

RFP NO: 72/eGovt/2024

KVM Expansion

Q's and A's

Q1	for ITEM 3.2.1.1 SERVERS Main and 3.2.2.1 SERVERS DR For DR site Server, we can't provide 2 x single port 32G FC cards, however we Can Propose 1 x Dual port 32G FC card rather, please approve? Please advise how many 10G SFP+ should be provided per server?
A1	- Approved - 4 10 G SFP+
Q2	for ITEM 3.2.1.1 SERVERS Main and 3.2.2.1 SERVERS DR Please advise if Raid Controller should be supported and certified with Oracle Linux (versions 8 and or version 9)?
A2	Confirmed.
Q3	for ITEM 3.2.1.1 SERVERS Main and 3.2.2.1 SERVERS DR we recommend to have hardware raid with minimal impact on the CPU because RAID processing is offloaded to the controller, as well for better compatibility with operating systems such as Oracle Linux, and since our Server Vendor doesn't support intel Virtual Raid controller, please advise if Hardware Raid that support Raid 0,1,5,6,10 with 8G cache memory is accepted? If yes <ul style="list-style-type: none">o For Main Site servers: please approve to propose Hard Drives 2x 1.6TB Mixed Use NVMe disks Gen4?o For DR site servers (single CPU servers), as we don't have NVME on single CPU server's chassis, please approve to propose Hard Drives 2x 1.6TB SSD SAS Mixed Use up to 24Gbps?
A3	- Any certified oracle Linux hardware or software Raid are accepted. - Approved - Approved
Q4	for ITEM 3.2.1.1 SERVERS Main and 3.2.2.1 SERVERS DR Can we Propose 1 x Dual port 32G FC card instead of 2 x Single Ports 32G FC for Main site Servers?
A4	Not Accepted
Q5	For SAN storage item Main and DR NVMe SAN storage benefits significantly from a high-performing CPU, especially for data services like deduplication, compression, snapshots, replication, and encryption, please advise how many CPU cores should the storage have, we recommend for such a capacity to have at least 38 cores per Storage?
A5	Refer to RFP requirement.
Q6	For SAN storage item Main and DR

	Please advise if storage should be expandable using NVME drives on both storage controller and storage shelves?		
A6	Confirmed		
Q7	For SAN storage item Main and DR Please advise if storage management (for administration and maintenance, upgrades) should be on prem or cloud based?		
A7	On prem.		
Q8	For Main storage Please confirm that 130cTB raw is 130TB raw capacity?		
A8	Confirmed		
Q9	Please advise if Storage and Servers in Main and DR site warranty should be 3 years 24x7 or 8x5?		
A9	8 x 5		
Q10	FOR Oracle Linux KVM Premier 1) Is it required with local support from partner? 2) Please advise if OLVM “Oracle Linux Virtualization Manager “and KVM cluster installation, and configuration is required and part of the scope?		
A10	1) Yes 2) Yes		
Q11	Regarding Item (3.2.1.2 SAN STORAGE), the RFP requested 130TB RAW capacity using 7.68TB NVMe SED Drives as the following <table border="1" data-bbox="289 1010 1421 1087"><tr><td>Row Capacity</td><td>130 TB Raw Capacity Using 7.68TB NVMe SED Drives.</td></tr></table> Can we participate using 15.36 NVMe SED Drives and match the 130TB RAW Capacity?	Row Capacity	130 TB Raw Capacity Using 7.68TB NVMe SED Drives.
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A11	Not Accepted		
Q12	Regarding Item (3.2.2.2 SAN STORAGE), the RFP requested 130TB RAW capacity using 7.68TB NVMe SED Drives as the following: <table border="1" data-bbox="289 1346 1408 1415"><tr><td>Row Capacity</td><td>130 TB Raw Capacity Using 7.68TB NVMe SED Drives.</td></tr></table> Can we participate using 15.36 NVMe SED Drives and match the 130TB RAW Capacity?	Row Capacity	130 TB Raw Capacity Using 7.68TB NVMe SED Drives.
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A12	Not Accepted.		
Q13	Could you please confirm the location of the Disaster Recovery (DR) site, specifically if it is located at Unitel in Aqaba?		
A13	In Aqaba		
Q14	Could you clarify the type of link currently connecting the Main site to the DR site, as well as the available speed?		
A14	NBN Fiber connectivity with 100Gbps speed.		
Q15	Could you confirm if the round-trip time (RTT) meets the recommended latency? As the recommended maximum for round-trip latency in synchronous replications should not exceed 5 milliseconds.		
A15	Confirmed.		

Q16	Could you confirm if there is guaranteed bandwidth allocated for Remote Copy, should it be necessary?
A16	Confirmed.
Q17	Please advise, if SAN-based replication is required for this setup.
A17	Required.
Q18	Could we suggest using a 10GbE SFP+ to SFP+ Direct Attach Copper Cable as an alternative to 10Gb transceivers and cables for server and storage connections? Please also specify the required cable length.
A18	Both options are accepted, for cable length will specify it during implementation.
Q19	Please advise, What support level is requested: (8x5) or (24/7)?
A19	Refer to Q9
Q20	According to Intel documentation, Oracle Linux is not listed as a supported Linux distribution. Could you confirm if this is acceptable, or if we should propose a dedicated RAID controller?
A20	Refer to Q2 & Q3
Q21	Please note that Oracle Linux Premier support services are available for systems with up to two physical CPUs. Please confirm whether we should amend the quantity to 4 for the main site.
A21	To cover all requested servers.
Q22	Could you clarify what "c after 130" refers to?
A22	Refer to Q8
Q23	Lastly, please confirm if there is an additional page to share with us, as the document provided ends on page 27 of 33
A23	No additional pages.