



مجلس حقوق الإنسان البحرين

المجلس الوطني لحقوق الإنسان
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#	Requirements
	<ul style="list-style-type: none"> • Proactive Notification: Alerts and notifications for important product updates and issues • Software Update Access: Access to software updates and patches • 3-Year Local Technical Support
	<p>Installation and Professional Service</p> <p><u>Overview</u></p> <p>The desired vendor MUST have at minimum the following full time OEM Certified Professional/Engineer under its payroll to provide all required professional services. All relevant engineer(s) certificates and supporting documents shall be included with the proposal. The engineer(s) shall be available onsite for the duration of the service.</p> <ul style="list-style-type: none"> - HPE Storage Certified - HPE SimpliVity Certified - VMware Certified <p><u>HPE SimpliVity 380 Hardware Startup Service:</u></p> <ul style="list-style-type: none"> • Installation of the HPE SimpliVity hardware: Unpacking the server, inspecting it for damage, and installing it according to product specification • Rack mount the hardware, power cabling and cable management • Installation of any included hardware options. • Provide physical connection of the product to a LAN or WAN • Perform maintenance-related tasks such as firmware updates and HPE iLO configuration. • Do power-on self-tests (POSTs); verification of product operation; and verification that the current device software and firmware are loaded. <p><u>HPE SimpliVity Remote Software and Firmware Update Service:</u></p> <ul style="list-style-type: none"> • The service is required for existing two nodes • Verification of the hypervisor, hardware, software, driver, and environmental prerequisites required for the update of HPE SimpliVity system. • Software and firmware assistance • HPE OmniStack Software • HPE SimpliVity — Arbiter Software • For VMware® environments • HPE SimpliVity plug-in for vCenter Extension server firmware • VMware ESXi™ <p><u>HPE SimpliVity for VMware Remote Software Startup Service:</u></p> <ul style="list-style-type: none"> • Verification of the hypervisor, hardware, software, driver, and environmental prerequisites required for the installation of HPE SimpliVity 380 System • Remote setup, installation, and configuration assistance. • Software installed <ul style="list-style-type: none"> - Supported VMware® ESXi™ version on the HPE SimpliVity node - Supported HPE OmniStack software - HPE SimpliVity and VMware® vCenter™ extension - Server firmware - HPE SimpliVity Arbiter - HPE SimpliVity Deployment Manager • The configuration of the HPE SimpliVity cluster(s) • Assist with production configuration and activation, and perform post-deployment checks to validate the proper health and operation of the HPE SimpliVity 380 implementation.

Requirements

HPE Startup VMware VSphere Essl-Std Service:

- Plan all the necessary activities, including the identification of any prerequisites.
- Installation of one VMware vCenter Server® Appliance™
- Installation of up to four VMware ESXi™ Servers at a single Customer location
- Creation and configuration of one virtual machine (VM)
- Run verification test on the SimpliVity node

HPE Simplivity Workload Migration Service:

- Plan all the necessary activities, including the identification of any prerequisites.
- Migrate existing VMware workload up to 20 VMs on external SAN to the SimpliVity cluster.
- Ensure load balancing on the cluster
- Run verification test on the migrated workload

Knowledge Transfer and Documentation:

- Conduct orientation session on the HPE SimpliVity product and/or technology, including information on basic hardware product usage and hardware features.
- Share best practices for maintaining and optimizing the system.
- Provide knowledge transfer sessions to the IT team, for the delivered professional services.
- Document the implemented solution, including the configuration details, network diagrams, and any customized settings.
- Provide user manuals or guides for day-to-day operations and troubleshooting.

Support and Maintenance:

- Provide on the job training on the support and maintenance processes for the implemented solution.
- Coordinate with OEM support services to ensure seamless support and timely resolution of issues.
- Assist with firmware upgrades, patch upgrades, and provide recommendations for software and hardware upgrades.

