



# Digital Modernization



## Our Approach

Both government and private organizations still face barriers to achieving maximum IT efficiency and security. For example, a slow migration process to the cloud, lingering technical debt, legacy business processes, and need for enhanced security all pose potential obstacles to a modern enterprise IT infrastructure.

At Leidos, we develop secure, mission focused solutions at scale to accelerate our customers' digital transformation objectives. We deliver resilient enterprise IT solutions and managed services that leverage trusted AI and full-spectrum cyber to increase efficiencies and decrease vulnerabilities in complex IT operations.

We also take a user-centric approach to digital modernization that focuses on the user's experience and mission's enterprise first, enabled by efficient IT operations and end-to-end security—while also leveraging automation and AI/ML efficiencies to create the best value.

Leidos's agile digital modernization experts accelerate mission transformation using customizable transformation roadmaps and repeatable processes, enabling customers to effectively use their resources and advance their mission.

## Proven Success

We help our customers achieve their missions and IT business goals by delivering purpose-built solutions with cybersecurity as a standard, efficient project delivery, and end-user satisfaction. Our user-centric approach to enterprise IT and digital modernization focuses on the user and the mission first and foremost while not losing sight of the IT backend.

- ▶ #1 Washington Technology Top 100 IT Contractors
- ▶ 1,000 Public/Private Cloud Migrations; 2000+ Applications in sustainment
- ▶ 3M+ users managed on a worldwide network
- ▶ 50 years experience serving the federal government
- ▶ Manage five of the Largest DoD Networks in the World
- ▶ Greater than 98% User Satisfaction in "as-a-service" delivery
- ▶ Currently operating 4 of the 5 Largest Federal Security Operations Centers

## Our Capabilities

The pace of technology and constantly evolving security threats require deliberate and proactive approaches to address mission challenges. At Leidos, we understand that digital modernization and transformation is a continuous process. We develop mission-focused solutions to expedite and improve critical decision-making processes to help maintain U.S competitive advantage.

We help your enterprise to become more efficient by drawing upon our expertise in cloud, automation, managed services, DevSecOps, continuous integration and delivery, and operations support at unprecedented scale. Currently, Leidos operates some of the largest Department of Defense networks and Security Operations Centers in the world and we leverage this experience to drive innovation and cutting-edge technologies into our customers' environments. We combine our reusable, repeatable, scalable production-ready offerings with our analytics expertise to continually monitor and act on technical and operational performance metrics, including service cost, quality, risk, and advanced cyber threats.

Our Digital Modernization capabilities include Application Modernization, Data Center Modernization, Multi-Cloud, Connected Digital Enterprise, Edge-to-Cloud, Mobility, Secure Development Operations, Zero Trust, and Cyber Resilience and Operations.

### APPLICATION MODERNIZATION

Digital transformation solutions are reliant upon modernizing legacy applications and IT infrastructure to advance the efficiency and effectiveness of any business. We help our customers transform their working practices, from handling culture change and agile coaching, to implementing the delivery of greater digital services through cloud, automation, and mobile.



## DATA CENTER MODERNIZATION

Today's data center consolidation efforts are less about centralizing equipment and more about modernizing how infrastructure is deployed. Federal agencies and other organizations are looking to "right-size" their data center and network footprints to reduce costs, improve cybersecurity, and simplify cloud, network, and application infrastructure management. Leidos has supported right-size initiatives across the globe in the most sensitive customer operating environments.

One way Leidos helps enterprises "right-size" is through the deployment of Infrastructure as Code (IaC). At its core, IaC allows software engineers to define our infrastructure and its configuration using the same development, configuration management, and test processes we use for developing our applications. Using IaC, our customers have achieved significant cost savings through reduced system administration staff requirements and more repeatable deployments. Our customers are also deploying into production on a more regular basis, as production deployments are low risk and have minimal impact to end users.

Aligning business objectives with a scalable consolidation and optimization roadmap is critical for operational success and effective portfolio management. In planning data center consolidation, an organization must first decide what needs to be consolidated and if the receiving site will be physical or virtual. Therefore, it is essential to accurately understand each site's IT assets, capacity demand and growth, efficiency, and physical infrastructure capabilities.

