## Caiet de sarcini

Technic	Technical specifications per server.				
1.1	Туре	Enterprise Server, Quantity = 16pcs.			
1.2	Form factor	Rack mount, max 2U (rail-kit included).			
1.3	CPU included	Quantity: 2 x CPU per server.			
		Cores: 32cores per CPU.			
		Threads: 64 threads per CPU.			
		Base Clock Speed: Min. 2.60 GHz.			
		Cache: Min. 50 MB.			
		Launch Date: Not earlier than Q1'2023.			
1.4	Memory	Min. 32 DDR5 slots.			
1.5	Memory included	Min. 12 x 64GB DDR5.			
1.6	Min. drive bays	Min. 24 bays 2.5" for data, Support Hot-Swap drives.			
	included	Min. 2 bays for OS boot, RAID 1, Support Hot-Swap drives.			
1.7	Drives included	Min. 2 x 1.6TB SSD, Caching Tier, Endurance Class D, Performance			
		Class F, SAS 24Gb/s, Hot-Swap.			
		Min. 14 x 3.84TB SSD, Capacity Tier, Endurance Class D			
		min.15000TBW, Performance Class F, SAS 24Gb/s, Hot-Swap.			
		Drives SSD for vSAN should support min. vSAN releases 7.0U3-8.0U2.			
		Min. 2 x 240GB M2 SSD for OS boot, Hot-Swap.			

1.8	0	Should support Pass-through mode for all bays.
	Adapters included	Should be in vSAN compatibility guide.
		Should be compatible with min. vSAN releases 7.0U3-8.0U1.
		1 x RAID controller for OS boot, 2 x M.2 SSD, RAID-1.

1.9	NICs, ports, modules included (Server side)	Min. 2 x NIC's, 2 x 10/25GbE ports, identical NIC's models.  NIC's should support network virtualization offload.  NIC's should be in vSAN compatibility guide.  NIC's should support min. vSAN releases 7.0U3-8.0U1.  Min. 4 x SFP-10G-SR SFP+ MM modules.  Min. 1 x Dedicated 1Gb/s Ethernet Port for remote management.
1.10	Modules included (Switch side)	Min. 4 x SFP-10G-SR SFP+ MM (Cisco Compatible).
1.11	Interfaces included	Min. 2 x USB ports.  Min. 1 x VGA port.
1.12	Options included	Trusted Platform Module 2.0.
1.13	Supported operating environments	Microsoft Windows Server®.  Microsoft Hyper-V®.  Red Hat® Enterprise Linux.  VMware® (VMware® vSphere, VMware® vSAN 7.0U3-8.0U1).
1.14	Power supplies included	2 Hot-Swap PSU with support for 1+1 redundancy. Power cables c13-c14(0.6 m).
1.15	Fan Modules included	Hot-Swap with N+1 redundancy.

1.16	Management included	A web-based solution for KVM must be included with full functionality for manage and monitoring, including at least:  - 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.  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".
1.17	Warranty	Hardware and software support from vendor, with available customer portal.  Next business day hardware replacement included for min. 3 years.
1.18	Terms and conditions	All requirements are minimum and mandatory.  One requirement must not limit another requirement.  All components must be current and not advertised as EOS / EOL.  The expansion of memory (ram) and storage capacity must not include any hardware or software limitations.  Faulty storage drives are not subject of return in order to be compliant with the security requirements.