2-8-24

PROPOSAL FOR: City of Watertown Police Dept

PROJECT DESCRIPTION: Digital Evidence File Storage Solution

Executive Summary

Digicorp is pleased to propose a file storage solution for the Watertown PD's digital evidence needs. WPD needs to upgrade their existing digital evidence storage. There is urgency in getting a new solution deployed since the two current NAS appliances are running out of disk space (there is 17.2 TB of data there today). As a result, the WPD users are putting much of our digital evidence documentation on hold while waiting for this to be resolved. With this replacement, more consideration needs to be given to compliance with CJIS rules as the current solution is not compliant. Digicorp recommends a physical server with ample storage running Windows Server 2022 in order to achieve compliance with those requirements.

Once implemented, this solution will function much the same way as the current solution, but the intention is that the server will be domain-joined, and access granted via group to this server. We would recommend enabling ReFS with file checksums for the data drive. FIPS mode would be enabled at the OS level, with SMB encryption enabled/required. Our plan is to utilize FIPS-enabled BitLocker encryption, which is included in Windows Server OS. We will need Windows Server 2022 Standard licensing (1 x 16-core pack) as well. Please note: the drives for the existing NAS appliances really should be physically destroyed, not just wiped.

For a backup solution, we are proposing the Veeam Backup Essentials software which offers a simple, portable, and highly affordable licensing option. This licensing is designed for small environments consisting of 50 "workloads" or instances or less, and includes Enterprise Plus Edition features along with 24x7 Production level (24x7) support together under one subscription. I have included 1 and 3 year subscription term options for your consideration. The licensing for Backup Essentials is packaged in bundles of five instances or workloads of portable licenses. A workload consists of any one of the following:

- 1 virtual machine (VM)
- 1 cloud instance/VM
- 1 database or application
- 1 physical server
- 3 laptops/workstations
- 500 GB of unstructured data

In addition to Veeam, we recommend a cloud-based archiving solution from Wasabi. This will provide a copy of your data off-site and allow you to recover files as a DR strategy, should your on-premises Veeam server experience a failure. This is a secure, affordable, and easy-to-use cloud storage solution without any egress fees for accessing your data. It is sold as a monthly service in 1TB storage increments.

Please review the following Statement of Work and pricing summary and let me know of any questions. We thank you for the opportunity to present you with this solution. As your long time, local technology partner, we are committed to designing, implementing and supporting leading technology solutions that represent the best overall value for your organization.

Statement of Work (From Digicorp Engineer, William Lentz):

Recommended Solution:

Hardware: HPE ML110 Gen 11 (Tower-based, located in the evidence storage room)
- Xeon 3508 CPU (4410Y would also work if it's more cost effective)
- 64G RAM
- 8 LFF bays
- MR408i RAID controller w/ battery
- NS204i Boot controller
- Dual 500W power supplies
- iLO Advanced
- Recommend 8 x 16TB LFF SAS hard drives, which will yield usable space of ~87 TB after configuring in a RAID 6 array. This could be reduced if desired.

Software:
- 1 x Windows Server 2022 Standard Edition – 16-Core license pack
- Veeam Backup Essentials – licensing for 5 workloads (minimum of 5 workloads/instances required)
- Wasabi Cloud Storage – 18TB starting out (sold in 1TB increments) – 17.2 TB of data on the current NAS solution today.

Labor Estimates

Prepare server at Digicorp – 6 hours.
Onsite installation – 6 hours (drive remapping, domain joining, BitLocker configuration, etc.)
Migration of existing evidence data to new solution – 2-4 hours.
Configuration of Veeam/Wasabi Backup – 4 hours.

Total Labor Estimate = 18 - 20 hours

Pricing Summary

1.) HPE ML110 G11 Server

QTY	ITEMS/DESCRIPTION	MSRP (Unit)	Sales Price (Unit)	Sales Price (Extended)
1	HPE Smart Buy Proliant ML110 G11 Tower Server – configured with the following: • CPU: 1 x Intel® 4th Generation Xeon-Bronze 3408U Processor (1.8 GHz/8-core) • Memory: 16 GB (1 x 16GB modules out of 16 total DIMM Slots) Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Registered Smart Memory Kit • Drive Chassis: 4 x Total LFF 3.5" Hard Drive Bays (hard drives sold separately) • Storage Controller: Embedded 8 SATA ports controller with Intel® VROC Software RAID (Can only support SATA drives) • Network Controller: Embedded 2-Port 1GbE BCM5720 networking adapter • Power: 1 x HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply • Security: TPM (Trusted Platform Module) • Management: HPE iLO Standard with Intelligent Provisioning (embedded), HPE OneView Standard (requires download); HPE iLO Advanced and HPE OneView Advanced (require licenses) • Warranty: 3-year parts, 3-year labor, 3-year onsite support with next business day response	$ 4,799.42	$ 2,040.00	$ 2,040.00
3	HPE 16GB Single Rank x8 DDR5-4800 CAS-40-39-39 EC8 Reg. Smart Memory Kit	$ 1,065.00	$ 279.00	$ 837.00
1	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller – *Recommended to support SAS drives*	$ 2,619.00	$ 789.00	$ 789.00
1	HPE 96W Smart Storage Battery with 260mm cable kit – *Required for MR408i-o storage controller*	$ 234.00	$ 86.00	$ 86.00
1	HPE ProLiant ML110 Gen11 4LFF Drive Cage Kit – *Needed to support up to 8 hot plug hard drives*	$ 244.00	$ 244.00	$ 244.00
8	Seagate Exos x18 16 TB Hard Drive - 3.5" Internal Hard Drive - SATA (SATA/600) - 7200rpm - 261 MB/s Maximum Read Transfer Rate - Hot Swappable - 5 Year	$ 447.98	$ 407.00	$ 3,265.00

