

JBOD Alternative



Issue:

Disks and JBODS are fixed, inflexible, physical media that take up lots of space and power and have singular purpose.

Solution:

SANBlaze target emulation systems can provide the same functionality as a JBOD or array, but have enhanced features and capabilities not found in other storage platforms.

Benefits:

Cost: The ability of the VirtuaLUN to easily emulate a variable number of disks allows for large systems testing at full speed to be done at a fraction of the cost of JBOD's.

Flexibility: The ability of the SANBlaze system to emulate many different target configurations, performance levels and error conditions provides a lab with maximum configurability and flexibility. Many of these options are simply not available in a JBOD.

Time: Preformatted, preconfigured drive parameters, configurations and data can be restored in seconds, allowing for target test scenarios to be rapidly changed.

Using a SANBlaze Target Emulation System instead of a JBOD or Disk Array

The SANBlaze VirtuaLUN can easily replace the function of a JBOD or disk array in test, QA and development environments. The ability to configure, save and rapidly restore 100's of different target disk configurations alone makes the system an excellent, cost effective replacement option for Fibre Channel or SAS drives.

While the configurability and flexibility of the platform to behave as a "programmable JBOD" offers an attractive alternative, the additional features of the product provides functionality that can not be found in physical disks or arrays.

These include:

Rapid Configurability – The systems 500G internal hard drive can store many configurations with different target and LUN counts, saving both the physical configuration as well as the data, if specified. A new or different configuration can be loaded or restored in seconds. Multiple formatted drives with different operating systems can be saved and restored with a few mouse clicks, for example.

Performance – The target configuration can perform at near zero latency and full speed line rates, providing an extremely high performance target system. It can also be configured to mimic real drive performance or simulate degrading performance.

Error injection – An extensive list of configurable errors and triggering events can replace the bad drives that labs keep around to provide error cases. Error conditions can be simulated, combined, scripted, saved and recalled easily and predictably.

Scripting – Target configurations, performance, errors and behavior can be scripted, run remotely and changed without physically touching the system.

Sample Configurations: The following configurations compare the SANBlaze VirtuaLUN and GargantuLUN Fibre Channel systems cost versus a similar configuration utilizing JBODS.

Assumption: JBOD configuration with 16 Drives (1 port by 16 Drives) = \$6000 cost

Target configuration required: 12 FC ports, 16 drives each

JBOD Cost: 12 1x16 JBODS = \$6000 x 24 = \$72,000.00

SANBlaze List Price: \$60,000.00

GLUN4-12-16: 12 Port GargantuLUN System provides 12 4G Fibre Channel Ports with 16G of RAM

SANBlaze savings: **\$12,000**

Target configuration required: 24 FC ports, 16 drives each

JBOD Cost: 24 1x16 JBODS = \$6000 x 24 = \$144,000.00

SANBlaze List Price: \$84,000.00

GLUN4-24-16: 24 Port GargantuLUN System provides 24 4G Fibre Channel Ports with 16G of RAM

SANBlaze savings: **\$60,000**

Target configuration required: 4 FC ports, 500 drives each

JBOD Cost: How much would an array such as this cost?

SANBlaze List Price: \$34,415.00

VLUN4-4-16: 4 Port VirtuaLUN System provides 4 4G Fibre Channel Ports with 16G of RAM

SANBlaze savings: **\$ Hundreds of thousands**



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