EDM Webinar 🖭

Reimagining Data Governance in the Cloud

A conversation with



Oli Bage Head of Architecture, **Data & Analytics** LSEG



Jen Code **Principal Cloud Governance** AWS



Mojgan Ahmadi **Principal Solutions Architect** AWS



Christopher Glover Field CTO BigID













Moderated by **Mike Meriton** Co-Founder & COO, 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)





Today's panel



Mike Meriton

Co-Founder & COO

EDM Council



Oli Bage

Head of Architecture,

Data & Analytics

LSEG



Jen Code Principal Cloud Governance AWS

Mojgan Ahmadi

Principal Solutions

Architect

AWS



Christopher Glover Field CTO BigID









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Customer Need

Cloud Data Management Capability (CDMC)

CDMC Working Group



Cloud Challenges



93% of firms use 2 or more cloud providers*



CDMC Group Objectives

- Define consistent best practices for a hybrid-cloud world
- 2. Align key cloud data controls to meet regulatory obligations for Sensitive Data
- 3. Accelerate Cloud Adoption with comprehensive framework





EDMCounci

Cloud Data Management Capability

CDMC: Industry Engagement

70+ Leading firms and 226 participants actively participating since **May 2020**





EDMCouncil

Cloud & Technology Provider Certification



data.world

Regulatory Engagement



- US: Federal Reserve, OCC, FDIC, NCUA, NAIC
- Canada: OSFI, BoC, CDIC
- UK: BoE, FCA, IOC
- EU: EBA, ECB, DORA Act
- Germany: BaFin
- Swiss: FinMA
- Japan: FSA
- Australia: APRA
- Singapore: MAS
- India: RBI, SEBI
- Africa/Middle East regulators
- Others

