EDM Webinar

How to get started with CDMC on Microsoft's platform today

A conversation with

Jubair Patel
Director, Data Security and
Governance Strategy
Microsoft

Microsoft

EDM Council

Moderated by **Mike Meriton**
Co-Founder, EDM Council

- Joined EDM Council full-time 2015 to lead Industry Engagement

- EDM Council Co-Founder & First Chairman (2005-2007)

- EDM Council Finance Board Chair (2007-2015)

- Former CEO GoldenSource (2002-2015)

- Former Executive for D&B Software and Oracle

- FinTech Innovation Lab – Executive Mentor (2011 – Present)

- EDM Council COO (2020-2023)

Today's panel

Moderator

Mike Meriton
Co-Founder
EDM Council

EDMCouncil

Jubair Patel
Director, Data Security and
Governance Strategy
Microsoft

Microsoft

Cloud Data Management Capabilities (CDMC)

CDMC Working Group

Cloud Challenges

- **Regulatory Mandate:** safeguard cloud computing services to protect customers' sensitive information
- **Inefficiency:** data, technology, regulatory and planning challenges on nearly every cloud implementation
- **Complexity:** 89% of firms use 2 or more cloud providers*

CDMC Group Objectives

1. **Best Practices** for a hybrid-cloud world
2. **Cloud Data Controls** to meet regulatory obligations for protecting Sensitive Data
3. **Accelerate Trusted Cloud Adoption** modeled after the DCAM data management industry framework

* Source: Flexera, 2022 State of the Cloud

Cloud Data Management Capabilities (CDMC) Industry Engagement

100+ Organizations – 300+ SME participants – Cross Industry Leading Organizations

CDMC Working Group

LSEG Morgan Stanley J.P.Morgan citi Goldman Sachs Standard Chartered UBS HSBC SOCIETE GENERALE WELLS FARGO Deutsche Bank BARCLAYS TP ICAP LLOYDS BANK NORTHERN TRUST DTCC Tradeweb PayPal TD Bank BNP PARIBAS Nasdaq FreddieMac We make home possible® KPMG CAPCO EY

Cloud & Technology Providers

Microsoft Azure IBM Cloud Google Cloud aws collibra snowflake Informatica BigID data.world PRIVITAR Solidatus securiti

Regulatory Engagement

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- **US:** Federal Reserve, SEC, CFTC, FDIC
- **Canada:** OSFI
- **UK:** BoE, FCA, ICO
- **EU:** ECB, ESMA (pending)
- **Germany:** BaFin
- **Switzerland:** FinMA
- **Australia:** APRA
- **Singapore:** MAS
- **Israel:** Bank of Israel
- **India:** RBI, SEBI (pending)
- **Africa/Middle East:** 20+ Regulators
- Others in process…

