100GbE Switch

4x25GbE
per node

2x100GbE
per node

8 MLPerf Storage
benchmark clients

Nutanix Objects on
4 node NX8150G8

Controller
VM

Objects
VM

Load
balancer
VM

AHV hypervisor

One NX8150G8 running Objects

Settings for 32 GPU simulation:

CVM:

- 18 cpu cores
- 64GB DRAM

Objects VM:

- 16 cpu cores
- 32GB DRAM
- 1 x data path virtual nic with 6 queues
- NUMA pinning

Load Balancer:

- 6 cpu cores
- 4 GB DRAM
- 2x data path virtual nic with 4 queues each

Buckets:

- 8 buckets spread over 4x 8155G8, one mapped to each benchmark instance
- 6 vdisks per Objects VM spread over all controller VMs

Benchmark clients:

- Ubuntu 22.04.2 LTS
- 24 cpu cores
- 180GB DRAM
- NUMA pinned
- 1 x data path virtual nic with 4 queues
- Benchmark VMs running outside Objects cluster