

CoG - Production Environment Refresh (160TiB Capacity)

Prepared by:

Centre Technologies

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Prepared for:

City of Galveston

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Quote Information:

Quote #: 049528

Version: 5
 Delivery Date: 10/19/2021
 Expiration Date: 11/30/2021

CoG - Production Environment Refresh (160 TiB Capacity Option): Storage, Servers & Backup

DIR-TSO-3763
 DIR-TSO-4299
 DIR-TSO-4144

*Current CoG used capacity is 99.73TB today, 10/19/2021

Need to verify power, switches and cables

60 Month License / Support Terms on Dell
 39 Month Support on Cohesity (co-termed with existing)
 12 Month Terms on Azure Backup

*Storage Replacement Goal: Replace existing CML SC9000s at Production site and move over to DR site to replace existing legacy EQL

*Server Replacement Goal: Replace (4) existing EOL servers in Production and move to DR site

*Replacement of Archive QNAP - Azure

- Backup existing Cohesity (anything past 14 days)
- Monthly Recurring - 12 Month Terms
- Please note licensing charges start on date of purchase, in advance of project completion

*Cohesity Expansion - 1 Node for Production Goal: Add (1) node inside existing (3) node Cohesity cluster

- 1x available bay open in existing (4) node chassis
- Local production can only hold 14 days as of right now

Storage Replacement

Description	Qty	Price	Ext. Price
Goal: Replace existing CML SC9000s at Production site and move over to DR site to replace existing legacy EQL (on 3rd party support).			
PowerStore T Appliance:			
<ul style="list-style-type: none"> • Effective Capacity = 159.82 TiB • Usable Capacity = 39.96 TiB • Data Reduction Ratio: 4:1 • Rack Units = 2U • Average Capacity Utilization = 93.54% • Performance = 10.4 K IOPS / 81.25 MiB/s • Max Performance = 90.274 K IOPS / 705.26 MiB/s 			

Storage Replacement

Description	Qty	Price	Ext. Price
210-AXXJ Dell PowerStore 500T Model	1	\$3,921.38	\$3,921.38
370-AFXQ 192GB Appliance DIMM 96GB Per Node	1	\$2,108.28	\$2,108.28
528-BTZK PowerStore Base SW	1	\$0.00	\$0.00
406-BBOO 25GBE OPTICAL 4 PORT CARD PAIR	1	\$705.85	\$705.85
450-AKHN LOW LINE POWER SUPPLY RT PAIR	1	\$649.65	\$649.65
343-BBMR BASE UNIT CONFIG KIT	1	\$0.00	\$0.00
709-BCFM Parts Only Warranty 12 Months	1	\$109.72	\$109.72
865-BBYM ProSupport and 4Hr Mission Critical Extension, 48 Month(s)	1	\$51,406.74	\$51,406.74
865-BBYN ProSupport and 4Hr Mission Critical Initial, 12 Month(s)	1	\$12,851.66	\$12,851.66
400-BGGM P1 25X2.5 NVME SED SSD 3.84TB	15	\$4,245.66	\$63,684.90
565-BBJN 10GBASE-T 4 PORT IO MODULE PAIR	1	\$1,000.41	\$1,000.41
565-BBJP 16GB FC 4 PORT IO MODULE PAIR	1	\$1,292.51	\$1,292.51
450-AIOG C13 PWRCORD PAIR NEMA5-15 125V 10A 2METR	2	\$0.00	\$0.00
450-AIOH C19 PWRCORD PAIR NEMA5-15 125V 10A 2Metr	2	\$0.00	\$0.00
210-ATXO AppSync for PowerStore	1	\$0.00	\$0.00
828-5768 ProSupport Mission Critical for AppSync Starter Pack Software Support Contract 5 Years 60 Month Terms	1	\$0.00	\$0.00
528-BYHF AppSync Str Pk for PowerStore=CB	1	\$0.00	\$0.00
828-5724 ProSupport Mission Critical for AppSync Starter Pack Software Support Maintenance 5 Years 60 Month Terms	1	\$0.00	\$0.00
Subtotal:			\$137,731.10

