Proposal for

The City of Central Falls

**Server Replacement and Offsite Backup Project-
HPE Financial Services**

Mark Centracchio
VP, Sales
The Apex Technology Group
2158 Plainfield Pike, Suite 1
Cranston, RI 02921
401-680-4612

April 1, 2020

Project Background

The City of Central Falls has two physical servers (hosts). In the past, these hosts have been compromised with ransomware and have not all been rebuilt.

Additionally, the Central Falls Fire Department host experienced a hardware failure and is no longer operational. Apex has temporarily moved the FD host to one of the City Hall hosts so the FD could operate.

This is a major concern because the City Hall host is aging and does not have the resources to provide reliable, secure services to City Hall or the DPW. Adding the FD to this server is putting more burden on old, outdated and compromised equipment, potentially leading to a hardware failure.

Also of concern is the lack of offsite backups of the City's data. If another cyber-attack were to occur (similar to the several that have already occurred), the City may lose access to all of its data.

This proposal seeks to address both issues by replacing/consolidating the servers into one and instituting an automatic offsite backup of the City's data to Microsoft Azure.

Scope of Work

Apex will:
- Generate end-state design drawings and documentation
- Generate detailed task list
- Unbox, assemble, and install new server
- Perform initial out of box configuration of new server
- Build 4 new virtual machines on host server
- Migrate domain controller roles and features to new virtual machine
- Migrate third party applications to new virtual machines
- Migrate file and print services to new virtual machines
- Decommission old virtual machines and archive last good backup
- Install new disk to CFHOST1 and rebuild with Windows Server 2019 OS
- Add CFHOST1 as replica target for new virtual machines to replicate between buildings
- Add Azure Block Storage Capacity Tier for Off-site backup archive
- Create new scale-out backup repository and configure capacity tier offload
- Modify backup jobs to use new backup repository
- Kick-off initial backup's and monitor.
- Update documentation with any changes made during implementation

Server Specifications

Module	Description
PowerEdge T640	PowerEdge T640 Server
Motherboard	PowerEdge T640 MLK Motherboard
Chassis Configuration	Chassis with up to 8" x 3.5 SAS/SATA Hard Drives, Tower Configuration
Shipping	PowerEdge T640 Shipping
Shipping Material	PowerEdge T640 Shipping Material
Regulatory	PowerEdge T640 CE, CCC, BIS Marking
Processor	Intel Xeon Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400
Additional Processor	Intel® Xeon® Silver 4214 2.2G, 12C/24T, 9.6GT/s, 16.5M Cache, Turbo, HT (85W) DDR4-2400
Processor Thermal Configuration	Standard HS for Less = 150W,Qty 2
Memory DIMM Type and Speed	2933MT/s RDIMMs
Memory Configuration Type	Performance Optimized
Memory Capacity	(8) 16GB RDIMM, 2933MT/s, Dual Rank
RAID Configuration	C4, RAID 5 for 3 or more HDDs or SSDs (Matching Type/Speed/Capacity)
RAID/Internal Storage Controllers	PERC H730P Adapter RAID Controller, 2GB NV Cache
Hard Drives	(8) 1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive, 3.5in HYB CARR
Operating System	Windows Server® 2019 Datacenter,16CORE,FI,No MED,UnLTD VMs,NO CALs, Multi Language
Licenses	(4) Windows Server® 2019 Datacenter Edition,Add License,2CORE,NO MEDIA/KEY
OS Media Kits	Windows Server 2019 Datacenter,16CORE,Digitally Fulfilled Recovery Image, Multi Language
OS Media Kits	Windows Server® 2019 Datacenter,16CORE,Media Kit, Multi Language
Client Access Licenses	50-pack of Windows Server 2019/2016 User CALs (Standard or Datacenter)
Embedded Systems Management	iDrac9, Enterprise
Group Manager	iDRAC Group Manager, Disabled
Password	iDRAC,Legacy Password
iDRAC Service Module	iDRAC Service Module (ISM), Pre-Installed in OS
Additional Network Cards	On-Board Dual-Port 10GbE LOM
Power Supply	Dual, Hot-plug, Redundant Power Supply (1+1), 750W
Power Cords	(2) NEMA 5-15P to C13 Wall Plug, 125 Volt, 15 AMP, 10 Feet (3m), Power Cord, North America
BIOS and Advanced System Settings	Power Saving Dell Active Power Controller
Advanced System Configurations	UEFI BIOS Boot Mode with GPT Partition
Dell Services: Hardware Support	Basic Next Business Day 36 Months, 36 Month(s)
Dell Services: Extended Service	ProSupport and 4Hr Mission Critical, 60 Month(s)