CDMC Adoption Support

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- Training Courses
- Cloud Service Certification
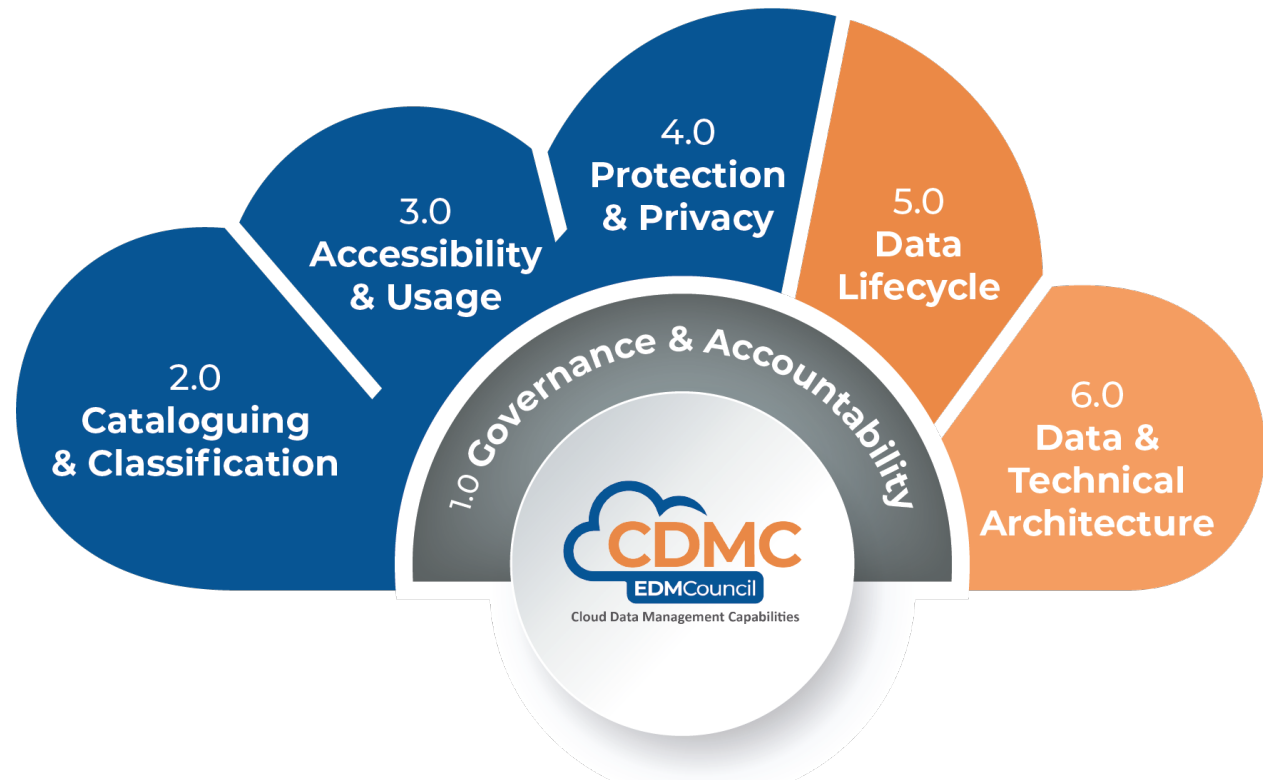- Open Source Tools
- CDMC Authorized Partner Program

2022
CDMC Framework Validated Cross Industry

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- **Life Sciences**
- **Telecommunications**
- **Manufacturing**
- **Retail / Services / CPG**
- **Consumer Tech**
- **Government / Defense**

**CDMC Working Group Delivered release v1.1
28 September 2021**

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CDMC Framework

160+ Pages
6 Components
14 Capabilities
37 Sub-capabilities
14 Key Controls

2.0 Cataloguing & Classification
3.0 Accessibility & Usage
4.0 Protection & Privacy
5.0 Data Lifecycle
6.0 Data & Technical Architecture
1.0 Governance & Accountability

CDMC
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Cloud Data Management Capabilities

Free Best practice framework for the migration, management, and enablement of sensitive data in cloud

Free license – Download at:
EDMCouncil.org > Frameworks > CDMC

Microsoft Announces Native Availability of CDMC 14 Key Controls & Automations

Microsoft

CDMC™
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Cloud Data Management Capabilities

