

REQUEST FOR PROPOSALS

Application Delivery System

RFP Number: 09230-417-035 Issue Date: November 21st, 2023

Closing Date and Time: Proposals must be received no later than 2:00 PM

Newfoundland Time (NT) on December 8th, 2023.



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1.0. INTRODUCTION

1.1. INTENT

The C-NLOPB is seeking Proposals for the supply and delivery of equipment and licensing for a Nutanix-based Application Delivery System.

The intent of this RFP is to modernize the Application Delivery System infrastructure at the C-NLOPB. Two Nutanix-based solutions have been identified which may be used, as outlined in APPENDIX "A" – SCOPE OF WORK. We are seeking quotes for both options, and invite interested Proponents to submit a Proposal for either or both qualified options.

More detail on the opportunity and requirements can be found within this RFP.

1.2. OVERVIEW

The C-NLOPB is responsible, on behalf of the Government of Canada and the Government of Newfoundland and Labrador, for the regulation of petroleum-related activity in the Canada-Newfoundland and Labrador Offshore Area.

The C-NLOPB's authority is derived from the legislation implementing the February 11, 1985 Atlantic Accord between the two governments. The Canada-Newfoundland and Labrador Atlantic Accord Implementation Act and the Canada-Newfoundland and Labrador Atlantic Accord Implementation Newfoundland and Labrador Act provide for joint management of the Canada-Newfoundland and Labrador Offshore Area.

Pursuant to the legislation above, the C-NLOPB regulates in the areas of offshore workplace health and safety, environmental protection, resource management and industrial benefits.

While funded by both the federal and provincial governments, the C-NLOPB operates as an independent entity with the powers of a corporation under the Canada Business Corporations Act, and is responsible for recovering its costs in regulating offshore petroleum activity from applicants and operators on behalf of both governments.

For additional information, visit the C-NLOPB's website at http://www.cnlopb.ca.

2.0. DEFINITIONS

- 2.1. In this RFP, the following definitions apply:
 - (a) "Closing Date and Time" means the date and time as set out on the cover page of this RFP.



- (b) "C-NLOPB" means the Canada-Newfoundland and Labrador Offshore Petroleum Board.
- (c) "Contract" means the written agreement between the C-NLOPB and the successful Proponent to perform the Work which is contemplated by this RFP.
- (d) "Proponent" means a person or entity responding to this RFP with a Proposal.
- (e) "Proposal" means the Proponent's response to this RFP and includes any attachments.
- (f) "Request for Proposal" or "RFP" means this document, including any appendices and addenda.
- (g) "Work" means the Scope of Work attached as Appendix "A" of this RFP.
- 2.2 Headings are for convenience only and do not affect the meaning or interpretation of the sections.
- 2.3 Words in the singular include the plural and vice-versa.

3.0. AMENDMENT OR CANCELLATION

- 3.1. The C-NLOPB reserves the right to modify the terms of this RFP at any time prior to the Closing Date and Time in its sole discretion. It is the responsibility of the Proponent to monitor the C-NLOPB's website (www.cnlopb.ca) under the heading <a href="www.the the Proponent to modification to this RFP issued up to, and including, the Closing Date and Time. The C-NLOPB may extend the Closing Date and Time in the event it issues any amendment or modification.</p>
- 3.2. This RFP may be cancelled in whole or in part at any time by the C-NLOPB in its sole discretion. Any such cancellation shall be without penalty or cost to the CNLOPB.

