

1. Cerințele tehnice pentru sistemul de servere și echipamentul de rețea.

1.1. Virtual Nod Server – 2 buc

Cerințele:

Server – Brand Name International

Processor: min. 2 x Eight-Core Processors, Frequency min. 2.13 GHz, min. 6.4 GT/S QPI, min. 24 Mb cache, 105W up to 4 CPU

RAM: min. 32Gb DDR3 Registered (LV RDIMM) up to 512GB DDR3 RDIMM

Hard Disk: min. 4 x 146 GB(15k rpm) 6G SAS Hot-Swap 2,5" HDD(RAID 10).

Storage Controller: 6GB/s SAS support, Internal HW RAID levels 0/1/10

Storage Controller: 2x6GB/s External SAS Controller

Optical drive: SATA DVD-RW Drive

Ports: Serial, 2xVGA, Manag. Port, 4 x RJ-45, 7xUSB (min. 1 x internal), Internal Dual SD Module 2x2GB SD Cards

Connectivity: Embedded 4 x Gigabit network adapters

Expansion Slots: min. 2 x PCIe x4, min. 5 x PCIe x8

Redundancy: Fully redundant hot plug fans

PSU: 2 x Power Supply, Hot-Plug.

Management: health monitoring, power and thermal control, remote administration,

OS support: Windows, RHEL, SLES, VMware and/or Citrix XenServer

Form Factor: Rack mountable, max. 2U

Warranty: min. 3-year

1.2. Domain controller server – 2 buc

Cerințele minime:

Server – Brand Name International

Processor: min. Quad-Core Processors, Frequency min. 2.4 GHz, min. 8 Mb cache, 95W

RAM: min. 8Gb DDR3 Registered (RDIMM) (6 DIMM slots)

Hard Disk: min. 2 x 250 GB(7.2k rpm) SATA Hot-Swap 3.5" HDD

Storage Controller: SATA/SAS support, Internal HW RAID levels 0/1

Storage Controller: 6GB/s External SAS Controller

Optical drive: SATA DVD-RW Drive

Ports: Serial, 2xVGA, Manag. Port, 2 x RJ-45, 6xUSB (min. 2 x internal)

Connectivity: Embedded 2 x Gigabit network adapters

Expansion Slots: min. 2 x PCIe x8

Redundancy: Fully redundant hot plug fans

PSU: 2 x Power Supply, Hot-Plug.

Management: health monitoring, power and thermal control, remote administration,

OS support: Windows, RHEL, SLES, VMware and/or Citrix XenServer

Form Factor: Rack mountable, max. 1U

Warranty: min. 3-year

1.3. Echipamentul de rețea (Switch) – 2 buc.

Cerințele minime:

Switch for Server Infrastructure with stacking modules and cable

Ports min.:

24 10/100/1000BASE-T auto-sensing Gigabit Ethernet switching ports

2 SFP+ (10Gb/1Gb) ports

2 Stacking Ports – 10Gbps per port, full duplex, 40Gbps total per switch

USB Port – Allows for file import/export locally

Port configuration

Auto-negotiation for speed, duplex mode and flow control

Auto MDI/MDIX

Port mirroring

Broadcast storm control

Up to 64 Static Routes Supported

Performance min:

Switch Fabric Capacity 128.0 Gbps

Forwarding Rate 65.47 Mpps

16,000 MAC Addresses

Management

Web-based management interface

Industry-standard CLI accessible via Telnet or Local Serial Port

SNMPv1, SNMP v2c, SNMPv3 supported

USB Drive Support: Auto-Configuration, Firmware

4 RMON groups supported (history, statistics, alarms, and events)

TFTP transfers of firmware and configuration files

Dual firmware images on-board

Multiple configuration file upload/download supported

Statistics for error monitoring and performance optimization including port summary tables

BootP/DHCP IP address management supported

LLDP-MED

SNTP

Security

User-definable settings for enabling or disabling Web, SSH, Telnet, SSL management access

Port-based MAC Address alert and lock-down

IP Address filtering for management access via Telnet, HTTP, HTTPS/SSL, SSH, and SNMP

RADIUS and TACACS+ remote authentication for switch management access

SSLv3 and SSHv2 encryption for switch management traffic

MAC and IP based ACLs, Time controlled ACLs

Features:

Supports jumbo frames up to 10K bytes

IPv6 Host Support

IPv4 Support

Spanning Tree (IEEE 802.1D) and Rapid Spanning Tree (IEEE 802.1w)

sFlow

IEEE 802.1Q tagging and port-based, up to 4,000 user-configurable VLANs

Quality of Service: 8 priority queues per port, Layer 2 Trusted Mode (IEEE 802.1p tagging), Layer 3 Trusted Mode (DSCP)

IGMP v1/v2 snooping

IGMP snooping for IP multicast support

Static IP Multicast

Redundant Power Supply (Option): possibility to connect min 1 x external redundant Power Supply

Form Factor: Rack mount