HOW DYNAMIC SYSTEMS HELPED THE DEPARTMENT OF ENERGY

IMPLEMENT A COMPLETE AND SECURE IT ARCHITECTURE

THAT BOOSTED THEIR OPERATIONAL EFFICIENCY WHILE SCALING FOR FUTURE GROWTH

ABOUT THE CLIENT

Industry: Government

DYNAMIC
SYSTEMS INC

Challenge

The DOE's infrastructure was running legacy systems nearing their End-of-Service-Life, and they partnered with Dynamic Systems to help them bridge their transition to a better IT environment.

Solution

Develop and deliver a multi-vendor IT infrastructure to address current issues with operational efficiency, as well as prepare the agency for future growth and stability.

Results

- Strong ties with technology partners providing access to best-of-breed HW/SW solutions
- Improved security and performance
- TS/SCI cleared personnel for implementation
- Solution documentation and training

Overview

The agency needs to transition from a previous architecture nearing their End-of-Service-Life to new systems that can boost performance for their IT environment, while keeping with security guidelines and accommodating future plans for scalability. Dynamic Systems designed a complete architecture that helps the agency meet all of these requirements.

Challenge

Running applications on legacy systems requires contending with not only their eventual End-of-Service-Life and supportability, but also their decreasing capacity for optimal performance. In the case of the DOE, they found that using applications that ran on older thin-client technology resulted in performance lags and, subsequently, issues with productivity.

In addition, these legacy systems need to be migrated to alternative platforms that do not only ensure IT continuity for the agency, but also pave the way for future scalability and growth.

Solution

As a premier partner of Oracle, Dynamic Systems worked with the technology provider to architect and implement a multi-vendor solution for the DOE. This spanned a whole suite of processes, starting from:

Handling and processing of TS/ SCI clearance through the Dynamic Systems Professional services organization

Systems hardening

Developing STIG and holistic security measures

Subsequently, Dynamic Systems designed the DOE's Development, Test, and Production environments. For these, the firm opted for the Oracle SPARC T8-2 servers + Dell and HP workstations for their hardware infrastructure, which run on Solaris and RedHat Linux operating systems.

Finally, Dynamic Systems Professional Services completed the implementation at the customer site using their own government cleared personnel.. Additionally, they enabled virtualization technologies such as:

Solaris Zones

Logical Domains (LDOMS)

Oracle Virtual Machine (OVM)

Documentation materials were also handed over to the DOE, and training was provided before transitioning off the project.

Results

Strong Ties with Technology Partners

Improved Security and Performance

Access to Best-of-Breed HW/SW Solutions

Solution Documentation and Training

> *Dynamic Systems' engineering and project management team provided excellent support!*

Department of Energy

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