We will work with you to:

- ▶ Identify and assess your inventory
- ▶ Evaluate areas of consolidation
- ▶ Perform application rationalization
- ▶ Determine migration destination and method
- ▶ Plot portfolio management roadmap

When planning data center consolidation projects, we consider how best to:

- ▶ Minimize business and user impact related to service downtime, performance degradation, and User Access/User Interface to application systems
- ▶ Maximize Return on Investment (ROI) by documenting and analyzing data on existing operations, project cost, and projected and actual savings/profits
- ▶ Modernize IT infrastructure and technology to be current with state-of-the-art market solutions

## Data Center Modernization – Benefits

- Design/build to scale with the evolving technology landscape
- Consolidate the number of locations
- Modernize IT equipment
- Leverage cloud environments
- Reduce facilities, energy consumption, maintenance, and technology costs
- Advance agility and achieve greater efficiency
- Speed provisioning
- Enhance cybersecurity
- Improve service and availability through the use of ITIL and DCIM
- Improve disaster recovery (DR) and continuity of operation (COOP)

## CONNECTED DIGITAL ENTERPRISE

Physical boundaries no longer define today's workplace. As more and more users work remotely, the digital workplace focuses on leveraging technologies, high-speed networks, and rapid delivery capabilities to significantly improve IT delivery so that end-users can securely complete their missions wherever they are.

Each customer's workforce and mission is unique. Leidos develops custom, holistic solutions to apply the right technology to make the most significant impact. Our Digital Workplace team works with technology providers, original equipment manufacturers (OEMs), and a strategic supply chain to understand the new and emerging technologies available to enable a distributed workforce. We:

- ▶ Focus on solutions that enable our customers to do their jobs better, faster, and more efficiently
- ▶ Pair expertise with a deep understanding of our customers' missions, goals, and constraints to create a value-driven innovation system
- ▶ Pull from experience on more than 2,000 active programs to apply technologies we have seen first-hand enhance collaborations and enable an efficient Digital Workplace
- ▶ Maintain a continual focus on research and development to investigate the latest trends and more advanced technologies evolving the office of the future

## Connected Digital Enterprise – Features and Benefits

IT solutions that enable customers to focus on their mission, wherever their employees are located

Seamless, secure transitions among devices, workspaces, applications, and data

A holistic approach that brings the right technology to match customers' missions and goals

Increased collaboration across organizational and geographic boundaries

Data- and user-centric enterprise, creates connections across people and endpoints, no matter the device

Office of the Future environments that spur innovation and collaboration

Tailored, multi-channel support options to match a user's ideal consumption and empower users with individualized paths to solutions

Enhance cybersecurity

## EDGE-TO-CLOUD

Historically, for users in remote or disconnected environments, analyzing data to make mission-critical decisions took days or weeks. Now, with the Edge-to-Cloud ecosystem, real-time intelligence processing is possible. With our Edge-to-Cloud capability, analysis and decision making is moved to the edge where data is collected, reducing the time it takes to move from threat to mission decisions. Additionally, Leidos' Edge-to-Cloud architecture supports advanced capabilities, such as augmented and virtual reality, artificial intelligence, and machine learning, even in austere environments, to enable data exploitation and decreased time-to-value for mission critical information.

Leidos' FedRAMP-authorized In<sup>3</sup>Sight management platform monitors, manages, and optimizes environments spanning government-owned data centers, commercial data centers, and CSPs through a single pane of glass. When combined with Edge-to-Cloud, In<sup>3</sup>Sight provides a centralized monitoring and management platform for all assets, starting with the legacy data centers and commercial cloud infrastructure, and connecting to assets at the edge. In<sup>3</sup>Sight also incorporates data analytics capabilities where we have automated cloud provisioning and optimization through elasticity engineering to optimize compute and storage costs. Leveraging a predictive data analytics platform, In<sup>3</sup>Sight identifies performance issues throughout IT infrastructure and automates the creation of a ticket for root cause analysis and resolution before an unplanned IT incident even occurs.

## MULTI-CLOUD

Organizations require the speed and agility of cloud computing. Unleashing the potential of the cloud can create unique, innovative, and sustainable competitive advantages, no matter the market.

Our expert staff and real-world experience make Leidos the trusted partner for your multi-cloud initiatives.

We help our customers modernize their infrastructure and applications by leveraging cloud technologies, including developing a viable cloud adoption strategy, establishing a meaningful business case that ensures value and future benefit realization. Our comprehensive cloud services include:

- ▶ Multi-cloud strategy development
- ▶ Design and build
- ▶ Migration
- ▶ Security
- ▶ Automation
- ▶ Managed services
- ▶ Operations for public, private, or hybrid cloud environments
- ▶ Multi-cloud management & orchestration

Leidos' Cloud Factory leverages best practices from its 1901 Group subsidiary to use an "IT Factory" model of repeatable processes to assess, plan, migrate, manage, and secure applications and workloads from legacy to cloud. Our unique approach to your cloud journey applies technology and process automation to a set of repeatable and reusable services. Leidos uses its proven IT, cloud factories and fully-integrated service delivery platforms to provide our customers the flexibility of a menu of support models across the leading public and private cloud providers.

