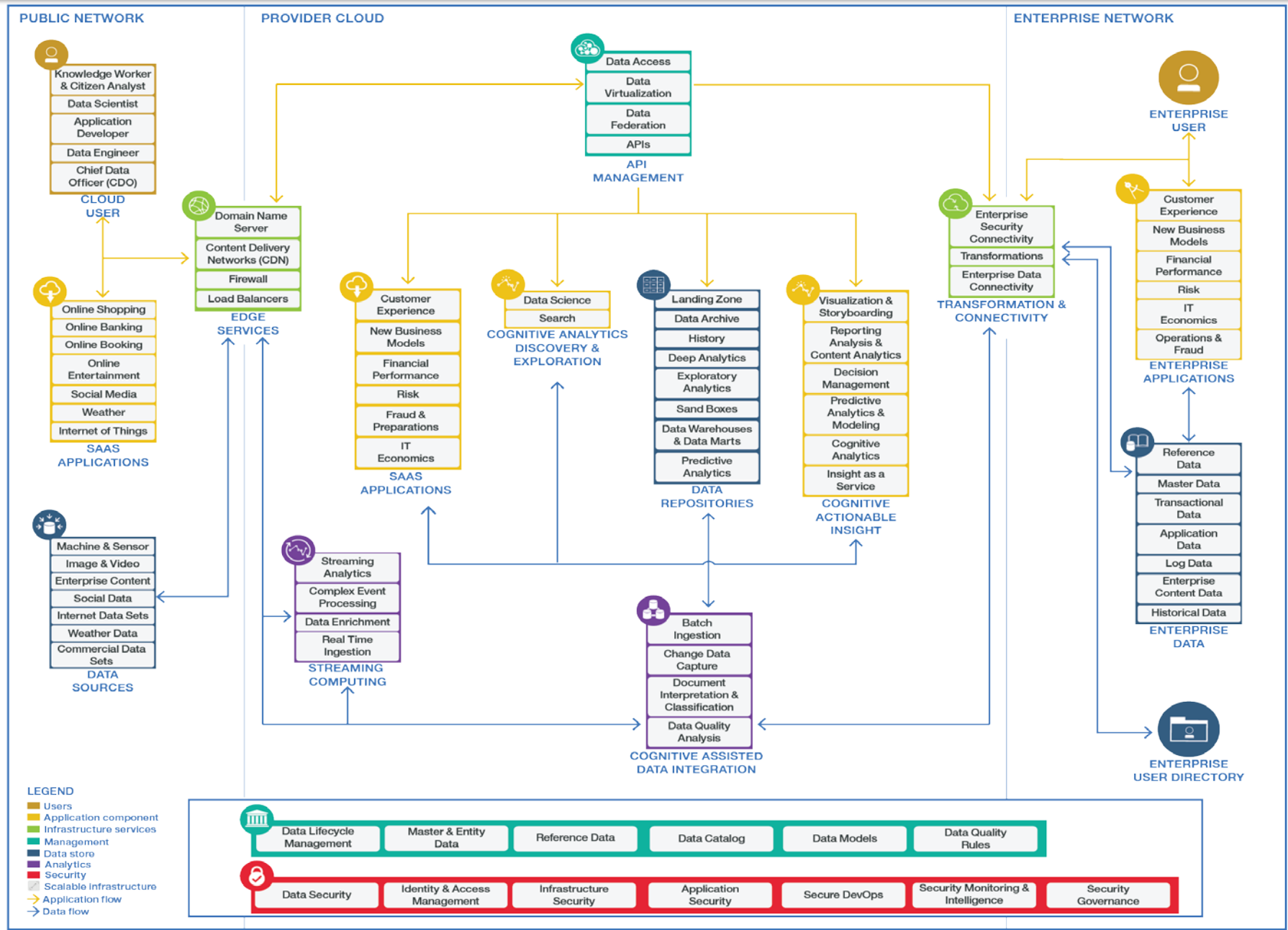
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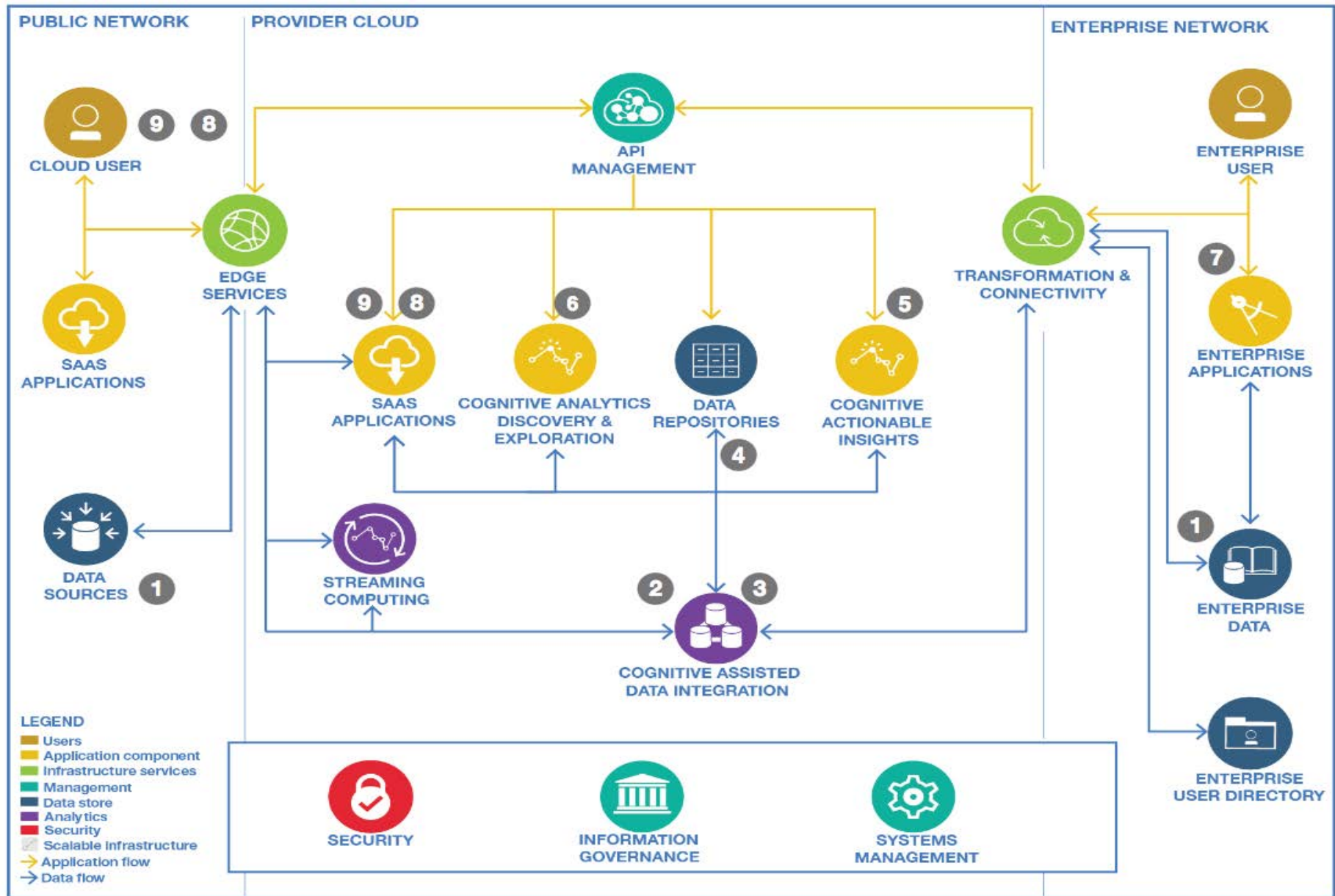
Cloud Customer Architecture for Big Data & Analytics v2



