# Deliver your Mission with Efficiency, Agility and Security via the Mobile Private Cloud

## Current Challenges to Service Delivery

Across the Federal government, Agency CIOs are looking to meet their mission and deliver their business services in the most cost-effective and energy efficient means possible, without compromising on security or performance. Unfortunately, with excessive power consumption and the erratic and inefficient allocation of computing resources, the legacy environments currently supporting these business services too frequently stand in their way.

CIOs have been tasked to move their business services to the Cloud—the opportunities afforded by applying the latest and most innovative technologies are obvious: reduced costs and energy use through the efficient and elastic allocation of resources. However, several barriers to Cloud adoption remain, including the cost of migration, risk of degraded performance, and, of course, the ongoing challenge of maintaining the confidentiality, integrity and availability of critical agency data, leaving one large question in the mind of every CIO:

**How can I procure, implement and consume the enhanced capabilities of the Cloud without sending costs through the roof or compromising on quality, security, or performance?**

## Reaping the Benefits of a Mobile Private Cloud

By combining the most advanced and efficient hardware technology with CA AppLogic — CA Technologies cutting-edge cloud operating system — MicroTech has developed a rugged containerized platform called the MicroPodd that provides all the capabilities and characteristics of a private cloud solution as defined by NIST. MicroPodd can be rapidly deployed to both austere and non-austere environments to deliver IaaS, PaaS, or SaaS-based services while remaining inside established security boundaries. The MicroPodd provides initial capacity to "seed" the private cloud environment and includes tools to migrate service resources seamlessly from an existing data center to the private cloud solution. Following an initial set of migrations, legacy hardware can often be repurposed to expand the private cloud resource pool without incurring additional CAPEX.

**The end result: Critical mission services hosted in an agile, energy efficient, and secure private cloud.**

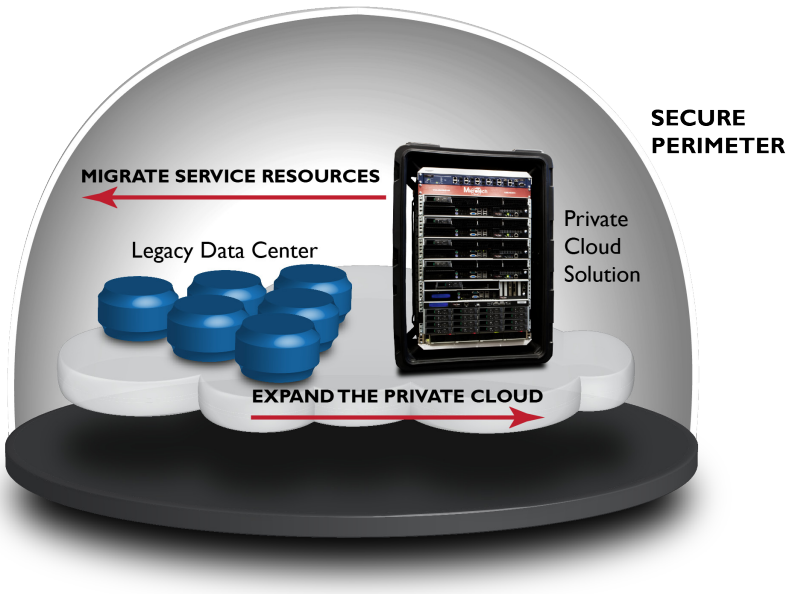
## Streamlining Procurement: Army Private Cloud (APC2) Contract

MicroTech has been selected as one of only four awardees of the Army Private Cloud (APC2) Mobile Suite 2 Indefinite Delivery Indefinite Quantity (IDIQ) contract. This $250 Million contract is available to all U.S. federal agencies or military services to assist them to reduce costs through server consolidation and updating and optimizing IT with fixed orvia Containerized mobile data centers.


**Procure the most innovative on-premise private cloud environment on the market to optimize IT service delivery and drive down costs without compromising security.**

## Cloud-based Hosting – Anything as a Service (XaaS)

The private cloud solution uses CA's turnkey cloud computing platform to compose, run, and scale virtually any x86-based application. It leverages advanced virtualization technologies to support service deployment based on existing operating systems, middleware and web applications. In fact, billions of lines of tried and true infrastructure software, middleware and application code can be used unaltered within the private cloud solution. The MicroPodd includes a user-facing self-service catalog with robust process automation and orchestration for completely hands free and repeatable cloud-based service delivery, and automation capabilities extend beyond the core solution to also manage external non-x86 resources.




## Managed and Secure

The user catalog of cloud provisioning and management processes automates the setup of the private cloud environment, including creation of virtual server instances, installation of operating systems, and the loading of applications. The solution can be preconfigured with templates for Windows, Linux and Solaris x86 operating systems, ready to use upon entering the vendor's license key. The embedded systems management tool monitors physical infrastructure, network connectivity and virtual servers, while a robust security stack performs essential identity, access, and data security management, and to maintain the tightest possible security for SaaS-based deployments, the solution natively supports application multi-tenancy all the way down to the underlying hardware.

## Cloud Seeding – Efficient and Automated Implementation

The MicroPodd is designed to streamline, automate, and accelerate the migration of existing physical or virtual x86-based assets to run as IaaS instances on the private cloud infrastructure. Additionally, following migration legacy hardware can be reclaimed and incorporated into the private cloud resource pool, providing additional cloud capacity and essentially converting the legacy data center into an agile and secure private cloud.

## Configurable to Customer Requirements

The core solution provides an agile and secure mobile private cloud platform, which can easily be extended to meet each customer's specific requirements. The possibilities are infinite, however some common customer use cases include:

- Data Center Consolidation and Optimization
- IaaS and SaaS-based Application Hosting
- Cloud Seeding and Orchestration (see above)
- Cloud Lifecycle Management
- Identity and Access Management
- Fault and Performance Monitoring
- Data Center Infrastructure Management
- ITIL Service Transition and Operation