## Cloud – Benefits

Reduce infrastructure and operating costs

Optimize operating expenditures

Reduce capital expenditures

Increase and improve collaboration

Accelerate efficiency

Increase agility

Improve scalability

Reduce carbon footprint

Improve security with easy backup and recovery

Quick deployment

## MOBILITY

As we become a more distributed workforce, mobility is essential for secure, constant connectivity. Technology users now demand secure access to systems and networks from nearly anywhere. Additionally, as we become more mobile, enterprise IT must follow suit. Leidos helps customers develop a mobile-first architecture to manage the mobile devices and the security and infrastructure to make mission-critical systems available on the go.

Our expert software engineers can develop a secure, mobile environment with the necessary encryption, authentication, and data protection for your enterprise. We bring an in-depth understanding of endpoint device security paired with network security and IT delivery services to support the ongoing transition to a mobile workforce and deliver a comprehensive mobility solution.

Our mobility capabilities include:

- ▶ **Mobile Device Management** – No matter the device or carrier, we make mobility turnkey and cost-effective. We help manage fulfillment, upgrades, ongoing usage, optimization of carrier engagement, and billing so that users can focus on their tasks at hand
- ▶ **Service Delivery** – Service to mobile devices shouldn't get in the way of the mission. That's why we offer multi-channel, 24/7 support that matches a user's needs and extends productivity, security, and efficiency
- ▶ **Application Delivery** – Today's always-on workforce needs access to more than just email on mobile devices. We leverage evolving enterprise applications to create mobile-friendly solutions so that users have seamless, secure access to all necessary data to focus on their mission anytime and anywhere
- ▶ **Infrastructure & Security** – As a recognized leader in cybersecurity, we excel at visibility, management, and monitoring of mobile devices. Leidos helps the enterprise know where its mobile devices are, how they connect to the enterprise, and what type of work is being done with them. Not only does this bolster security and prevent data loss, but it also helps automate notifications and optimize usage based on geographic location

## Mobility – Features and Benefits

Extended productivity, security, and efficiency through mobile devices

Customer-specific assessment to build a mobile solution that balances an organization's needs for security and always-on access

Increased collaboration beyond the traditional office setting

Dynamic security solutions to incorporate geolocation, network, and device type into security settings

Combined expertise in cybersecurity and enterprise IT services to build holistic mobility solutions

## SECURE DEVELOPMENT OPERATIONS

SecDevOps allows the integration of software developers, cybersecurity engineers, and operation engineers to deliver high-quality, highly secure products rapidly. Leidos' SecDevOps capability provides an integrated and standard set of tools and methods that, reduce security risk while meeting business objectives of faster and more cost-effective project delivery. At Leidos, we empower developers and operations engineers to deliver innovative solutions through an "all things continuous" approach.

### Our SecDevOps capability provides:

- ▶ Increased efficiency in the reuse of artifacts, micro-services, and software capabilities
- ▶ Continuous integration and continuous delivery of secure software solutions
- ▶ Enable implementation of the Leidos Engineering Edge standard Agile processes and best practices
- ▶ Fully automate deployments with consistent, repeatable results, including immutable infrastructure and blue-green deployments using infrastructure as code-based deployment



## SecDevOps – Features

Self Service – easy setup through automation eliminating traditional pre- DevOps stove-piped development and IT environments

Highly available and resilient to failures; highly scalable with respect to project size and complexity

Reduce time spent on infrastructure through the automated configuration of project environments; product builds and execution

Infrastructure optimization to ensure the security, performance, and reliability of the SecDevOps operational environment

Faster time to ATO (authority to operate) - process changed from months to weeks and eliminates excessive documentation

Enables repeatable and consistent implementation of the Leidos Engineering Edge® standard processes

Infrastructure as Code

## SecDevOps – Benefits

No wait time and no middleman. Creates cost and schedule savings related to automation and rapid project startup

Practically eliminate downtime with implementation across multiple AWS availability zones and is readily adaptable to all project types, including large and/or highly complex projects

