



SmartStack for Oracle's JD Edwards EnterpriseOne with Cisco

Performance and Non-Disruptive Scaling for JD Edwards EnterpriseOne 9.1 with Converged Infrastructure Solution

Today's IT organizations are under constant pressure to do more with less. Mergers and acquisitions, data growth, and aggressive Service Level Agreements (SLAs) have placed greater burdens on IT, increasing the number of applications to support and adding complexity to datacenter environments.

Applications with advanced user interfaces, integrated business analytics, and mobile support capabilities have been designed so that IT organizations and users can become more efficient. However, IT still relies on legacy, proprietary technologies for infrastructure support — technologies that are unsuited to the demands of these modern enterprise-class applications that run on Intel-based platforms. With SmartStack reference architecture, Cisco UCS and Nimble Storage deliver the right combination of performance, capacity, and flexibility for the sophisticated software central to today's enterprises.

The Challenge: Migration to JD Edwards EnterpriseOne, Release 9.1

Oracle's JD Edwards EnterpriseOne is an integrated applications suite of comprehensive enterprise resource planning software that combines business value, standards-based technology, and deep industry experience into a business solution with a low total cost of ownership. To deliver these benefits and enable seamless migration, JD Edwards EnterpriseOne demands infrastructures that deliver new standards of performance and capacity — standards that are now available with SmartStack for Oracle's JD Edwards EnterpriseOne.

A Better Way Forward

SmartStack for Oracle's JD Edwards EnterpriseOne is based on a Nimble CS300 Series Adaptive Flash array and Cisco's Unified Computing Solution (UCS) Mini; a compact solution designed for mid-sized deployments to rapidly upgrade to the latest version of JD Edwards EnterpriseOne, while meeting high performance demands and enabling the scaling of capacity and performance without disruption.

SmartStack for Oracle's JD Edwards EnterpriseOne includes:

- Nimble CS300
- Cisco UCS Mini
- Oracle JD Edwards EnterpriseOne 9.1
- Oracle Database 11gR2
- Oracle Linux with the Unbreakable Enterprise Kernel
- Oracle VM (with Oracle VM template for JD Edwards)

The Nimble Storage Adaptive Flash Platform

Nimble's Adaptive Flash platform has been engineered to address the industry's most pressing storage issues. It offers a combination of high performance and capacity, integrated data protection (with rapid backup and recovery), and seamless scalability, all at an affordable price. Adaptive Flash is based on Nimble's patented Cache Accelerated Sequential Layout (CASL™) architecture, marrying the speed of flash with the cost-effective capacity of hard disk; and InfoSight™, the company's innovative, automated

Overview

Nimble Storage delivers the ideal platform for supporting your JD Edwards EnterpriseOne running on an Oracle software stack. Nimble Storage systems provide:

- **Adaptive Performance**
Get optimal storage performance for transactional and analytics workloads that adapts to your JD Edwards EnterpriseOne needs.
- **Proactive Management**
Eliminate the guesswork of tuning JD Edwards and Oracle Database with proactive wellness that sends remote alerts for system health, performance, and protection gaps.
- **Improved Scalability**
Spend less time and budget on your JD Edwards EnterpriseOne storage, scaling performance and capacity as your data needs grow.
- **Enhanced Protection**
Enable frequent and fast backup, simple recovery, and affordable disaster recovery to meet the needs of storage teams and applications users.

JD Edwards EnterpriseOne Oracle Database

ORACLE®

LINUX

ORACLE®

VM



storage management system designed to keep Nimble arrays running at peak performance.

Cisco UCS Mini

Cisco UCS, originally designed for the data center, is now optimized for segmented domains within the Enterprise, and branch and remote offices with Cisco UCS Mini. UCS Mini is ideal for JD Edwards EnterpriseOne customers who need fewer servers to manage but still want the robust management capabilities provided by UCS Manager — capabilities such as Service Profiles that separate workloads from system resources, thus allowing for workloads assignment and reallocation “on the fly.” This solution delivers servers, storage, and 10 Gigabit networking in an easy-to-deploy, compact, appliance-like form factor.

SmartStack for Oracle's JD Edwards EnterpriseOne Benefits:

- **Performance and Capacity Efficiency**

Nimble arrays deliver adaptive performance that is ideal for the changing needs of JD Edwards EnterpriseOne environments. CASL leverages flash's random read performance for queries, a read-only I/O pattern that taxes the resources of traditional storage systems. CASL uses flash as a cache, which removes the need for I/O tuning — thus delivering higher I/O and dramatically reducing the processing time for batch jobs. CASL incorporates innovative efficiency features such as inline variable-block compression, offering a 2x greater capacity than traditional storage for superior database performance.

- **Manageability**

With Oracle VM templates, IT can intelligently and rapidly deploy a complete JD Edwards EnterpriseOne 9.1 application instance to a new server efficiently, reducing the risks involved with normal deployments. Cisco's UCS service profiles simplify resource provisioning by modeling the abstractions of server, storage, and networking.

InfoSight gives IT the tools to effectively manage storage throughout its lifecycle. InfoSight monitors all Nimble arrays, collectively and individually, from the cloud, automatically gathering millions of data points per array each day and analyzing them in real-time. Using that data, InfoSight identifies potential problems — and offers solutions — long before they can bring systems down. Nimble customers have achieved greater than 99.999 percent uptime, the gold standard for system availability.

- **Scalability**

Nimble Storage solutions help meet growing business demands by enabling IT professionals to grow performance and capacity non-disruptively and incrementally. IT can meet JD Edwards EnterpriseOne performance needs by adding SSDs, while capacity can be scaled to hundreds of terabytes (TBs) with extra disk shelves. Therefore, a full range of workloads are supported, from simultaneous, high-performance market research queries to occasional archiving and searches.

- **Data Protection**

Nimble solutions offer maximum data protection for JD Edwards EnterpriseOne environments with frequent snapshots, consistent backups, fast restores, and efficient replication for disaster recovery. Nimble's simple and affordable data recovery capabilities efficiently protect months of stored snapshots, easing the burden on server and network. All of Nimble's advanced data protection capabilities are included with every array, eliminating additional license or service fees.

The Bottom Line

SmartStack for Oracle's JD Edwards EnterpriseOne with Cisco is a pre-validated reference architecture based on best-of-breed solutions from Nimble, Cisco, and Oracle that deliver enterprise-class performance and capacity for JD Edwards EnterpriseOne. It delivers the advanced storage features customers have come to expect from Nimble: adaptable performance and capacity, integrated data protection, seamless scalability, combined in an affordable and easy-to-manage solution. The end result: a dramatically better return on infrastructure investments, and a substantial reduction in total cost of ownership (TCO) when compared to traditional solutions.

For more information, visit www.nimblestorage.com or contact an authorized reseller.



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