



Case Study

Platform One-Based Development Enclave & DevSecOps Software Factory Flexible, Cost-Effective, and Fully DoD-Compliant Development Environments

Data Center Services (DCS)

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Executive Summary

DCS offers three tailored options for standing up **Platform One-aligned development enclaves** in Microsoft Azure Government Cloud. These environments include hardened infrastructure, our open-source Iron Bank-emulating CI/CD pipeline, and full RMF compliance support.

Whether customers need a dedicated high-security enclave, a lower-cost shared model, or a fully customized build, DCS delivers rapid, compliant development environments that accelerate secure software delivery.

Key Results:

- Proven open-source CI/CD pipeline used successfully for IronBank-Hardened APISIX submission
- Multiple deployment models to fit different security and budget requirements
- Full alignment with DoD Platform One and Big Bang patterns

The Challenge

DoD programs and commercial vendors need modern, secure development environments that follow Platform One principles, but often face:

- High costs and long lead times for dedicated environments
- Complex compliance and hardening requirements
- Limited options between “all-in” dedicated vs. overly shared models
- Difficulty integrating Iron Bank-compliant pipelines without expensive vendor tools

The DCS Solution

DCS provides **three flexible deployment options** for Platform One-based Development Enclaves:

Option #1 – Dedicated “Big Bang” Environment (IL2 Pay-As-You-Go)

DCS maintains a fully DoD-compliant Microsoft Azure Government Cloud Impact Level 2 (IL2) environment.

- Customers receive a **dedicated development enclave** per project using the Platform One “Big Bang” model.
- Ideal for programs requiring maximum isolation and control.

- Includes full RMF documentation support and direct integration with our Iron Bank-emulating CI/CD pipeline.

Option #2 – Shared Resource “Party Bus” Model (Lower Cost)

A cost-optimized shared tenancy model inspired by Platform One’s “Party Bus” concept.

- Multiple customers share hardened base infrastructure while maintaining logical separation.
- Significantly lower cost than dedicated environments.
- Still includes access to DCS’s open-source DevSecOps pipeline and security tooling.

Option #3 – Customer-Specific Custom Build (Most Flexible)

DCS works directly with the customer to build a custom development enclave using:

- DCS proprietary build scripts and Infrastructure as Code (IaC)
- Our proven open-source Iron Bank-compliant CI/CD pipeline
- Customer-chosen security and compliance posture (IL2 through IL5/6)
- Full knowledge transfer so the customer can maintain and extend the environment.

All options include:

- Automated CI/CD pipeline that emulates Iron Bank scanning and hardening
- SBOM generation, vulnerability scanning, and policy enforcement
- Integration with cArmy, Azure GovCloud, and DISA SCCA patterns
- RMF support and eMASS-ready artifacts

Implementation Highlights

- Rapid deployment using proven automation scripts (days instead of months)
- Successful real-world use building and submitting the IronBank-Hardened APISIX container
- Full compatibility with Big Bang, Party Bus, and custom patterns
- Secure by design with hardened base images and zero-trust principles

Results & Benefits

- **Speed:** Development enclaves stood up in weeks, not months
- **Cost Flexibility:** Three pricing models to match program budgets
- **Compliance:** Iron Bank-ready pipelines and RMF-aligned security controls
- **Reusability:** Customers can take ownership of the environment and pipeline
- **Proven:** Directly enabled successful Iron Bank submission for hardened containers

Why DCS?

Led by Robert Hermanns and backed by extensive hands-on experience with AFMIS Azure IL4 and cArmy migrations, DCS bridges Platform One best practices with practical, affordable implementation options.

Next Steps

Need a compliant development enclave and Iron Bank-ready pipeline?
Contact DCS to discuss which of the three options best fits your program.

Contact DCS

6000 Technology Blvd, Sandston, VA 23150

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Data Center Services (DCS) — Secure DoD Cloud. Hardened at Speed. Mission Ready.