2 HCI Core Network Upgrade

02 No's x Core Switch

Preferred Brands: Cisco, Aruba

Interfaces:

- 24-port 10 Gigabit SFP+ Managed Switch
- 4 x 10 Gigabit copper ports
- 1 x GE Out of Band Management Port

Performance:

- The device shall support minimum 480Gbps switching capacity
- The device shall support minimum 240mpps throughput
- The device shall have minimum 3MB packet buffers
- The device shall have minimum 256MB flash and 512MB DRAM

Layer 2 Features and Protocols:

- STP, RTSP, MSTP, PVST, IEEE 802.3ad LAG
- 802.1Q VLAN, Voice VLAN
- DHCP Relay, IGMP

Layer 3 Features and Protocols:

- IPv4 and IPv6 static routing, 128 IP interfaces

#	Requirements
	<ul style="list-style-type: none"> - CIDR, RIP v2, Policy-Based Routing, DHCP Server <p>Security and Management:</p> <ul style="list-style-type: none"> - SSH v1 and v2, SCP, SSL, IEEE 802.1X, Web based authentication - Secure web management and configuration, mobile app - SNMP v1, 2c and 3 - Dual images for resilient firmware upgrades <p>Form factor: 1 RU, rack mounting accessories should be included 20 No's x 10GE SFP+ SR transceiver module with 5m Multimode fiber optic cable shall be included.</p> <p><u>Warranty and Support:</u></p> <ul style="list-style-type: none"> • Coverage: 3-Year hardware and software support • 24x7 access to online self-serve and self-solve capabilities, 24x7 incident logging • Remote Problem Diagnosis: Technical support assistance for problem diagnosis • Software Update Access: Access to software updates and patches • 3-Year Local Technical Support by certified engineers
	<p>Installation and Configuration</p> <p><u>Installation:</u></p> <ul style="list-style-type: none"> • Installation and configuration service shall be by vendor certified engineers • The installation team should consist of minimum one OEM certified professional engineer with Cisco CCNA or CCNP Certified engineer • The installation team should consist of one OEM certified engineer for Fortinet products that need to be integrated for network security • The engineers shall be available onsite for the duration of the installation • Rack mounting of the switches in designated racks within the premises. • Install uplink cables to hosting switches. <p><u>Configuration:</u></p> <ul style="list-style-type: none"> • Provision and configuration of management • Configuration of VLANs to segregate network traffic and enhance security and performance. • Configure redundant SAN storage network, HCI storage network, DC LAN networks. • Configuration of link aggregation (LACP) where applicable for increased bandwidth and redundancy. • Setup of Quality of Service (QoS) policies to prioritize network traffic and optimize performance. • Implementation of security features including port security, MAC address filtering, and access control lists (ACLs). • Integration with existing network security and routing devices to ensure optimal security and proper routing. • Configure uplinks for distribution switches <p><u>Documentation and Training:</u></p> <ul style="list-style-type: none"> • Provision of detailed documentation outlining network topology, device configurations, VLAN assignments, and security policies. • On-the-job training for technical staff on basic network operations, monitoring, and troubleshooting procedures.

שאלה מס' 2: סוכריות הנתונות למטה.

הוכחה	#
<p>נתונות סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה.</p>	
<p>דוגמה למספרים הנתונים (80 סוכריות)</p>	1
<ul style="list-style-type: none"> סוכריות הנתונות למטה הן סוכריות הנתונות למטה. $80 \times$ (סוכריות הנתונות למטה הן סוכריות הנתונות למטה) סוכריות הנתונות למטה הן סוכריות הנתונות למטה. 	
<p>דוגמה למספרים הנתונים (10 סוכריות)</p>	2
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<p>סוכריות הנתונות למטה הן סוכריות הנתונות למטה (10 סוכריות)</p>	3
<ul style="list-style-type: none"> סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. (סוכריות הנתונות למטה הן סוכריות הנתונות למטה) סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. סוכריות הנתונות למטה הן סוכריות הנתונות למטה. 	

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