CDMC Working Group Publication on track for <u>Q3 2021</u>

PRIVITAR

Go-to-market Support



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

2H 2021 – 1H 2022 Other Industries



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

CDMC Capabilities: Requirements & Automated Controls

Component		Capability	Sub-Capability	CDMC Automation Checklist (DRAFT)
	Theres	1.1 The Cloud Data Management business case is defined and measurable	 1.1.1 Cloud data management business cases are governed and syndicated 1.1.2 Cloud data management business cases are defined and include a value realization framework 	
1. Governance	Ĩ	1.2 Data ownership established for both migrated & cloud-generated data	1.2.1 Data Owner roles and responsibilities are defined and agreed1.2.2 Data ownership is established in the Cloud	Ownership field required for specified classifications (eg PII, MNPI, ISC=HR C)
& Accountability		 1.3 Data sourcing and consumption are governed and supported by automation 1.4 Data Sovereignty and Cross-Border Data Movement 	 1.3.1 Data sourcing is managed and authorized 1.3.2 Data consumption is governed and supported by automation 1.4.1 Jurisdictional location of data is tracked and reported 1.4.2 Data Sovereignty and Cross-Border Data movement risks are mitigated 	 Authorisation field required on cataloged data assets for specified classifications (eg PII, MNPI, ISC=HR C)
2. Data Cataloguing & Classification	FIPI CO	are actively managed 2.1 Data catalogues are implemented, used and interoperable	 2.1.1 Data cataloguing is defined, scoped and actively used 2.1.2 Metadata is discoverable, enriched, managed and exposed in Data Catalogues 2.1.3 Data catalogues are interoperable across multi and hybrid cloud environments 	Auto Cataloguing Supported
	- <u>5</u>	2.2 Data classifications are defined and used	2.2.1 Data classifications are defined and approved2.2.2 Data classifications are applied and actively used	 Auto Classification Supported Personal Information auto-discovery ISC auto-discovery (HR C IUO P) MNPI auto-discovery Client Information auto-discovery Additional classifications
3. Accessibility & Usage	R	3.1 Data entitlements are managed, enforced and tracked	3.1.1 Data entitlement rights and obligations are captured as metadata3.1.2 Data entitlement rights are enforced3.1.3 Enforcement of data entitlement rights is evidenced	 Entitlements automatically restricted to creator & owner for sensitive data (ISC=HR C IUO) Access tracked for all sensitive data (ISC=HR C IUO)
	?	3.2 Ethical access, use, and outcomes of data are managed	3.2.1 Data Ethics organization structures are established3.2.2 Data Ethics processes are operational	 Purpose required for all DSAs for all PII & sensitive data (ISC=HR C IUO)
4. Protection & Privacy	<u> </u>	4.1 Data is secured, and controls are evidenced	 4.1.1 Encryption policies are defined and enforced for data at rest, in motion, and in use 4.1.2 Implementation of data security controls is evidenced 4.1.3 Data obfuscation techniques are defined, scoped and applied 4.1.4 A Data Loss Prevention regime is in place 	 Security controls and DLP are automatically enabled for all sensitive data (ISC=HR C IUO) Security control evidence is sent to Catalog for all sensitive data
		4.2 A data privacy framework is defined and operational	4.2.1 A data privacy framework is defined and agreed4.2.2 The data privacy framework is operational	 Recommended data privacy framework workflows (eg jurisdictionally aware PIAs) are automatically triggered for all personal data
5. Data Lifecycle		5.1 Data quality is managed	 5.1.1 Data Quality rules management is established 5.1.2 Data Quality measurement is established and operational 5.1.3 Data Quality metrics reporting is established and operational 5.1.4 Data Quality issue management is established and operational 	 Data Quality metrics information required for specified classifications (eg PII, MNPI, ISC=HR C)
		5.2 The data lifecycle is planned and managed	5.2.1 Data archiving and purging are managed 5.2.2 TBA	Data meeting specific retention schedule classifications is automatically retained, archived and purged
6. Data & Technical		6.1 Data provenance and lineage are understood	6.1.1 Multi-environment lineage discovery is automated6.1.2 Data provenance tracking and change management6.1.3 Data lineage reporting and visualization	 Provenance information required for specified classifications (eg PII, MNPI, ISC=HR C)
Architecture	OB \$	6.2 Technical design principles are established and applied	 6.2.1 Backups and point-in-time recovery are supported 6.2.2 Optimization of cloud use and cost efficiency is facilitated 6.2.3 Portability & exit planning are supported 6.2.4 Principles for data availability and resilience are established and applied 	 Well architected framework evaluated metrics Costs directly associated with managing data assets are available to view by Data Owners in the catalog

Cloud Data Management Capabilities (CDMC) 14 Key Controls for Managing Data Risk



Sensitive Data includes classifications such as:

Personal Information (PI) / Sensitive Personal Data

Personally Identifiable Information (PII)

Material Non-Public Information (MNPI)

Client Identifiable Information

CDMC Regulatory Engagement Update



•Objective

- Engage Global Regulators for CDMC awareness, engagement and feedback
- Key Regulatory Updates
 - Formed CDMC Regulatory Engagement Committee
 - Significant Momentum in Engaging Regulators
- Completed 3 Initial CDMC Regulatory Briefings
 - US Federal Reserve Board
 - Bank of England
 - APRA (Australia)
 - OSFI (Canada)
 - ICO (Information Commissions Office UK)
- Upcoming Initial CDMC Regulatory Briefings
 - African Regulators (20) Cloud Symposium (July)
 - 2nd annual meeting hosted by Standard Bank
- Scheduling CDMC Deeper Dive Sessions
 - Bank of England
 - Federal Reserve Board (potential OCC addition)
 - APRA
- Additional Regulatory Outreach support from EDMC CDMC Partners
 - IBM/Promontory, PwC, UBS, Standard Bank, others...