March 20, 2023 • 5 min read

Microsoft achieves first native Cloud Data Management Capabilities certification

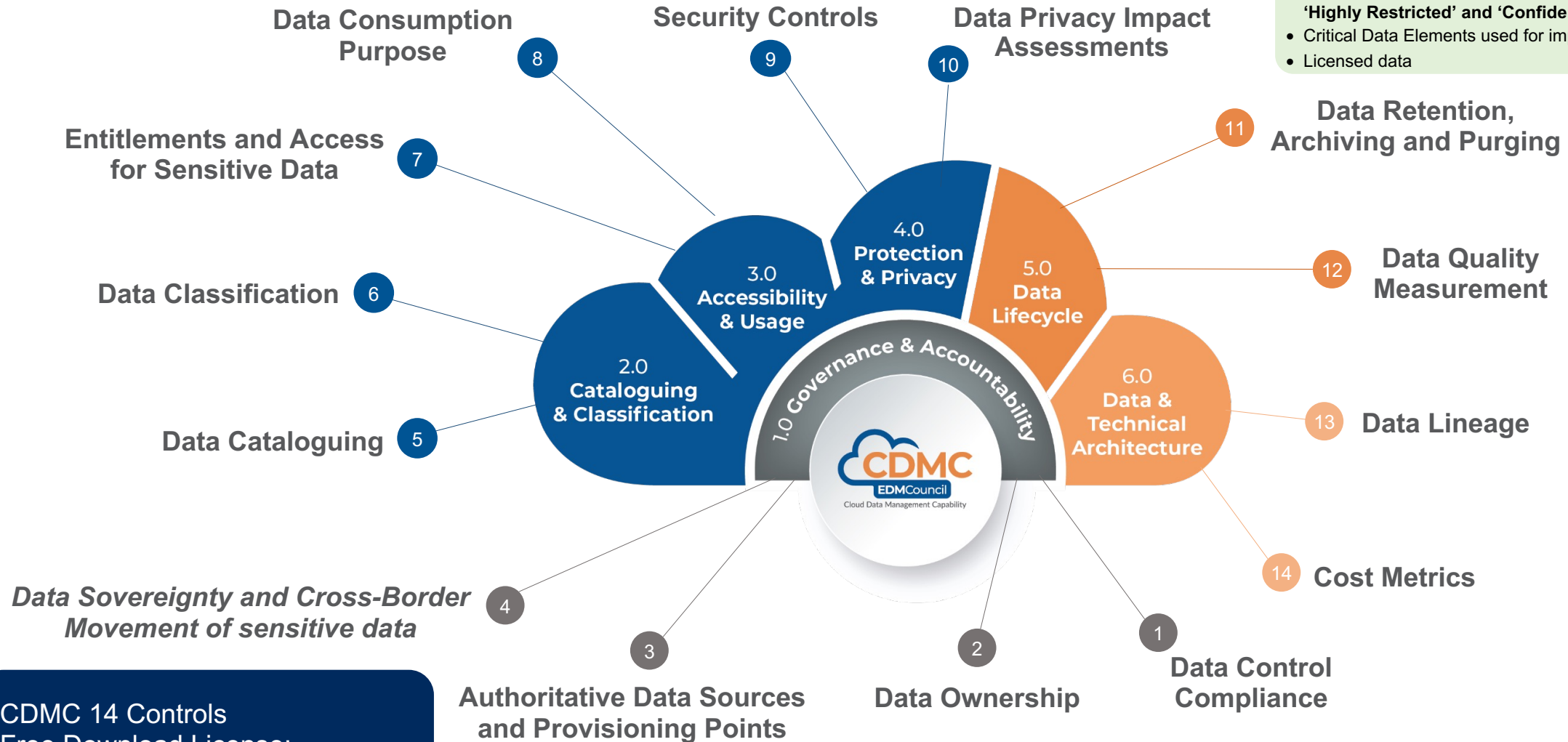Mike Flasko   Vice President and General Manager, Data Governance

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CDMC™
CERTIFIED CLOUD SOLUTION

March 2023

Cloud Data Management Capabilities
14 Key Controls for Managing Data Risk

Sensitive *Data* includes classifications such as:

- Personal Information **(PI)** / Sensitive Personal Data
- Personally Identifiable Information **(PII)**
- Personal Health Information **(PHI)**
- Company or Client Identifiable Information
- Material Non-Public Information **(MNPI)**
- Specific Information Sensitivity Classifications (such as **'Highly Restricted' and 'Confidential'**)
- Critical Data Elements used for important business processes
- Licensed data

