Enable the Adoption of Digital Business Capabilities Using Cloud-based Technologies

The Cloud Adoption (CA) Center of Excellence (CoE) facilitates successful integration of cloud services by helping agencies select and design the right migration path. To support the implementation process, the Cloud Adoption team has developed a set of services based on best practices and successful use cases, both in the commercial and government sectors.

**OVERVIEW**

There isn't a one-size-fits-all cloud-migration strategy. With the right plan, agencies can reduce the risk, cost and time involved in addressing specific challenges and complying with business requirements. To simplify and speed up the introduction of cloud-based solutions to the existing enterprise environment, the CA CoE team crafts a customized migration strategy. First steps include reviewing existing sustainable cloud-operating models to help agencies find the right fit when choosing an industry partner.

**CASE STUDIES**

- **Office of Personnel Management**
  Supported OPM in their efforts to establish a Data-as-a-Service framework to enable modernization effort across the agency and assisted them in procuring and implementing disaster recovery infrastructure to support mission continuity.

- **Department of Agriculture**
  Established an enterprise level cloud organization, Cloud Platform Service; which centralized core cloud capabilities to provide consultative and technical services to stakeholders across USDA.

- **Joint Artificial Intelligence Center**
  Developed a DevSecOps for AI/ML Best Practice Guide for cloud architecture, data ingestion, software development, and security for the DoD Joint Artificial Intelligence Center (JAIC) Joint Common Foundation (JCF).

- **Housing and Urban Development**
  Implemented a cloud and artificial intelligence/machine learning (AI/ML) Intelligent Data Extraction solution for HUD to extract structured data from paper case binders, comprised of over 100 million pages annually.

“We’re able to sprint in these areas and develop talent and expertise. Then when the CoEs move on, we have that institutional knowledge to continue on with our effort.”

— USDA Deputy Secretary Stephen Censky

“We appreciate the CoE’s commitment to creating a collaborative environment that enables solutions for broader AI governance, technology acquisition strategies, and scaling AI solutions through the Joint Common Foundation.”

— Lt Gen. John Shanahan, JAIC
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<th>SERVICE</th>
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| **Cloud Solution Architecture** | Develop best-in-class cloud strategies that allow agencies to build innovative, multi-cloud environments, and support sustainable growth in alignment with the Federal Cloud Smart Strategy and industry best practices. | • Cloud Architecture  
• Access to Multi-Cloud Environment(s)  
• Identity and Access Management  
• Trusted Internet Connection/Networking  
• DevSecOps Reference and Design Architecture |
| and DevSecOps Support         |                                                                                                                                                                                                             |                                                                                                     |
| **Cybersecurity**             | Provide innovative security solutions for new and existing cloud deployments, optimize and accelerate ATO timelines by aligning Network and Security Operations to provide credible, risk-informed decision making, and analyze and assess Security Operations capabilities for efficacy based on demonstrated successful applications across government. | • DevSecOps and AI/MLOps Security  
• Security Dashboarding and Reporting  
• Agile Authority to Operate (ATO)  
• Security Operations Maturity Mapping  
• "Anti-Audit" Assessments  
• Cyber Workforce Alignment  
• Innovation Roadmaps |
| **Cloud Acquisition Support** | Develop innovative solutions to assist with cloud acquisition strategy, grow and manage cloud-based contracts, SOW, and best practices.                                                                           | • Acquisition Strategy  
• Statement of Work Development  
• Contract Vehicles Analysis  
• Bid Evaluation Support |
| **Cloud Governance**          | Bring approaches from successful cloud governing models to establish oversight of the program by leveraging automation, establishing a strategic vision and creating a sustainable cloud-operating model. | • Cloud Management Platform  
• Cloud Operating Model  
• Compliance Automation  
• Provisioning/Orchestration  
• Budget Enforcement  
• Architectural Standards  
• Cloud Vision and Strategy |
| **Migration Planning Support** | Define a project plan with validated business, technical, cybersecurity requirements, develop comprehensive and sequenced migration roadmap, and migration strategies and guardrails to minimize risk, cost, and time to completion. | • Application Rationalization  
• Reporting Workshop  
• Inventory Analysis  
• Dependency Analysis  
• Technical Feasibility  
• Cost Estimation and Sizing |
| **Business Applications and Digital Capabilities** | Implement modern capabilities such as Forms-as-a-Service, Intelligent Data Extraction, and Electronic Records Management to provide effective and efficient business tools. | • Cloud-based PaaS and SaaS Capability Implementation  
• Integration with existing applications and legacy systems  
• Compliance with 21st Century IDEA, ESIGN Act, and NARA |