Server Replacement

Description	Qty	Price	Ext. Price
<p>Goal: Replace (4) existing EOL servers in Production and move to DR site:</p> <ul style="list-style-type: none"> • New servers have the same specs as existing servers • No VMware licensing will be needed for (4) new server replacements as long as the (4) older servers are decommissioned at DR site • CoG to confirm Microsoft licensing 			
<p>Dell R750 Server:</p> <ul style="list-style-type: none"> • 2.5" Chassis with up to 16 SAS/SATA Drives • 2x Intel Xeon Gold 5317 3G, 12C/24T, 11.2GT/s, 18M Cache, Turbo, HT (150W) DDR4-2933 • Unconfigured RAID • PERC H745 Controller • Dual, Hot-Plug, Power Supply Redundant (1+1), 1400W, Mixed Mode • iDRAC9 Datacenter 15G • Intel X710-T2L Dual Port 10GbE BASE-T, OCP NIC 3.0 • 5 Year ProSupport NBD • 8x 64GB RDIMM = 512GB Total • 600GB Hard Drive SAS 12Gbps 10k 512n 2.5in Hot-Plug 			
210-AYCG Dell PowerEdge R750 Server	4	\$18,974.51	\$75,898.04
<p>2.5 Chassis : (379-BDTF) SAS/SATA Backplane : (379-BDSS) No Rear Storage : (379-BDTE) No GPU Enablement : (379-BDSR) Trusted Platform Module 2.0 V3 : (461-AAIG) 2.5" Chassis with up to 16 SAS/SATA Drives : (321-BGEZ) Intel Xeon Gold 5317 3G, 12C/24T, 11.2GT/s, 18M Cache, Turbo, HT (150W) DDR4-2933 : (338-CBWN) Intel Xeon Gold 5317 3G, 12C/24T, 11.2GT/s, 18M Cache, Turbo, HT (150W) DDR4-2933 : (338-CBWN) Additional Processor Selected : (379-BDCO) Heatsink for 2 CPU configuration (CPU less than 165W) : (412-AAWE) Performance Optimized : (370-AAIP) 3200MT/s RDIMMs : (370-AEVR) Unconfigured RAID : (780-BCDS) PERC H745 Controller, Front : (405-AAUZ) Front PERC Mechanical Parts, rear load : (750-ACFQ) Performance BIOS Settings : (384-BBBL) UEFI BIOS Boot Mode with GPT Partition : (800-BBDM) Standard Fan x6 : (750-ADGK) Dual, Hot-Plug, Power Supply Redundant (1+1), 1400W, Mixed Mode : (450-AJHG) Riser Config 2, Half Length, 4x16, 2x8 slots, SW GPU Capable : (330-BBRX) R750 Motherboard : (329-BFGT) OpenManage Enterprise Advanced : (528-BIYY) iDRAC9 Datacenter 15G : (528-CRVW) Intel X710-T2L Dual Port 10GbE BASE-T, OCP NIC 3.0 : (540-BCRS) PowerEdge 2U LCD Bezel : (325-BEBV) Dell EMC Luggage Tag : (350-BCED) BOSS-S2 controller card + with 2 M.2 240GB (RAID 1) : (403-BCMG) BOSS Cables and Bracket for R750 (Riser 1) : (470-AERR) No Quick Sync : (350-BBYX) iDRAC, Factory Generated Password : (379-BCSF) iDRAC Group Manager, Disabled : (379-BCQY) VMware ESXi 6.7 U3 Embedded Image (License Not Included) : (634-BRIO) No Media Required : (605-BBFN) ReadyRails Sliding Rails : (770-BBBQ) No Systems Documentation, No OpenManage DVD Kit : (631-AACK) PE R750 No CCC or CE Marking : (389-DYHD)</p>			

Server Replacement

Description	Qty	Price	Ext. Price
Dell/EMC label (BIS) for 2.5" Chassis : (389-DYHF) US Order : (332-1286) Custom Configuration : (817-BBBB) Dell Hardware Limited Warranty Plus Onsite Service : (852-7274) ProSupport Next Business Day Onsite Service After Problem Diagnosis 5 Years : (852-7288) ProSupport 7x24 Technical Support and Assistance 5 Years : (852-7308) On-Site Installation Declined : (900-9997) (8) 64GB RDIMM, 3200MT/s, Dual Rank : (370-AEVP) 600GB Hard Drive SAS 12Gbps 10k 512n 2.5in Hot-Plug : (400-BIFV) (2) Power Cord - C13, 3M, 125V, 15A (North America, Guam, North Marianas, Philippines, Samoa, Vietnam) : (450-AALV) (2) C13 to C14, PDU Style, 12 AMP, 6.5 Feet (2m) Power Cord, North America : (492-BBDI) Intel X710-T2L Dual Port 10GbE BASE-T Adapter, PCIe Low Profile : (540-BCRQ)			

Subtotal: **\$75,898.04**

Azure Backup

Description	Qty	Recurring	Ext. Recurring
Microsoft Azure Instances	1	\$793.15	\$793.15

Based on Azure instances and quantities.