Data Consumption Purpose — 8

Security Controls — 9

Data Privacy Impact Assessments — 10

Entitlements and Access for Sensitive Data — 7

Data Retention, Archiving and Purging — 11

Data Classification — 6

Data Quality Measurement — 12

Data Cataloguing — 5

Data Lineage — 13

Data Sovereignty and Cross-Border Movement of sensitive data — 4

Cost Metrics — 14

Authoritative Data Sources and Provisioning Points — 3

Data Ownership — 2

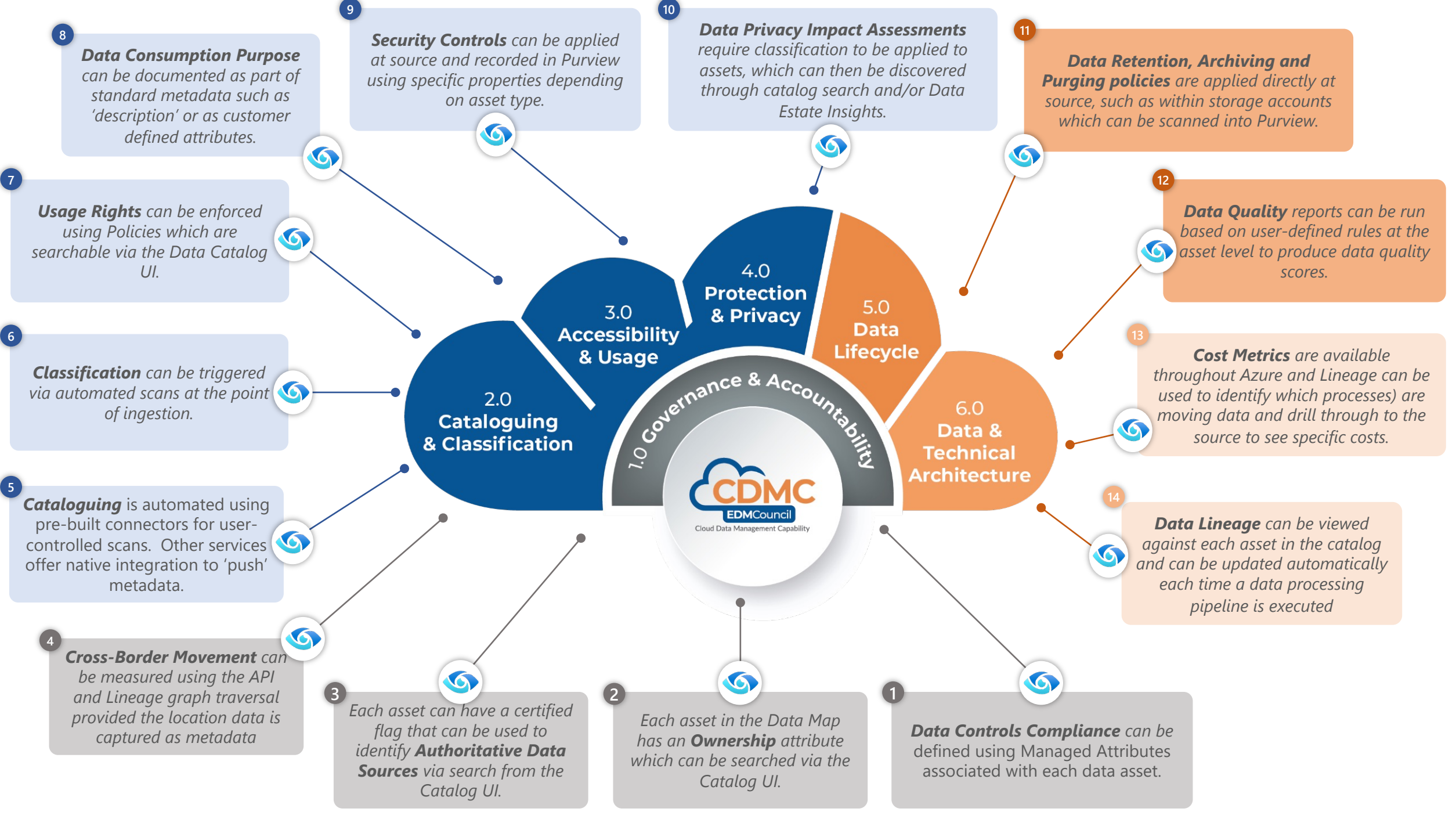Data Control Compliance — 1

1.0 Governance & Accountability
2.0 Cataloguing & Classification
3.0 Accessibility & Usage
4.0 Protection & Privacy
5.0 Data Lifecycle
6.0 Data & Technical Architecture

CDMC EDMCouncil
Cloud Data Management Capability

CDMC 14 Controls
Free Download License:
EDMCouncil.org > Frameworks

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8 *Data Consumption Purpose* can be documented as part of standard metadata such as 'description' or as customer defined attributes.

9 *Security Controls* can be applied at source and recorded in Purview using specific properties depending on asset type.

10 *Data Privacy Impact Assessments* require classification to be applied to assets, which can then be discovered through catalog search and/or Data Estate Insights.

11 *Data Retention, Archiving and Purging policies* are applied directly at source, such as within storage accounts which can be scanned into Purview.

7 *Usage Rights* can be enforced using Policies which are searchable via the Data Catalog UI.

12 *Data Quality* reports can be run based on user-defined rules at the asset level to produce data quality scores.

6 *Classification* can be triggered via automated scans at the point of ingestion.

