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2:00 PM – 2:20 PM
Data Management – A Foundational Pillar for Data Modernization, Data Literacy, Data Sharing, and Analytics/AI

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Abstract:
The Department of Defense operates in a highly complex data landscape with zettabytes of data residing in hundreds if not thousands of disparate data sources spread across an on-premises, hybrid and multi-cloud environment. Data management is a foundational pillar for overcoming data silos, improving data literacy (understanding of data), fostering data collaboration and enabling data integrity at scale. Moreover, it is critical for implementing the Federal Data Strategy, driving successful cloud migration and data modernization initiatives as well as democratizing the use of high quality and trustworthy data that is easily discoverable, certified for use and fully traceable for analytics and AI use.

During this presentation, a domain expert in data management will share best practices for building a comprehensive data management strategy and leveraging data cataloging, data governance, data quality and privacy to enable and support mission-critical use cases. This interactive discussion will cover key topics that will aim to address:

- How to break down data silos by capturing, reconciling and managing metadata (data about your data) for intra and cross-agency use
- Create a unified view of data assets without moving the data
- Empower data citizens (data producers and consumers of data) to easily discover, understand and collaborate with data
- Leverage data cataloging to speed analytics, AI governance and AI model building
- How to implement access to trusted data at scale
- How to expedite cloud data migration with end-to-end data lineage and impact analysis by prioritizing datasets for migration, understanding impact of migration on upstream and downstream systems, etc.
- Understand the relationship between physical and logical data assets and gain visibility into the lineage (provenance) of data and systems
- Enable adaptive data governance and analytics including understanding the policy implications against all assets individually and in aggregate
- Implement comprehensive data privacy policies to prevent unintended release and disclosure of data as well as easily identify, classify and protect sensitive data
- Leverage granular privilege management (identity, attributes, permissions, etc.) to govern the access to, use of, and disposition of data
- Enable comprehensive security and data classification such as creating customizable classifications, record management, etc. in accordance with DoD standards
- How to scale data quality across large and diverse databases, files, streaming data, data lakes and data warehouses
- Real-world use cases from across government and commercial enterprises