*Switched from Cool Access Tier to Archive Access Tier:

Microsoft Azure Estimate		
COG - Cohesity Storage v2		
Service type	Description	Estimated Monthly Cost
Storage Accounts	Block Blob Storage, General Purpose V2, LRS Redundancy, Archive Access Tier, 120 TB Capacity - Pay as you go, 100,000 Write operations, 100,000 List and Create Container Operations, 100,000 Read operations, 100,000 Archive High Priority Read, 1 Other operations. 1,000 GB Data Retrieval, 1,000 GB Archive High Priority Retrieval, 1,000 GB Data Write	\$793.15
	Total	\$793.15

Centre Microsoft Azure Subscription with Insights	1	\$0.00	\$0.00
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Maximizing your Microsoft Azure investment with Centre Value-Add for Infrastructure-as-a-Service (IaaS).

- Detailed Billing Reports
- Summarized Billing Support and Reporting
- Comprehensive Cloud Infrastructure Reports and Executive Summaries

Azure Backup

Description	Qty	Recurring	Ext. Recurring
Centre Microsoft Azure Premium Bundle Dynamic monthly subscription for Microsoft Azure Infrastructure-as-a-Service (IaaS), including: Operational Intelligence: <i>Includes enterprise-grade Azure monitoring tools.</i> <ul style="list-style-type: none"> • 24x7 "Always-on" Performance Monitoring • Efficiency and Security Intelligence • Application, Usage and Network Connectivity Metrics • Backup Recovery Verification Operational Care and Optimization: <ul style="list-style-type: none"> • 24x7 "Always-on" Live Assistance • Cost Optimization Analysis and Waste Remediation • Incident Recovery and Root Cause Analysis • Backup and Disaster Recovery Delivery • Connectivity, Virtual Machine (VM), Database and App Services Assistance Deployment Acceleration: <ul style="list-style-type: none"> • Resource Build-Outs (including Virtual Machines and VPNs) • Secure by Default Security Configurations • Connectivity and Network Setups • Provisioning • Turnkey Configuration Management • Detailed Change Management Controls and Reports <i>Subscription fee based on a percentage of consumption and spend in Microsoft Azure.</i>	1	\$230.01	\$230.01
Centre Security Cloud Containment (CDR) Recurring 24x7 cloud monitoring, threat containment and remediation guidance across your entire cloud ecosystem, including hybrid, hosted virtual machines, Microsoft 365, Amazon Web Services (AWS), Microsoft Azure and Google Cloud, including: - Cloud Detection and Response (CDR) Licensing - 24x7 "Always-on" Cloud Detection and Response - Proactive Machine-Learning Threat Hunting - Continuous Human-Driven Threat Hunting - Misconfiguration Analysis and Remediation Guidance - Traffic and Activity Analysis - Automatic Threat Containment - Remediation Guidance and Support - Forensic Investigation and Remediation Verification This security service extends Centre SOCaas Network (NDR) Threat Containment to your entire cloud environment, including hybrid, hosted virtual machines, Microsoft 365, Amazon Web Services (AWS), Microsoft Azure and Google Cloud.	1	\$75.93	\$75.93
Monthly Subtotal:			\$1,099.09

Cohesity - 1 Node Expansion

Description	Qty	Price	Ext. Price
Goal: Add (1) node inside existing (3) node Cohesity cluster <ul style="list-style-type: none"> • 1x available bay open in existing (4) node chassis • Local production can only hold 14 days as of right now 			
C4600-SFP-NODE COHESITY C4600-SFP EXPANSION NODE WITH 36 TB SECURE ERASE HDD, 1.6 TB PCI-E FLASH, 128 GB RAM, 4X 10GBE SFP+, 1X IPMI; HARDWARE ONLY	1	\$4,274.99	\$4,274.99
CS-P-C4600-SFP-NODE PREMIUM (24X7) SUPPORT FOR C4600 - Co-termed 39 Month Terms - co-termed with existing support	1	\$1,616.06	\$1,616.06
CBL-10G-RJ45-007 CABLE, 10G, RJ45, CAT6 ETHERNET, 7FT	2	\$3.74	\$7.48
Subtotal:			\$5,898.53