Big Data & Analytics Architecture: Details



Route to Cognitive Bank Scenario



Join us for the next BDA webinar!

Hybrid Cloud Considerations for Big Data and Analytics

Friday, August 11 from 11:00am – 12:00pm ET

Registration www.cloud-council.org/events



Call to Action



■ *Join the CSCC Now!*

- To have an impact on customer use case based standards requirements
- To learn about all Cloud Standards within one organization
- To help define the CSCC's future roadmap
- Membership is free & easy: <http://www.cloud-council.org/become-a-member>

■ *Get Involved!*

- Join one or more of the CSCC Working Groups
<http://www.cloud-council.org/workinggroups>

■ *Leverage CSCC Collateral*

- Visit <http://www.cloud-council.org/resource-hub>

Additional Resources from the CSCC

- Hybrid Cloud Considerations for Big Data & Analytics
<http://www.cloud-council.org/deliverables/hybrid-cloud-considerations-for-big-data-and-analytics.htm>
- Practical Guide to Hybrid Cloud Computing
<http://www.cloud-council.org/deliverables/practical-guide-to-hybrid-cloud-computing.htm>
- Cloud Customer Architecture for Hybrid Integration
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- Security for Cloud Computing: 10 Steps to Ensure Success
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- Practical Guide to Cloud Service Agreements
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- Migrating Applications to Public Cloud Services: Roadmap for Success
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Thank You!

Join the conversation



www.cloud-council.org