



DAF's Cloud Journey

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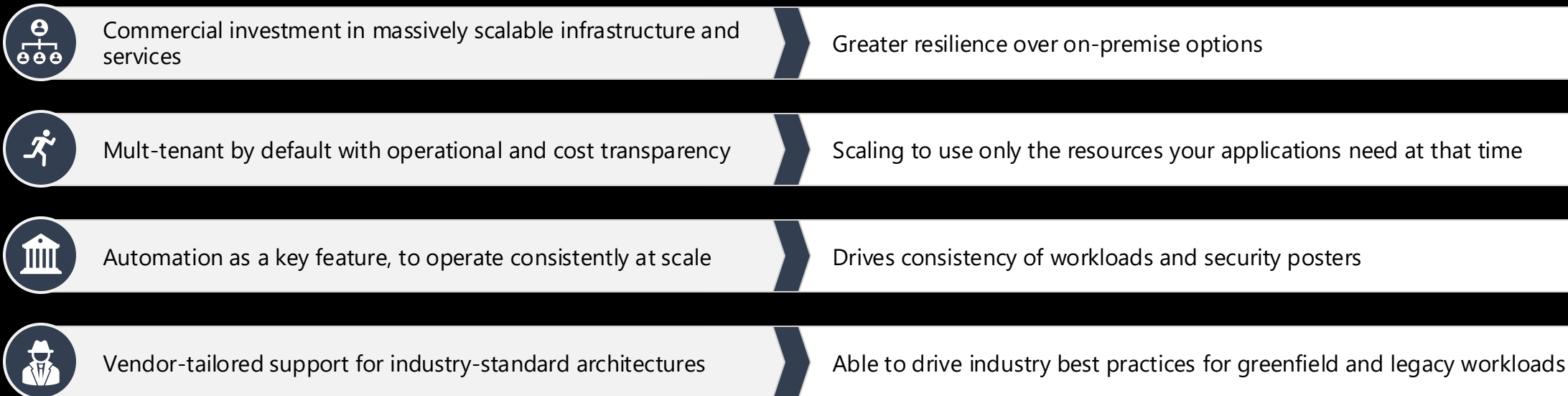
Introduction to DAF's Cloud Journey | Setting the Stage



To understand the importance of cloud computing in enhancing data management, security, and operational excellence for DAF, it's important to first understand the cloud and its key drivers for adoption.

HOW DOES CLOUD WORK?

WHY IS CLOUD IMPORTANT?



DAF'S Cloud Strategic Focus Areas | The DAF's cloud evolution requires several discrete objectives across the Department over the next decade.

1

Accelerate Cloud Adoption

2

Mature Hybrid & Edge
Capabilities

3

Enable Access to DAF Data

4

Educate the Workforce

DAF's Cloud Journey | Where Are We Now?



As key drivers for cloud adoption across the DoD and the DAF continue to evolve, various cloud initiatives and solutions have proven to be a huge success rising to meet urgency for cloud adoption.

EXISTING DOD CLOUD PROGRAMS AND INITIATIVES | The key efforts across the DoD driving cloud adoption:



DOD-Wide Cloud Initiative



cArmy General Purpose Cloud Initiative



Navy Neptune Cloud Portal Initiative

DAF'S PROGRESS TO DATE:



CLOUD ONE



CLOUD WORKS

PROGRESS HIGHLIGHTS	146 DAF Mission Systems migrated to production, 59 in Dev Zone - Integrated AWS IL Cross Domain Solution - Modernization via Swift Shield	- C2E Access to Commercial Cloud & Classified DevOps P1 Partner 112 tenants across 3 COCOMS, 3 services, and multiple agencies with over \$100M of throughput a year growing exponentially
NEXT STEPS / TIMELINES	- C1N Reseller under evaluation - C1N EAMM effort anticipated release Q4 FY24 - C1N ACSS effort anticipated release Q1 FY25	- Fused Title 10 and Title 50 requirements into single infrastructure - Cloud broker for both C2E and JWCC - Support for C3BM Program Office
BIG ROCKS	>2,000 DAF Mission Systems - Multi-region Common Services - Swift Shield Phase II	- Cloud Provider capability replication across east and west coast regions - Iron Bank at TS/SCI - SOC as a Service