Qty		Sales Price (Unit)	Sales Price (Unit)	Sales Price (Extended)
	Warranty – *To be configured in a resilient RAID 6 array to yield ~87 TB of useable storage capacity*			
8	HPE Low Profile 3.5 LFF Hard Drive Carrier – *Required for installation of Seagate hard drives into ML110 G11 Server*	$ 63.16	$ 46.00	$ 368.00
1	HPE NS204i-u Gen11 NVMe Hot Plug Optimized Storage Boot Device	$ 1,994.00	$ 721.00	$ 721.00
1	HPE NS204i-u Gen11 Enablement Kit – *Required for NS204i-u OS Boot Device*	$ 64.00	$ 58.00	$ 58.00
1	HPE ML110 Gen11 Redundant Fan Kit – *Required for NS204i-u OS Boot Device*	$ 209.00	$ 108.00	$ 108.00
1	HPE 500W Flex Slot Platinum Hot Plug Low Halogen Redundant Power Supply	$ 383.00	$ 116.00	$ 116.00
1	HPE iLO Advanced Server License (Electronic) with 3 Year 24x7 Tech Support & SW Updates	$ 469.00	$ 198.00	$ 198.00
	Subtotal			**$ 8,830.00**

2.) Microsoft Windows Server Licensing

Qty	ITEMS/DESCRIPTION	Sales Price (Unit)	Sales Price (Extended)
1	Microsoft Windows Server 2022 Standard Edition 16-Core License (Perpetual, Commercial): Covers 2 cores on a single processor - *every processor core on a physical host server will need to be covered with a minimum of 16 cores on each server; Standard edition provides virtualization rights to 2 VMs for each fully licensed server*	$ 1,069.00	$ 1,069.00
	Subtotal		**$ 1,069.00**

3.) Veeam Licensing Options (1 and 3 Year Subscription Term Options):

Qty	DESCRIPTION	MSRP (Unit)	Sales Price (Unit)	Sales Price (Extended)
1	Veeam Backup Essentials & Production Support 1 Year License (Veeam Universal License, Public Sector) - Includes Enterprise Plus Edition features and Supports up to 5 instances/workloads; Production Support available 24x7x365	$ 385.20	$ 385.00	$ 385.00
	Subtotal (1 Year Veeam Subscription Option)			**$ 385.00**
Alternative 3 Year License Option:				
1	Veeam Backup Essentials & Production Support 3 Year License (Veeam Universal License, Public Sector) - Includes Enterprise Plus Edition features and Supports up to 5 instances/workloads; Production Support available 24x7x365	$ 1,155.60	$ 1,155.60	$ 1,155.60
	Subtotal (3 Year Veeam Subscription Option)			**$ 1,155.60**

4.) Wasabi Cloud Storage – Recommended for Off-Site Storage for Archiving/DR purposes

Qty	DESCRIPTION	MSRP (Unit)	Sales Price (Unit)	Sales Price (Extended)
18	Wasabi Cloud Storage Subscription – 1 TB of Storage – Monthly Billing (In Arrears) – No Fees for egress or API requests, which means you won't pay to access your data	$ 7.50 /month	$ 7.00 /month	$ 126.00 /month
	Subtotal (Monthly Subscription)			**$ 126.00 /month**

5.) Digicorp Professional Installation Services – Labor Estimate

Est. Hrs	DESCRIPTION	Unit Cost	Extended Cost (Est.)
18-20 hrs	Digicorp Labor Estimated to Complete the Statement of Work listed above	$ 122.00 /hr	$ 2,440.00
1	Miscellaneous Costs: Estimated miscellaneous costs to cover any additional time needed to complete this project scope above and beyond what has been estimated above, onsite trip charges, higher labor rates due to after-hours work, project management, etc.	$ 600.00	$ 600.00
	Subtotal		**$ 3,040.00**

PROJECT NOTES: Freight and taxes (if applicable) are not included.

Labor is estimated for budgetary purposes and will be billed on a T&M basis at an hourly rate of $122 /hr for work performed during normal business hours (8:00am – 4:30pm, M – F); A labor rate of $159 /hr will apply for work performed outside of normal business hours; Trip charges are applicable for onsite visits (if needed).

Any changes to the design or scope of work presented in this proposal may affect final price.

Pricing is valid through 2/29/24.