Cost-effective, consistent, reusable, increasing development and code efficiency, quality, and security, eliminating unnecessary infrastructure costs

Provides a secure and hardened environment (Securing for Success (S4S) & NIST SP 800-171), including hardened OS images (Corporate Information Security (CIS) L1 and L2). Provides continuous monitoring

Leidos Program proof point: 85% of your ATO controls are inherited, and 15% remaining are application-specific, not infrastructure

Reduces time to market and reduces cost through efficient process implementation. Mitigates risk

Consistent CM controlled deployments using immutable infrastructure resulting in no configuration drift between development and production and consistent, high-quality results

## ZERO TRUST SOLUTIONS

“Zero Trust” is a cybersecurity approach that moves defenses from static, network-based perimeters to focus on dynamic data from users, assets, and resources – in essence, it helps reduce the likelihood and impact of breaches by eliminating the concept of trust from an organization’s network architecture. Traditional cybersecurity practices focus on a “castle and moat” model, where security protocols concentrate on keeping threats out. Zero Trust assumes that networks are already breached and requires continuous security validation.

Leidos is evaluating and integrating the latest ZT solutions from our technology partners in our Zero Trust Proving Ground, where we prove out solutions prior to implementing them in customer environments to reduce technical risk.

Before an agency can create or adopt a plan to implement Zero Trust, it must first evaluate specific risks to the enterprise and the maturity of existing cyber defense capabilities.

The Leidos Zero Trust Readiness Level provides a comprehensive framework for understanding how specific capabilities and the features composing them contribute to cybersecurity readiness. Our ZTRL™ tools prioritize capability adoption by optimizing project planning based on cost, schedule, dependencies, and organizational risks and priorities.

A core tenet of Zero Trust is employing a dynamic, risk-based approach to access control. In order to increase the decision-making context across all available data and enable more dynamic, continuous validation, Leidos is building Policy Decision Point Core (PDP Core) which aggregates critical cybersecurity policy and data across zero trust pillars to produce compound confidence scores for users, endpoints, and specific requests. PDP Core can synthesize data across devices and architectural layers that don’t currently communicate in order to produce advanced, AI/ML powered analytics that drive real-time understanding and remediation of anomalous behaviors where appropriate.



## CYBER RESILIENCE + OPERATIONS

We design, build, deploy, and operate valuable assets – IT, data systems, networks, or platforms – for our customers. Using our cyber expertise, we continually enhance our techniques and processes to build systems that operate resiliently in the face of evolving cyber threats. We put hardware and software to the test – through penetration testing, reverse engineering, adversarial simulations, and assessments – to identify security gaps and develop the best solutions for our customers' systems. And we use intelligent automation and AI/ ML-driven analytics, combined with our experience in detecting and mitigating complex security breaches and threat actors, to deliver cyber solutions that protect and defend the nation's largest and most attacked mission-critical networks and cyber-physical systems.

Leidos takes a proactive approach to cybersecurity. We focus on maximizing resources and ensuring the cyber resiliency of the mission using a threat-based methodology, leveraging knowledge and intelligence. Our full-spectrum cyber experts go beyond fundamental cyber hygiene and information assurance, bringing to bear our proven Defensive Cyber Operations tactics, techniques and procedures (TTP), and implementing advanced cyber analytics to anticipate and prevent cyber threats, including Advanced Persistent Threats (APT) and insider threats. Leidos has the depth and breadth to support advanced cyber missions, both on the defensive and offensive sides. We defend the most targeted networks in the world and help our customers use cyberspace as an advantage. Lessons learned from our full-spectrum cyber operations are fed back into our other technical competency areas, so cybersecurity is embedded in Leidos software development, systems engineering, and solution architectures.



## Why Partner With Leidos

Leidos is a recognized leader in digital modernization across the federal government. Driven by our diverse and talented workforce, we help our customers achieve their missions and IT business goals. We deliver purpose-built solutions and managed services, comprehensive, integrated cybersecurity, and efficient project delivery while focusing on end-user satisfaction.

We build digital workplace solutions that match an organization's needs and budget. We help bridge any gaps between mobile devices, traditional and digital workspaces, applications, and data to accelerate the transition to an integrated and efficient office of the future.

## Next Steps

Contact Leidos today to discuss with our experts how to modernize your digital infrastructure and management strategy while maximizing our solutions, innovation, and technology. Find out how our approach advances your digital workplace with proven solutions in cloud, collaboration, data centers, mobility, network modernization, and SecDevOps.

**FOR MORE INFORMATION**

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