Pricing

Description	Qty	Unit Price	Extended Price	
Equipment				
PowerEdge T640 Server - See Full Specifications Above	1	$19,933.00	$19,933.00	
1TB 7200 RPM 64MB Cache SAS 6Gb/s 2.5" Internal Enterprise Hard Drive	4	$66.00	$264.00	
Hard Drive Caddies for Cisco Server CF HOST 1 (UCS C220 M4S)	4	$96.00	$384.00	
Subtotal			**$20,581.00**	
Apex Professional Services:				
Installation, configuration, testing and project management	1		$13,100.00	*
Subtotal			**$13,100.00**	*
Total One-Time Charges			**$33,681.00**	*

	Qty	Price/ Month	Monthly Price
Microsoft Azure Block Blob Storage, General Purpose V2, LRS Redundancy, Cool Access Tier, 8,000 GB Capacity			
	1	$168.00	$168.00
Total Monthly Price			**$168.00**

*This is a time and materials quote. Central Falls will be invoiced for the actual amount of time it takes to complete the project at the rate of $100.00 per hour (in accordance with RI MPA #230). The total cost of this project will not exceed $33,681.00 as long as the scope does not change.

Notes: Current amount of backed up data: 8TB
Each additional TB of data adds $24.60 to the Microsoft Azure monthly fee

Financing Options – Monthly Arrears Payments & $1.00 Buyout for All Options* - HPE Financial Services

	Term	Monthly Payment
Equipment Only:	24 months	$890.75
	36 months	$604.67
Engineering Only:	24 months	$566.97
	36 months	$384.88
Total Project:	24 months	$1,457.58
	36 months	$989.55

*Financing monthly payments are in addition to the Microsoft Azure $168.00 monthly fee indicated above.

Project Approvals

The City of Central Falls agrees to engage The Apex Technology Group, Inc. to provide the equipment and services described in this proposal for a cost of $33,681.00 (T&M-NTE) and $168.00 per month.

Financing Options:

Equipment Only: 24 months or 36 months – circle the desired term and initial here to choose_____

Engineering Only: 24 months or 36 months – circle the desired term and initial here to choose_____

Total Project: 24 months or 36 months – circle the desired term and initial here to choose___ BJA ___

Pricing in this quote is valid until April 17, 2020.

- Terms are net 30 days and interest penalties apply to late payments.
- Please note that state sales taxes and/or shipping charges have not been included and will be charged in the final price, if applicable. Required travel and incidental expenses will be billed separately with prior approval of The City of Central Falls.
- If a greater scope of work is required, Apex and The City of Central Falls will agree to the incremental scope and Apex will invoice The City of Central Falls for any changes.
- The Apex Technology Group, Inc., its officers, agents, employees and contractors cannot be held liable, financially or otherwise, while providing IT services to The City of Central Falls. The following costs are not included in this proposal.
    - Required hardware or software necessary to complete project but not quoted in this proposal
    - Support costs that may be applied by other vendors
- The scheduling of Apex personnel will be determined at the time of agreement signatures.

The undersigned are authorized to approve this agreement:

For The Apex Technology Group, Inc.

Name: ___Michael D. O'Connell___   Date: ___4/18/2020___

Signature: _____

Approved as to Form and Correctness
Matthew Jerzyk, City Solicitor

For The City of Central Falls

Name: ___James A Diossa___   Date: ___4-17-2020___

Reviewed
s/Barbara J Adddison
Director of Finance
04172020

Signature: _____