

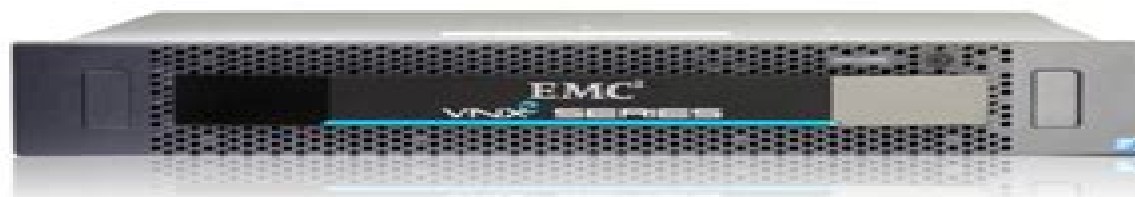
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EMC VNXe Setup Guide

NOVEMBER 15, 2016NOVEMBER 15, 2016

The VNXe is the most affordable hybrid and all-flash array across the EMC product range. Although the future potentially sits with the newly released [Unity \(https://esxsi.com/2016/10/12/unity/\)](https://esxsi.com/2016/10/12/unity/) line, the VNXe remains a popular, flexible, and efficient storage solution for SMBs and ROBOs. This post will walk through the setup of an EMC VNXe device.



Architecture

The VNXe 3200 is powered by dual Intel Xeon E5-2407 4-Core processors, providing up to 3x the performance of its 3150 predecessor. The Disk Processor Enclosure (DPE) leverages dual controllers and 6-Gb SAS back-end connectivity to deliver high levels of availability and efficiency, whilst lowering storage costs per I/O. Disk Array Enclosures (DAE) are added to scale out capacity up to 500 TB top end. There is concurrent support for NAS and SAN, with CIFS, SMB3, NFS, iSCSI and Fibre Channel (up to 8Gb) protocols, whilst the unit itself has a small datacentre footprint. For more information see the [EMC VNXe Data Sheet \(http://www.emc.com/collateral/software/specification-sheet/h13842-vnxe-ss.pdf\)](http://www.emc.com/collateral/software/specification-sheet/h13842-vnxe-ss.pdf).

Some considerations when creating storage pools: typically we want to configure less storage pools to reduce complexity and increase flexibility, however configuring multiple storage pools may be required if you want to separate workloads. Storage pools must maintain free capacity to operate, EMC recommend at least 10%. You will need to make design decisions based on your environment around storage pool capacities and configured RAID protection. The VNXe range offers multicore RAID 1/10/5/6 configured at storage pool level. EMC generally recommends smaller RAID widths as providing the best performance and availability, at the cost of slightly less usable capacity, e.g. for RAID 6 use 4+2 or 6+2 instead of 10+2 or 14+2.

VNXe arrays use the first 4 drives to store configuration information and critical system data, these are known as the system or vault drives and run from DPE Disk 0 through to DPE Disk 3. The system drives can be added to storage pools however usable capacity of system drives is reduced, therefore

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Stephen L. Herman

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