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Regulatory Body Outreach Country		Status	1st Session	Deep Dive 2nd Session	Next Date	Company	Contacted By
Hank of England III.	G	In Process	Mar 94	Scheduled	Apr 22	LDM Council	Jilottega
occ as	្ណ	In Process	Apr 30	Scheduled	Apr 90	Promontory/IBM	John Asprey
Federal Reserve Board 00	2.6	In Process	Mar 29	Scheduled	Λμι 26	EDM Council	J Bollega
OSEI (Office of Superintendent of Einancial Institutions)	G	In Process				EDM Council	J Battega
APRA (Australian Prudential Regulatory Authority)	G	In Process	Apr 14	Scheduling		PwC	Jon Benson
FCA (Financial Conduct Authority)	G	In Process				IBM	S Mortensen
ESMA (European Securities and Markets Authority)	· 🞧	In Process				Fromontory/IBM	John Apprey
erre III	Q	In Process					
Hong Kong Monetary Authority Trans Kong	G	In Process			Αμπ 25	Standard Chartered	Sebastian Wedeniwski
Middle East Regulatory Authorities	G	In Process			Apr 25	Standard Chortered	Sebaatian Wedeniwski
African Continent Regulators (20) 10000	G	In Process	Apr 10	Scheduled	Jul 13	Standard Bank Group	Sibusian Ngubeni
ICO (Information Commissions Office) UK	Q	In Process	Apr 30	Scheduled	Apr 90	Promontory/IBM	John Asprey
ECB (European Central Bank)	ിപ്പ	Follow-up Needed				EDM Council	J Bollega
BaEin (Federal Financii Supervisory Authority)	ρ					Deutsche Bank	John Neasham
MAS (Monetary Authority of Singapore)	Q					FDM Council	J Rottega
EBA (European Banking Authority)	Q						
NIST (National Institute of Standards and Tech)	Ω						
SEC (U.S. Securities and Exchange Commission)	Q					IDM	N/A
Additional US Regulatory Bodies	Q					Citi	Linda Powell
FINRA (Financial Industry Regulatory Authority)	ρ					IBM	N/A
NCUA (National Credit Union Association	Ω						
FinMA (Financial Market Supervisory Authority)	G	Initial Meeting				UBS	C Tummers

CDMC Deliverables Availability



• July 2021: 14 CDMC Key Controls & Automations

First CDMC Industry Deliverable published 7 July 2021 Auditable, evidence-based Key CDMC Controls & Automations for managing and protecting sensitive data 20-page document Summarizes and elaborates on key controls in Framework

DOWNLOAD 14 CMDC KEY CONTROLS:

https://edmcouncil.org/page/cdmc-14-key-controls-and-automation

• <u>September 2021</u>: Complete CDMC Framework

Comprehensive 150+ page document 6 Components, 14 capabilities, 37 sub-capabilities Incorporates the 14 Key Controls & Automations Availabliity of 2-day training course Other Online Digital Support tools



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CDMC: Accelerating Trusted Cloud Adoption



CDMC Industry Objective: Build Trust, Confidence, and Dependability for Cloud Adoption

Companies

CDMC structured framework of auditable Cloud processes and controls – especially for sensitive data

Cloud Service Providers (CSP)

CDMC requirements and controls can be automated into CSP platforms which accelerates adoption and provides market confidence

Application, Technology & Data Providers

Incorporates certified CDMC capabilities and controls into services and solutions to ensure high degree of reliability and operational effectiveness

Consultants & Systems Integrators (SI)

CDMC enables training & assessments, gap analysis, strategy development, and execution services for end clients adopting cloud

Regulators

CDMC provides industry guidance for auditing and validating key cloud controls, especially for sensitive data

Cloud Service Provider Perspective

Cloud Data Management Capabilities (CDMC) 14 Key Controls for Managing Data Risk

Control

Sensitive Data includes classifications such as:

- · Personal Information (PI) / Sensitive Personal Data
- · Personally Identifiable Information (PII)
- · 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



Technology Vendor Perspective

Cloud Data Management Capabilities (CDMC) 14 Key Controls for Managing Data Risk



Creating Consistent Data Capabilities across Environments

- Design for Privacy, Security & Governance
- Must span all clouds
- Enforce consistency
- Minimization principle
- Resilience
- Diverse controls for different actions



Consistent Data Capabilities





Questions?



EDM Webinar 💽

Data Management Reimagined

Extensible, Open Platform for Data Visibility & Control in Privacy, Security & Governance











FOR MORE INFORMATION:

BigID

https://bigid.com/contact/ info@bigid.com