5 *Cataloguing* is automated using pre-built connectors for user-controlled scans. Other services offer native integration to 'push' metadata.

13 *Cost Metrics* are available throughout Azure and Lineage can be used to identify which processes) are moving data and drill through to the source to see specific costs.

14 *Data Lineage* can be viewed against each asset in the catalog and can be updated automatically each time a data processing pipeline is executed

4 *Cross-Border Movement* can be measured using the API and Lineage graph traversal provided the location data is captured as metadata

3 Each asset can have a certified flag that can be used to identify **Authoritative Data Sources** via search from the Catalog UI.

2 Each asset in the Data Map has an **Ownership** attribute which can be searched via the Catalog UI.

1 *Data Controls Compliance* can be defined using Managed Attributes associated with each data asset.

3.0 **Accessibility & Usage**

4.0 **Protection & Privacy**

5.0 **Data Lifecycle**

2.0 **Cataloguing & Classification**

1.0 Governance & Accountability

6.0 **Data & Technical Architecture**

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Cloud Data Management Capability

Search catalog

Data catalog >

dbo.Employee.parquet 🎖 Certified
📄 Azure Data Lake Storage Gen2 | File

★★★★☆ (1)

➕ Add Tag

| ✏️ Edit | ⊕ Select for bulk edit | 💬 Request access | 🔄 Refresh | 🗑 Delete | 🗗 Data share | | Open in Power BI Desktop |

Overview | Properties | Schema | Lineage | Contacts | Related | Updated on June 8, 2023 at 2:30 PM

Managed attributes

🔽 Filter by attribute name   ⬜ Show attributes without a value

⌄ **Business Ownership** ⓘ

Division	Division-B, Division-A
SubOrganisation	Finance
Team	Business

⌄ **Compliance Management** ⓘ

CDMC Compliance Score	60.0
CDMC Compliance Status ⓘ	Pass
Processing Cost	50

⌄ **Data Residency** ⓘ

| Cloud Region | Canada Central |
| Cross Border Movement Restriction | true |

⌄ **Usage Rights** ⓘ

| Applicable Group ⓘ | North America HR |
| Can be copied | false |

HR-workday

Hierarchy

🗄 **stexternaldataplatform**
Azure Storage Account

🗂 **stexternaldataplatform**
Azure Data Lake Storage Gen2 Service

🗄 **curate**
Azure Data Lake Storage Gen2 File System

📄 **dbo.Employee.parquet**
Azure Data Lake Storage Gen2 | File

Glossary terms

Glossary

Retail Customer

Name

Employee

UK_South

Show less ⌃

General

Overview

Metrics

Lineage connections

Data Factory

Data Share

Workflow (Preview)