DAF's Cloud Journey | Drawing the Finish Line

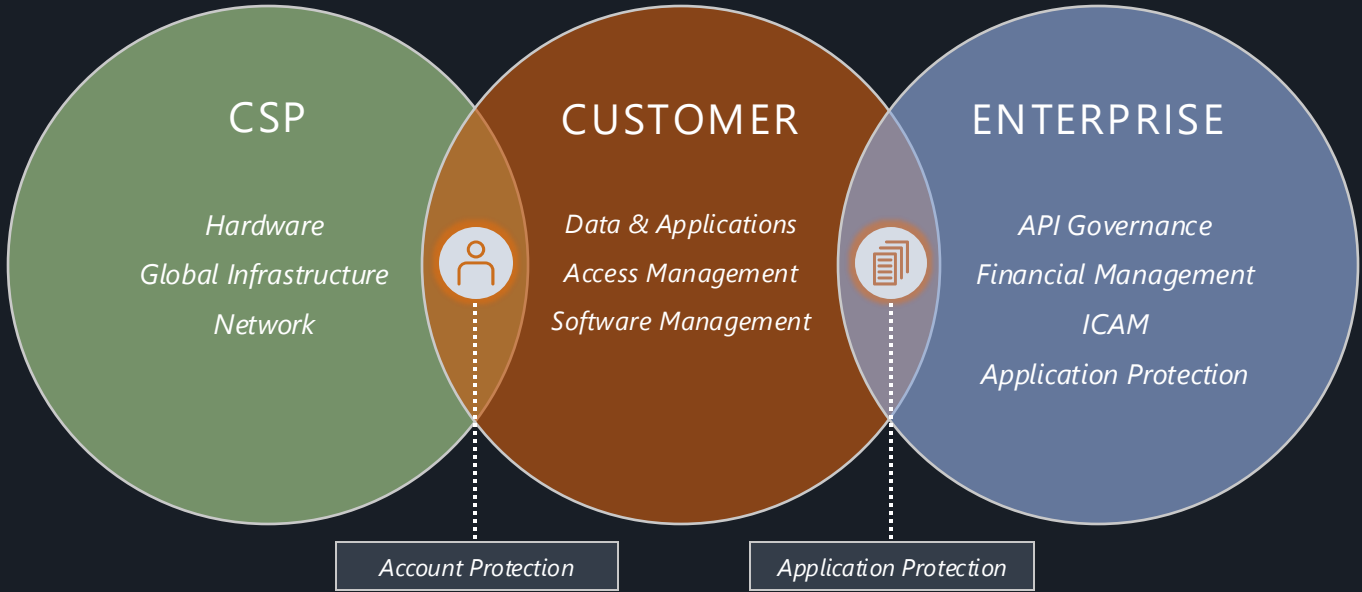


In order to accelerate Cloud adoption, the DAF must design Cloud Infrastructure that users want to adopt. By clearly defining the ideal the DAF is racing towards, it can better track progress and define next steps to reoptimize for GPC at speed.

DAF'S CLOUD GUIDING PRINCIPLES:

WARFIGHTER FOCUSED	GUARDRAILS & ENTERPRISE COMMON SERVICES
MULTI-CLOUD	ALIGNMENT WITH ZERO TRUST PRINCIPLES
CLOUD FRONT DOOR AND CLOUD CHOICE	FINANCIAL MANAGEMENT & RESOURCE PLANNING
SHIFT TOWARDS MANAGED INFRASTRUCTURE	STREAMLINED AUTHORIZATION
MODERNIZATION	ENTERPRISE PURCHASING POWER
CONTINUOUS PROCESS IMPROVEMENT	DEVELOP LOW, DEPLOY HIGH

DAF'S CLOUD SHARED RESPONSIBILITY MODEL:



WHAT DOES RIGHT-SIZING LOOK LIKE?

CLOUD DESTINIES	ENTERPRISE SUPPORT	GUARDRAILS TRADE-OFF
What are the offerings needed to support migration for the different types of applications?	To what extent should applications rely on the enterprise for security and configuration management?	How can the enterprise establish a security safety net without restricting flexibility?

DAF's Cloud Journey | Roadblocks and Accelerating Progress



Despite the successes of moving over 100 applications to the cloud, the DAF's cloud ecosystem requires continuous improvement and maturation. Barriers to adoption of cloud services include application architecture and readiness, financial management and planning, and differences between cloud offerings and common services at each classification level.

