

Caiet de sarcini

Technical specifications per server.		
1.1	Type	Enterprise Server, Quantity 8 pcs.
1.2	Form factor	Rack mount, max 2U (rail-kit included).
1.3	CPU included	<p><i>Quantity:</i> 2 x CPU per server.</p> <p><i>Cores:</i> 64 cores per CPU.</p> <p><i>Threads:</i> 128 threads per CPU.</p> <p><i>Base Clock Speed:</i> Min. 2.20 GHz.</p> <p><i>Cache:</i> Min. 256 MB.</p> <p><i>Launch Date:</i> Not earlier than Q1'2025.</p>
1.4	Memory	Min. 32 DDR5 slots.
1.5	Memory included	Min. 16 x 64GB DDR5.
1.6	Min. drive bays included	<p>Min. 24 bays 2.5" for data, compatible with the offered drive interface (SAS or NVMe U.2/U.3), Support Hot-Swap drives.</p> <p>Min. 2 bays for OS boot, RAID 1, Support Hot-Swap drives.</p>
1.7	Drives included	<p>Min. 3 x 1.6TB SSD, Caching Tier, Endurance Class D , Performance Class F, SAS 24Gb/s or NVMe (U.2/U.3, PCIe Gen4 or later), Hot-Swap.</p> <p>Min. 21 x 3.2TB SSD, Capacity Tier, Endurance Class D min.15000TBW, Performance Class F, SAS 24Gb/s or NVMe (U.2/U.3, PCIe Gen4 or later), Hot-Swap.</p> <p>Drives SSD for vSAN should support min. vSAN releases 8.0U3 and later.</p> <p>Min. 2 x 240GB SSD for OS boot, Hot-Swap.</p>

1.8	Storage Adapters included	<p>Should support Pass-through mode for all bays (matching the offered drive interface-SAS or NVMe).</p> <p>Matching the offered drive interface-SAS or NVMe</p> <p>Should be in vSAN compatibility guide.</p> <p>Should be compatible with min. vSAN releases 8.0U3 and later.</p> <p>1 x RAID controller for OS boot, 2 x SSD, RAID-1.</p>
1.9	NICs, ports, modules included (Server side)	<p>Min. 2 x NIC's, 2 x 25GbE ports, identical NIC's models.</p> <p>NIC's should support network virtualization offload.</p> <p>NIC's should support RDMA (RoCE v2)</p> <p>NIC's should be in vSAN compatibility guide.</p> <p>NIC's should support min. vSAN releases 8.0U3 and later.</p> <p>Min. 4 x SFP 25G-SR SFP28 modules.</p> <p>Min. 1 x Dedicated 1Gb/s Ethernet Port for remote management.</p>
1.10	Modules included (Switch side)	<p>Min. 4 x SFP 25G-SR SFP28 modules (Cisco Compatible).</p>
1.11	Interfaces included	<p>Min. 2 x USB ports.</p> <p>Min. 1 x VGA port.</p>
1.12	Options included	<p>Trusted Platform Module 2.0.</p>
1.13	Supported operating environments	<p>Microsoft Windows Server®.</p> <p>Microsoft Hyper-V®.</p> <p>Red Hat® Enterprise Linux.</p> <p>VMware® (VMware® Cloud Foundation 9.0, VMware® vSAN 8.0U3 and later).</p>
1.14	Power supplies included	<p>2 Hot-Swap PSU with support for 1+1 redundancy.</p> <p>Power cables c13-c14(0.6 m).</p>
1.15	Fan Modules included	<p>Hot-Swap with N+1 redundancy.</p>

<p>1.16</p>	<p>Management included</p>	<p>A web-based solution for KVM must be included with full functionality for manage and monitoring, including at least:</p> <ul style="list-style-type: none"> - View information about the state of the managed server; - Inventory and monitoring of network adapters and data storage subsystems without software agents in the OS; - View inventory information; - View information from sensors; - Monitoring and control of electricity consumption; - Turn on/off the server; - Remote update of BIOS, firmware of network and RAID controllers; - Virtual console, virtual media devices; - OS installation from virtual media devices and through network shared folders. <p>Centralized resource management solution for hardware management must be included, with full functionality that provides agent-free management, automates discovery, inventory, tracking, updates, monitoring, and provisioning".</p>
<p>1.17</p>	<p>Warranty</p>	<p>Hardware and software support from vendor, with available customer portal.</p> <p>Next business day hardware replacement included for min. 5 years.</p>
<p>1.18</p>	<p>Terms and conditions</p>	<p>All requirements are minimum and mandatory.</p> <p>One requirement must not limit another requirement.</p> <p>All components must be current and not advertised as EOS / EOL.</p> <p>The expansion of memory (ram) and storage capacity must not include any hardware or software limitations.</p> <p>Faulty storage drives are not subject of return in order to be compliant with the security requirements.</p>