



Barcelona, April 9, 2024

ANSWERS TO QUESTIONS

Supply of IT Equipment Servers and SAN storage - 08 - PRO491LAD-2024

With reference to the above-mentioned procedure, please find below the answers to the questions posed by the interested companies:

REQUEST FOR CLARIFICATIONS Nr. 1 (dated Wednesday 27/03/2024 12:21)

Question 1: *Technical Requirement: ENGLISH Microsoft Windows Server® 2022 including installation, migration of the virtual machine (Hyper-V) with the Active Directory and configuration. - Installation in our rack. Please share the information related to the VMs, quantity, amount of data in GBs, OS version, Critical Apps installed, etc. Question – Clarification: Even if it is possible to share an RV Tools of the environment, it would be better. What services do you have configured in the Active Directory service? (i.e. DNS, DHCP, etc.)*

Answer: We are migrating 3 VMs with Windows Server 2016 Standard.
Each VM has around 100GB.
Both DNS and DHCP are configured in our AD.

Question 2: *Technical Requirement: - Capacity: 12 SSD per controller. Total 24 SSD. - Storage SSD: 6 x 1.92 TB SAS RAID5. Question – Clarification: Just to make sure: You are expecting a Storage Cabin that can support up to 24 SSD disks, but just need to install 6x1.92 TBs for now?*

Answer: Yes, space for 24 SSD but initially 6 SSD must be supplied per each controller so a total of 12 SSD.

Question 3: *Technical Requirement: One year (after the end of one-year standard warranty) in accordance with the conditions laid down in Article 32 of the General Conditions and Article 33 of the Special Conditions. Question – Clarification: What do you mean by "Commercial Warranty"? Please explain this concept of what are the deliverables that you are expecting.*

Answer: The warranty the manufacturer provides for a defined period guaranteeing that the supply will be free from structural defects due to substandard material or workmanship, under conditions of normal commercial use and service. The commercial warranty should not be confused with - and might go beyond - the warranty period of the contract.

Question 4: *Do you have switches already installed and supported that are able to connect the hardware required or do you need to be included in the offer? 10G BaseT.*

Answer: Yes, we have switches MS210 24p of MERAKEI. Our ports are 1Gb.



REQUEST FOR CLARIFICATIONS Nr. 2 (dated Thursday 28/03/2024 14:14)

Question 5: *Technical Requirement: - Number of processors 4. -AMD EPYC 7453 2.75 GHz or equivalent. Question – Clarification: This processor (AMD EPYC 7453) has 28 cores, which means 56 cores for each server. This amount of cores elevates de cost of Windows licenses. Depending on the number of VMs deployed in the cluster it could be required to use datacenter licenses and that elevates de cost of the solution almost near(40K) to your total budget. With that stated, Is required to consider a 28 cores processor? Is this processor needed to support any specific high CPU demanding workload? Also, please share the number of VMs and their requirements to determine license needs.*

Answer: Only for 3 VMs

The equivalent in Intel is Xeon Gold 6240. Other processor can be offered, the mentioned AMD is just as a reference.

The current processor of our servers is Intel Xeon E5-2620 v4.

We want to license each CPU not for each cores.

We are not pretending to have data center licenses.

Question 6: *Technical Requirement: All licenses must be included, Windows, Hyper-V, etc. Question – Clarification: Is required to include CAL or RDP user licenses to access Windows servers?*

Answer: The servers must be remotely accessible, we are currently using RDP. The number of user to be connected is usually 1 simultaneous.

REQUEST FOR CLARIFICATIONS Nr. 3 (dated Tuesday 02/04/2024 18:58)

Question 7: *You are looking for Servers with 4 processors and you have specified AMD processors. There is no possibility to configure a server with 4 CPU's from AMD. It is only possible with Intel. Or maybe you are asking for only 2 processors for server? We would like to know if is there any possibility to offer Intel processors?*

Answer: No, 4 processors per server, in total 8 processors. Yes, Intel or AMD are accepted.

REQUEST FOR CLARIFICATIONS Nr. 4 (dated Wednesday 03/04/2024 11:10)

Question 8: *When you mention migrating your file system, I understand you're referring to transferring the information from the file server using 'robocopy' or a similar tool. However, does it need to be assumed that they are correctly requesting a SAN enclosure, with iSCSI block protocol allowing the export of disk LUNs that are mounted by a server, but doesn't allow exporting folders as it would then be a NAS with file protocol over Ethernet like CIFS or NFS?*

Answer: Yes, you are correct in your understanding of migrating the file system using tools like 'robocopy'.



REQUEST FOR CLARIFICATIONS Nr. 5 (dated Tuesday 09/04/2024 12:36)

Question 9: *Las licencias que deberán suministrarse, serán en inglés de WinSvr Standard Edition 2022 para cubrir el licenciamiento de la infraestructura y el resto de instancias serían migrarlas tal cual están, que son esas tres máquinas.*

Answer: We are planning to migrate 3 of the 4 VMs that we are currently having in our servers.

Question 10: *Ocupados los puertos 10G SFP+ de los switches actuales, para el stacking de la pila actual, la idea será autonegociar la tarjeta quad-port de cada uno de los dos servidores 10GbT con los puertos GigaEthernet que tenéis de los switches en alta disponibilidad libres.*

Answer: Yes, our switches MS210 24p of Cisco Meraki have SFP ports but they are all currently in use, our idea is to use the RJ45 ports.

Question 11: *Respecto el tema de procesadores, el benchmark supondrá disponer de procesadores actuales para soportar DDR5, el procesador indicado soporte DDR4. Por controladora de almacenamiento iSCSI, es disponer cuatro puertos por controladora 10GbT para disponer de un total de 8 iSCSI para el total de la configuración.*

Answer: These are the configurations of the main manufacturers, Dell, Huawei, IBM, HPE, Fujitsu. The minimum is 4 ports per card, so 8 ports in total for the cabin is the minimum.

Question 12: *Para la partida de servicios profesionales, migración de las instancias virtuales actuales e instalación, configuración del entorno.*

Answer: VMs and less than 4TB.