EXISTING CHALLENGES | The DoD faces the following roadblocks to accelerating cloud adoption:



COMPLEXITY

C1 forces technical debt retirement, integration with enterprise services, and ATO modifications as a part of existing cloud migration.



COST

Cloud migration is often an additional bill, and often costs more than low-quality on-premise options.



PLANNING

An inventory gap presents challenges in scoping the effort and cost projection remains a headwind.



READINESS

Government workforces, applications, and contractor support are not ready to use cloud.

Accelerating Progress | While the DoD faces some roadblocks to accelerating cloud adoption, the DAF has tools at its disposal to overcome them:



INVENTORY APPS & CUSTOMERS

Comprehensive inventory of applications and potential cloud consumers



ON PREM STANDARDIZATION

Centralize all Compute & Store services and ensure cloud portability by FY27



GUIDANCE & POLICY

Develop POM Guidance for FY26 and explore policy levers to alleviate challenges



MIGRATION FACILITATION

Provide more accessible paths to the cloud including digital platforms and app rehosting



IMPACT PRIORITIZATION

White glove support for weapon systems and functional portfolios



WORKFORCE

Digital University training better equips the workforce to accelerate cloud adoption

DAF's Cloud Journey | DAF's Way Forward



The DAF's cloud evolution requires several discrete objectives across the Department over the next decade. It is the intent of the DAF Office of the CIO to drive these objectives through action and delivery.

1 Accelerate Cloud Adoption

The DAF must meticulously plan resources, dedicate manpower, and align with best practices to expand cloud adoption and meet mission resilience and automation needs through mature enterprise cloud services

Accelerate Cloud Adoption | DAF's immediate priorities over the next 12 months:



CLOUD INFRASTRUCTURE AND SERVICES EXPANSION

- Expand Cloud One Application Pipeline and Service Offering
- Unify Enterprise cloud offerings between Cloud One and DAF CW
- Provide managed operational environment for Platform One to drive service inventory adoption



GOVERNANCE & STANDARDS

- Develop costing guidance for cloud migration and operations
- Develop guidance for refactoring vs. rehosting vs SaaS
- Build a DAF Application Inventory to better govern enterprise service adoption
- Create a Governance Process for Cloud Onboarding



SECURITY & COMPLIANCE

- Enhance continuous monitoring of cloud workloads for security and risk management
- Instill cultural awareness of cloud patterns for ATO acceleration



FINANCIAL MANAGEMENT & WORKFORCE

- Unify cloud purchasing with Cloud Broker Enterprise Vehicle
- Establish an Enterprise Cloud FinOps Effort for optimizing utilization

Closing Remarks | DAF's Long-Term Cloud Priorities



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DAF'S Cloud Strategic Focus Areas | The DAF's cloud evolution requires several discrete objectives across the Department over the next decade.

2

Mature Hybrid & Edge Capabilities

Data access and compute resources requires a cloud approach that integrates on-premises and tactical edge capabilities, infusing cloud in traditional data center operations to mature hybrid environments.

3

Enable Access to DAF Data

The DAF must evolve its data architecture to a distributed, API-first, and cloud-native model to meet warfighter and coalition partner demands for access, speed, quality, and security without altering data storage.

4

Educate the Workforce

The DAF must educate its workforce on cloud and digital transformation concepts, partnering with major vendors and educational platforms to attract, build, and retain talent for global competition.

Key Efforts In Support Of The Cloud Strategic Focus Areas | DAF's remaining priorities over the next 3-5 years:



CLOUD INFRASTRUCTURE AND SERVICES EXPANSION

- Standardize on-premise compute and store to be cloud connected by 2030
- Publish a Reference Architecture for multi-tenant edge computing
- Develop enterprise cloud connectivity requirements using ABMS deployable DI architecture



GOVERNANCE & STANDARDS

- Develop tactical edge application standards for management, portability, security, and enterprise service requirements
- Continue to launch DAF API Services with DAF API Reference Architecture 2.0



SECURITY & COMPLIANCE

- Establish DAF metadata tagging standards aligning to ZT access control strategy
- Develop a cloud-connected MPE using SABRE to accelerate multilateral network consolidation



FINANCIAL MANAGEMENT & WORKFORCE

- Resource an office for training and upskilling workforce in modern IT concepts
- Deploy cloud trainings through online digital learning platforms
- Develop & launch internal training on DAF Enterprise cloud & data offerings



Thanks for listening...

QUESTIONS?