Authoring

Requests and approvals

Workflow runs

Security and access

Credentials

Managed private endpoints
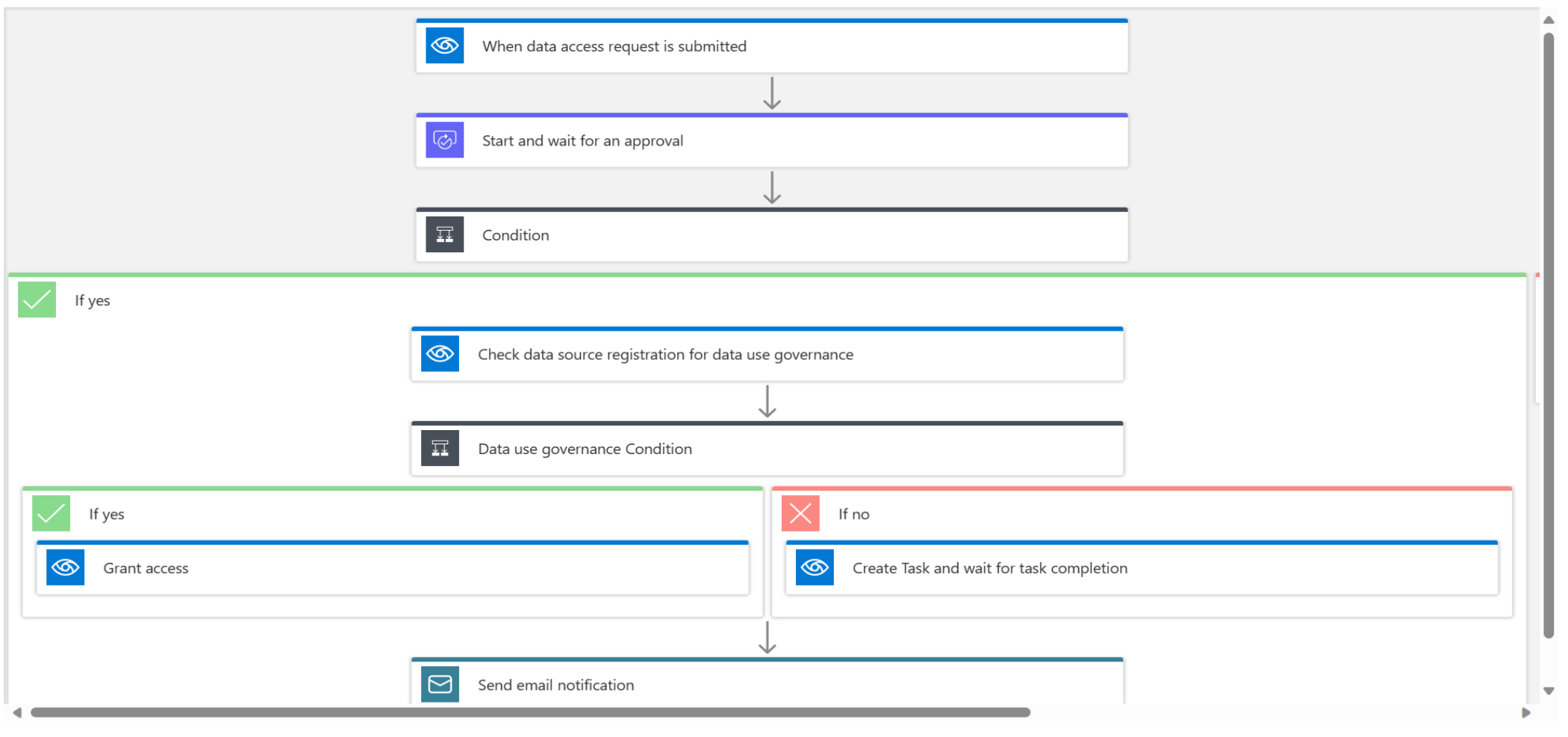
Management > Authoring >

This PREVIEW feature is licensed to you as part of your Azure Subscription ↗. By proceeding you acknowledge the Preview Terms ↗ and Privacy Statement ↗

Data access request Gems
⟳ Microsoft Purview workflow

✏️ View name and description   🗑️ Delete   ⊕ Apply workflow   ⟳ View run history   ⬤ Enabled

⚠️ You don't have required permission to edit this workflow, viewing it in read-only mode. Learn more ↗   ✕

👁️ When data access request is submitted

⟳ Start and wait for an approval

⊞ Condition

✓ If yes

👁️ Check data source registration for data use governance

⊞ Data use governance Condition

✓ If yes

👁️ Grant access

✕ If no

👁️ Create Task and wait for task completion

✉️ Send email notification

Save   Cancel

Search catalog

dbo.Employee.parquet ⚐ Certified

📄 Azure Data Lake Storage Gen2 | File

★★★★☆ (1)

✏ Edit   ⊕ Select for bulk edit   💬 Request access   ↻ Refresh   🗑 Delete   🗔 Data share

