

TOP REASONS: VXRACK NODE

Software-Defined, Scale-Out SAN



VxRack™ Node is a software-defined, block storage, server SAN that offers EMC Commodity servers and EMC® ScaleIO® software bundled together for easy, flexible deployment. With this new consumption model, ScaleIO customers can experience the benefit of software-defined, scale-out, server SAN faster with a pre-validated, tested and configured solution.

ONE VENDOR

Deploying a software-defined, scale-out, block storage server san is made simple with VxRack Node. It is a fully integrated solution (ScaleIO software, x86 commodity hardware and support) from one vendor. As a result, you get one sales experience, one support experience and the confidence of knowing your solution was designed to deliver optimal performance.

MASSIVE SCALABILITY

VxRack Node is designed to scale in line with your business needs while maintaining linear performance throughout. Unlike other SDS vendors, who either can't scale beyond limited nodes or see a dip in IOPS as scale increases, ScaleIO scales all the way from a three server nodes to a thousand plus – all contributing to the aggregate IOPS.

UNPARALLELED FLEXIBILITY AND DEPLOYMENT

VxRack Node is hypervisor and operating system agnostic, enabling you to select the OS that best supports your applications. Customers can select from 4 different server node types, depending upon their workload demands. Specifically, there are server nodes optimized for capacity or performance—empowering you to build the solution that best fits your business needs. You also have the ability to mix and match node types in a single system, non-disruptively. Furthermore, VxRack Node provides you with the flexibility to use your own racks and network switches.

EXTREME PERFORMANCE

All of the VxRack Nodes participate in servicing I/O requests using massively parallel processing. Unlike most traditional storage systems, as the number of servers grows, so does throughput and IOPS, eliminating bottlenecks. Performance scales linearly and cost/performance rates improve with growth. Performance optimization is automatic; whenever rebuilds and rebalances are needed, they occur in the background with minimal or no impact to running applications.

SUPREME ELASTICITY

Storage and compute resources can be increased or decreased whenever the need arises. The system automatically rebalances data "on the fly" with no downtime. This means capacity planning and migrations are practically eliminated.

COMPELLING ECONOMICS

Trying to predict the growth of your company is hard. In traditional storage environments, if you under predict your capacity you need to purchase more, and if you over predict you will be paying for underutilized storage. With VxRack Node, you "pay as you grow" and therefore you do not need to pre-pay for infrastructure you may not need. VxRack Node is a server based SAN, and there are no dedicated storage components like FC switches and HBA's. Customers can expect to be as much as 50% more efficient (power/cooling/space) when compared to their traditional SAN infrastructures.

CONTACT US

To learn more about how EMC products, services, and solutions can help solve your business and IT challenges, [contact](#) your local representative or authorized reseller, visit www.emc.com, or explore and compare products in the [EMC Store](#).

EMC², EMC, the EMC logo, VxRack, ScaleIO are registered trademarks or trademarks of EMC Corporation in the United States and other countries. VMware is a registered trademark or trademark of VMware, Inc., in the United States and other jurisdictions. © Copyright 2016, 2015 EMC Corporation. All rights reserved. Published in the USA. 02/16 Handout H14534.2

EMC believes the information in this document is accurate as of its publication date. The information is subject to change without notice.

The EMC logo is displayed in white text on a blue rectangular background in the bottom right corner of the page.