

# Data Center Modernization

## WHY MODERNIZE?

Today's data center consolidation efforts are less about centralizing equipment and more about modernizing how infrastructure is deployed. Organizations are looking to right-size their data center and network footprints to reduce costs, improve cybersecurity, and simplify management of cloud, network, and application infrastructure. In undertaking a data center consolidation project, customers typically seek to:

### Realize facility, energy and operations cost savings.

- ▶ Reduce the number of physical facility spaces that need to be leased, maintained or purchased.
- ▶ Facility reduction and energy efficiency achieved in centralized, more contemporary data centers.
- ▶ Service operation efficiency achieved from centralizing data center services and reducing required labor.



### Modernize antiquated or inadequate data center infrastructures.

Focused investment on a small number of facilities with state-of-art facility and IT technologies, equipment, and management solutions that offer better scalability, reliability, and efficiency.

**Standardize technology and process management.** Easily standardize infrastructure technologies and processes across an enterprise IT infrastructure helps improve efficiency, reliability, and service management maturity.

**Security improvement.** Allows for more effective and easier-to-achieve security control, monitoring, surveillance, and security management of assets, data, and applications.

**Service continuity improvement.** Resilient infrastructure, comprehensive and operation effective backup solutions, and enterprise disaster recovery configurations can be deployed more cost efficiently in a centralized data center environment.

## OUR APPROACH

Data center modernization is a journey. Aligning business objectives with a scalable consolidation and optimization roadmap is a critical component for operational success and effective portfolio management.

In planning data center consolidation, an organization needs to first decide what needs consolidated and if the receiving site will be physical or virtual. Therefore, it is important to have an accurate understanding of each site's IT assets, capacity demand and growth, efficiency, and physical infrastructure capabilities. Leidos will work with you to:

- ▶ 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, Leidos considers how best to:

- ▶ Minimize business and user impact related to service downtime, performance degradation, and User Access/User Interface to application systems.
- ▶ Maximize and demonstrate Return on Investment (ROI) by thoroughly documenting and analyzing data on existing operations, project cost, and projected and actual savings/profits. Leveraging innovations, optimizing processes, and managing projects effectively are key to a higher ROI.
- ▶ Modernize IT infrastructure and technology to be current with state-of-the-art market solutions.

## OUR CAPABILITIES

Leidos has decades of experience building, securing, and modernizing data center infrastructure. Leveraging best-of-breed solutions, Leidos evaluates opportunities to upgrade infrastructure components to consolidate physical space, including virtualization of servers and the creation of private cloud infrastructure hosted on the customer premises.

## DATA CENTER CONSOLIDATION

Leidos helps customers consolidate data centers through a combination of moving elements to the cloud, relocating physical hardware, transitioning software to a managed data center environment, and sun setting elements when necessary. All the while ensuring that cloud, network, and application infrastructure is intact and secure.

## NETWORK OPTIMIZATION & SCALING

Leveraging software-defined networking (SDN), Leidos helps customers manage and optimize their networks by understanding bandwidth needs, different classes of users, types and priorities of traffic, and how to push critical traffic through and hold less critical traffic back. We understand the full stack of IT and help bridge the gap between network, application, and cybersecurity stakeholders.

## HYBRID CLOUD ENABLEMENT

Virtualization and hybrid cloud environments are essential strategies to reducing facilities costs, maximizing administrative resources, and saving energy. Leidos offers public, private, and hybrid hosting and co-location solutions to address regulatory requirements and resource allocation considerations.

Starting with an understanding of the system ecosystem, the Leidos team maps out networked locations, bandwidth usage, latency impacts, and number of network hops, and then ensures network pieces are passing through core security. This simplification reduces costs and improves the user experience.

## WHY PARTNER WITH LEIDOS?

Leidos has supported right-size initiatives for both CONUS and OCONUS and in both classified and unclassified environments. With a proven performance delivering at scale, Leidos has the breadth of services and engineering skills to manage your entire consolidation project, including application re-hosting and modernization.

## NEXT STEP

Contact Leidos to discuss modernizing your infrastructure and application management strategy to reduce your data center footprint while maximizing reliability, availability, and uptime.

## FOR MORE INFORMATION

[leidos.com/contact](https://leidos.com/contact) | [leidos.com/enterprise-it-modernization](https://leidos.com/enterprise-it-modernization)

## FEATURES AND BENEFITS

- ▶ Design/build to scale with evolving technology landscape
- ▶ Consolidate 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 use of ITIL and DCIM
- ▶ Improve disaster recovery (DR) and continuity of operation (COOP)