Open in Power BI Desktop

| Overview | Properties | Schema | **Lineage** | Contacts | Related |

Updated on June 8, 2023 at 2:30 PM

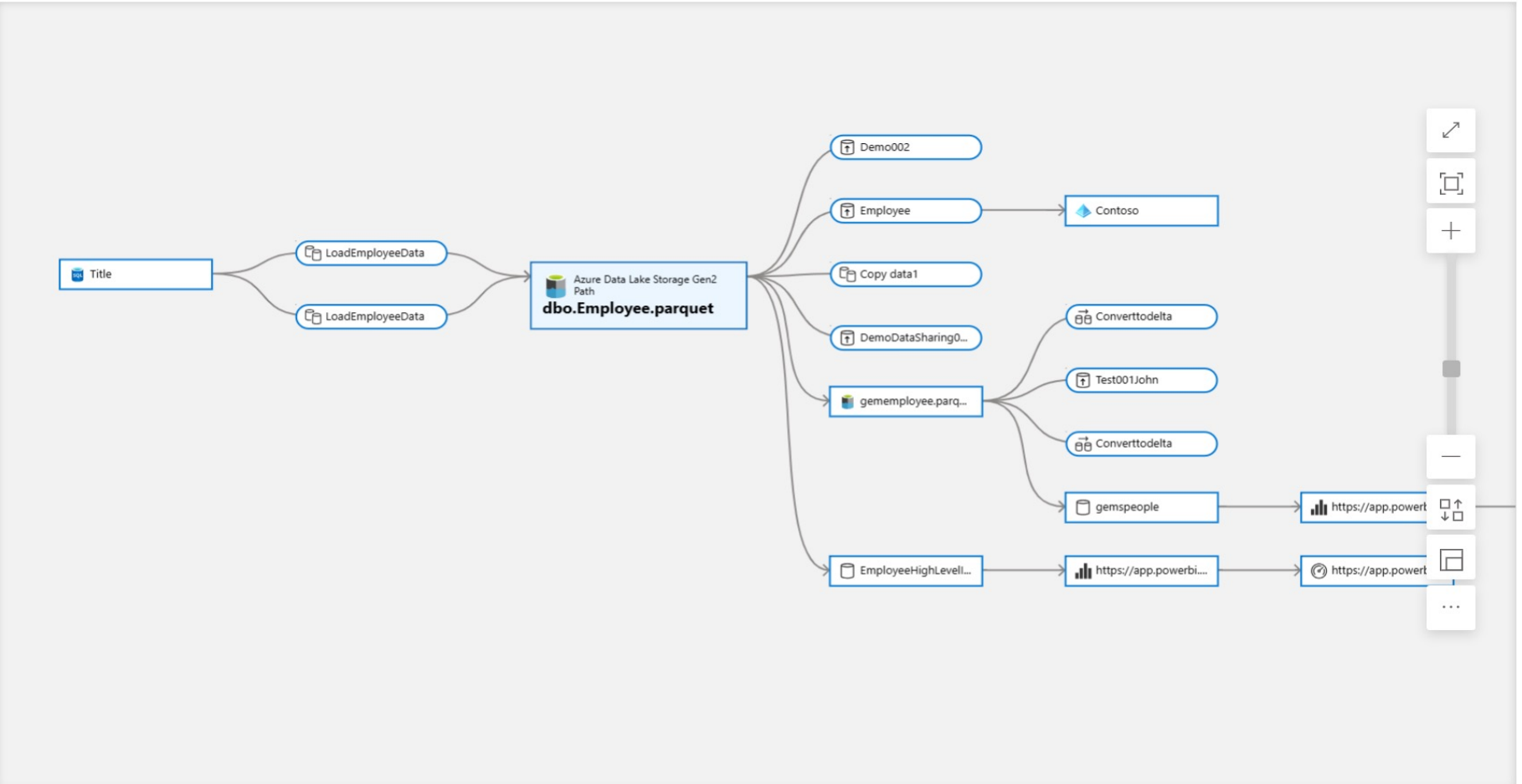🔍 Search for assets or processes

🔵 More lineage

dbo.Employee.parquet Columns ≪

🔽 Search and select columns

⚪ Show only assets with all 0 columns

	Columns
☐	🗂 BaseRate
☐	🗂 BirthDate
☐	🗂 CurrentFlag
☐	🗂 DepartmentName
☐	🗂 EmailAddress
☐	🗂 EmailAddress1
☐	🗂 EmergencyContactName
☐	🗂 EmergencyContactPhone
☐	🗂 EmployeeKey
☐	🗂 EmployeeNationalIDAlternateKey
☐	🗂 EndDate
☐	🗂 FirstName
☐	🗂 Gender

CDMC

Microsoft's Guide to Cloud Data Management

Microsoft's support aligned to CDMC 14 Key Controls

Microsoft

> ## Getting started with the CDMC framework—Microsoft's guide to cloud data management