Services

Description	Qty	Price	Ext. Price
Storage Replacement - Installation / Configuration Services Dedicated consultant specializing in datacenter modernization and upgrades for servers, networking, virtualization, hybrid and cloud infrastructure, including delivery of strategy, design, deployment, maintenance, verification, documentation, and post-deployment support. Includes: <ul style="list-style-type: none"> • Senior Technical Consultant • Project Manager • Installation / configuration of net new PowerStore storage array • Moving existing CML Production over to DR site <i>Scope of Work documentation to be provided for complete details and service inclusions.</i>	1	\$28,700.00	\$28,700.00
Server Replacement - Installation / Configuration Services Dedicated consultant specializing in datacenter modernization and upgrades for servers, networking, virtualization, hybrid and cloud infrastructure, including delivery of strategy, design, deployment, maintenance, verification, documentation, and post-deployment support. Includes: <ul style="list-style-type: none"> • Senior Technical Consultant • Project Manager • Installation of (4) new hosts • Remove old hosts / handoff to CoG for transport to DR site <i>Scope of Work documentation to be provided for complete details and service inclusions.</i>	1	\$11,050.00	\$11,050.00

Services

Description	Qty	Price	Ext. Price
Azure Backup Environment Setup Dedicated consultant specializing in datacenter modernization and upgrades for servers, networking, virtualization, hybrid and cloud infrastructure, including delivery of strategy, design, deployment, maintenance, verification, documentation, and post-deployment support. Includes: <ul style="list-style-type: none"> Senior Technical Consultant Project Manager Setup of Azure environment <i>Scope of Work documentation to be provided for complete details and service inclusions.</i>	1	\$1,100.00	\$1,100.00
Cohesity Expansion (1 Node) - Installation / Configuration Services Dedicated consultant specializing in datacenter modernization and upgrades for servers, networking, virtualization, hybrid and cloud infrastructure, including delivery of strategy, design, deployment, maintenance, verification, documentation, and post-deployment support. Includes: <ul style="list-style-type: none"> Senior Technical Consultant Project Manager Installation / configuration - Cohesity expansion for Production - 1 node <i>Scope of Work documentation to be provided for complete details and service inclusions.</i>	1	\$2,210.00	\$2,210.00

Subtotal: **\$43,060.00**

Quote Summary

Description	Amount
Storage Replacement	\$137,731.10
Server Replacement	\$75,898.04
Cohesity - 1 Node Expansion	\$5,898.53
Services	\$43,060.00

Total: **\$262,587.67**

Monthly Expenses Summary

Description	Amount
Azure Backup	\$1,099.09

Monthly Total: **\$1,099.09**

This Quote together with the Master Service Agreement and any Service Attachment, amendment, or schedule, all of which are incorporated herein by reference (collectively, the "Agreement") is between Centre Technologies, Inc. a Texas company (sometimes referred to as "we,"

“us,” “our,” OR “Provider”), and the customer found on the signature block at the end of this Quote (sometimes referred to as “you,” “your,” OR “Client”). This Agreement is effective as of the date Client has signed below (the “Effective Date.”). Both Provider and Customer are sometimes referred to individually as a “Party”, or together as the “Parties”. Any capitalized terms in this Quote not directly defined are referred to in the applicable “Agreement” on the last page of this Quote. If there is a conflict between this Quote, the Master Services Agreement and any Service Attachment, amendment, or schedule, this Quote will control.

Client hereby acknowledges that all of the Agreements and Quotes contained herein are subject to the applicable taxes (e.g., international, federal, state and local), shipping, handling and other associated fees. The Uniform Commercial Code, as adopted by the Texas Business and Commerce Code, shall apply where appropriate. Provider reserves the right to cancel or amend orders arising from pricing or other errors contained in the attached Quote and will notify the Client.

This Order and its accompanying Agreements supersede all prior negotiations, discussions, proposals, communications, or previous Orders or Agreements between the parties.

By signing below, the parties acknowledge, represent, and warrant that they have read and agree to the terms and conditions of the Agreement, including all related agreements, schedules, Service Attachments, and/or amendments identified at the end of this Quote. The parties hereby represent that electronic signatures to this Quote shall be relied upon and serves to bind them to the obligations stated herein. Each party hereby warrants and represents that he/she/it has the express authority to execute this Agreement(s).

E-Signature Confirmation for City of Galveston

Signature: _____
Name: Hope Dean _____
Title: _____
Date: _____