



Information Technology – Replacement of Storage Area Network

Questions # 2 from the Pre-Bid Meeting 4/24/2024 – Number # 2

May 8, 2024

SAN related:

1. For the new SAN, is file-level access required, or only block-level needed?

File-level access is required for use with NFS shares for VMware servers.

2. What connectivity and speed is required? (e.g., 10G SFP+ / 16G FC...)

10G Ethernet or 10G SFP+

3. What is the drive configuration of the vnx5300? (e.g., all SSD? Hybrid with xTB 7.2K + xTB SSD)

See attached screenshots.

4. What throughput and IOPS does the vnx5300 provide today? (Note: please advise as to actual production speeds. EMC spec sheets typically claim 5-10x higher speeds than what customers actually achieve.)

See attached files:

CIF Shares IOPS.csv
NFS Shares IOPS.csv
File System IOPS.csv
Network Device IOPS.csv
All Performance IOPS.csv

VMware related:

1. For one-to-one SAN replacement solutions (i.e., non-hyperconverged, non-cloud), will you be keeping or replacing the existing VMware hosts tied to the deprecated EMC array?

We will be replacing our VMware hosts since they are EOL and EOSL as well.

- a. If replacing the hosts, do you also require a quote for these as part of this RFP, based on the compute requirements provided? Current reading of the RFP appears to indicate that this would be relevant only for hyperconverged and cloud solutions, but the plan for the existing hosts was unclear.

Yes, we will require a quote for replacing our VMware servers based on the compute requirements previously shared.

2. What level of VMware vSphere licensing is currently held (e.g. Essentials, Essentials Plus, Foundation, Standard, Enterprise). This will affect level-of-effort estimation for existing VM migrations to the new SAN, based on access to vMotion functionality or lack thereof.

VMware vSphere 6 Enterprise Plus.

3. What is the average and 95% IOPS and throughput numbers from their current array?

See attached files:

CIF Shares IOPS.csv
NFS Shares IOPS.csv
File System IOPS.csv
Network Device IOPS.csv
All Performance IOPS.csv

4. Is data currently being deduplicated and compressed?
5. What are the major workloads and data types?
6. What OS and hypervisor versions are installed on the servers?

VMware vSphere 6 Enterprise Plus on our hosts. Virtual Machines have Windows Server 2016-2022 installed.

7. What is the preferred network connectivity?

10G Ethernet

8. Could you please provide additional details on your Compute environment?

See attached results from previous collector.

9. At the pre-bid conference, you said you would be running a sizing tool. Has that been done, and if it has not been completed, when might that be completed and released to the bidding vendors?

See attached results from previous collector.

10. Are vendors able to submit more than 1 bid/solution? Yes.