Mike Flasko Vice President and General Manager, Data Governance and Privacy Platform
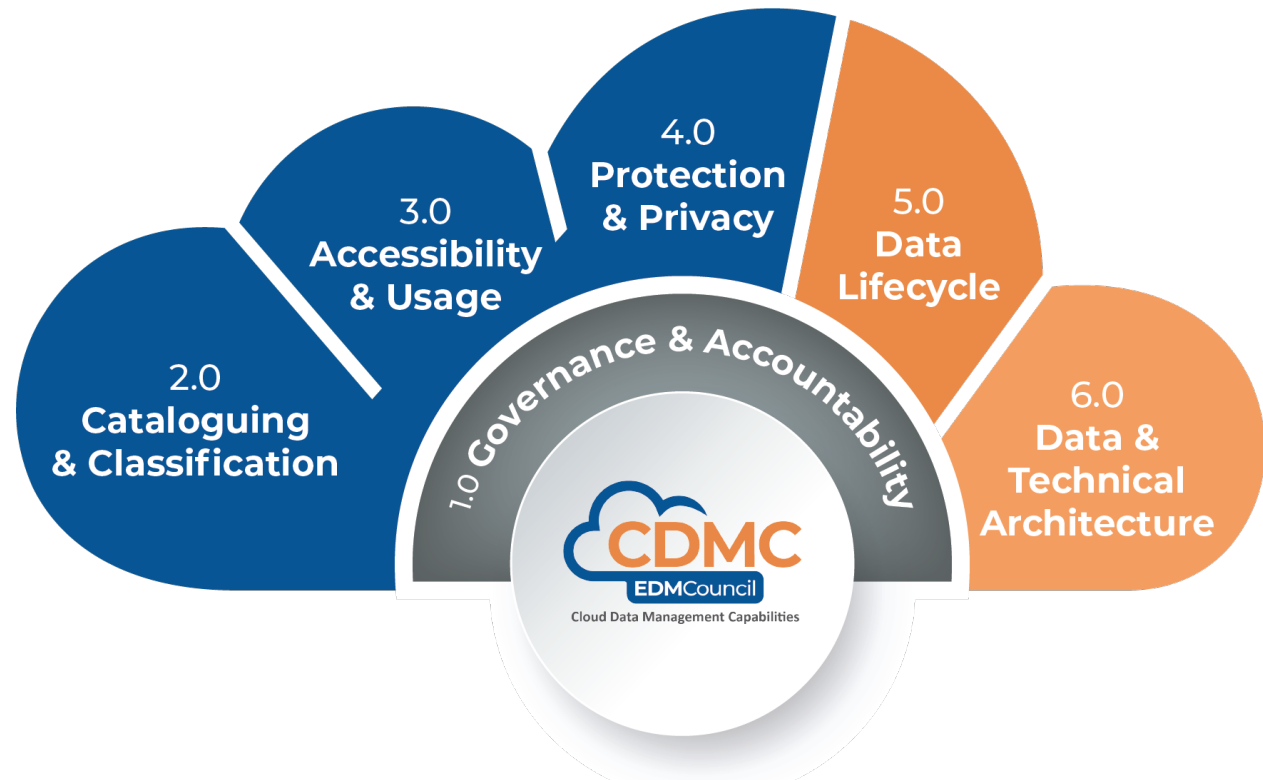
April 24, 2023

Share ⌄

https://www.microsoft.com/en-us/security/blog/2023/04/24/getting-started-with-the-cdmc-framework-microsofts-guide-to-cloud-data-management/

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350+ Member Firms
Cross-industry, including Regulators

25,000+ Professionals

Worldwide
Americas, Europe, Africa, Asia, Australia

edmcouncil.org

EDMCouncil

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Global Advocates for Data & Analytics Management

The leading global trade association providing best practices, standards and education to data and business professionals in our data-driven world.

What we do

TODAY'S HIGHLIGHTS   See all

Bank of Valletta becomes the newest member to join the EDM Council
NEW MEMBERS

EDM Council welcomes Webber Wentzel as its newest member
NEW MEMBERS

Lion Group joins EDM Council as its newest member
NEW MEMBERS

Join a vibrant community of **25,000+** business leaders, CDOs, and data and analytics professionals across all industries.

Bank of England   NOVARTIS   HSBC   verizon   Schneider Electric   Microsoft   Google   AEGON

Explore membership   **See all 350+ member organizations**

DCAM   CDMC EDMCouncil   Data ROI EDMCouncil   ESG EDMCouncil   Open Knowledge Graph INNOVATION LAB   elc eLearningCurve