4.0. RFP CLOSING AND DELIVERY

4.1. One (1) electronic copy of the Proposal, including any supporting documentation, must be [received at the following email information@cnlopb.ca] with the cover page of the Proposal being clearly marked as follows:



Canada-Newfoundland and Labrador Offshore Petroleum Board
240 Waterford Bridge Road
The Tower Corporate Campus – West Campus Hall - Suite 7100
St. John's, NL A1E 1E2

Attention: Rodney Rees, Information Technology Manager
RFP- Application Delivery System
RFP Number: 09230-417-035

Closing Date and Time: 2:00 PM Newfoundland Time (NT) on December 8th, 2023

5.0. SUBMISSION REQUIREMENTS

- 5.1. Proponents must comply with the instructions provided in this RFP. Compliant Proposals are those that clearly demonstrate a thorough understanding of this RFP and its stated requirements and criteria.
- 5.2. Proposals must be professional, clear and meet the requirements of this RFP. A thorough response to all mandatory elements is required for the Proposal to be complete. A Proposal risks being judged incomplete and may be disqualified if:
 - instructions are not adhered to;
 - it does not contain sufficient detail;
 - it does not contain all the required information;
 - criteria are not clearly addressed in the format required as described in section 6.0 of this RFP.
- 5.3. Proposals must provide the name, mailing address, email address and telephone number of the Proponent's contact person.
- 5.4. Proposals must be signed by an authorized representative of the Proponent. Unsigned Proposals shall not be considered.
- 5.5. INTENTIONALLY OMITTED
- 5.6. INTENTIONALLY OMITTED
- 5.7. Where the Proponent is a corporation, the Proponent may be asked to provide a certificate of good standing from the Registry of Companies for the Province of Newfoundland and Labrador and confirmation it is in good standing with Workplace NL, prior to entering into a Contract if the Proponent is successful.
- 5.8. Proponents may include supporting documentation cross-referenced to their Proposal to assist in the evaluation.



5.9. The C-NLOPB reserves the right to print copies of the Proposal from the electronic copy provided by the Proponent in whole or in part.

6.0. REQUIRED PROPOSAL FORMAT

- 6.1. To ensure consistency and fairness, Proponents are to submit Proposals in the following format:
 - (a) Title Page
 - (b) Table Of Contents
 - (c) Executive Summary (a one or two page summary of the key features of the Proposal)
 - (d) Checklist of Mandatory Requirements in the form set out in Appendix "B".
 - (e) Proponent's response (the body of the Proposal, including pricing see Appendix "C")
 - (f) Appendices (if any), tabbed and referenced.

7.0. QUESTIONS AND CLARIFICATION

- 7.1. All inquiries related to this RFP must be directed via email to Rodney Rees, Information Technology Manager, at the following email address: rrees@cnlopb.ca. Inquiries must be received by November 30th, 2023 to allow sufficient response time from the C- NLOPB, otherwise a response cannot be guaranteed.
- 7.2. All questions must include the Proponent's name and address, contact person's name, telephone number and email address, and must identify the specific section and page number of this RFP in question.
- 7.3. To the extent that the C-NLOPB considers that the answer to a question may clarify any aspect of this RFP or assist in the preparation of Proposals by other Proponents, an addenda will be posted on the C-NLOPB's website which will be part of this RFP. The C-NLOPB may not answer a question where it considers the information requested is not required to prepare a response to this RFP, or where the answer to the question posed may be found in this RFP.
- 7.4. The C-NLOPB reserves the right in its sole discretion to clarify any Proposal after the Closing Date and Time by seeking further information from that Proponent, without becoming obligated to clarify or seek further information from any or all other Proponents. However, Proponents are cautioned that any clarifications sought will not be an opportunity to correct or amend the Proposal in any substantive manner.



8.0. TERMS AND CONDITIONS

- 8.1. Submitting a Proposal indicates acceptance of all the terms and conditions set out in this RFP. Any Proposals received will not attract responsibilities or rights on the part of the Board or Proponents under what has been legally interpreted as a *contract "A"/contract "B"* analysis.
- 8.2. The Proponent must submit its complete Proposal before the Closing Date and Time. Proposals received late or not received completely by the Closing Date and Time will not be considered.
- 8.3. Proposals will be marked by their receipt time. In the case of a dispute, the Proposal receipt time as recorded by the C-NLOPB at its location will prevail.
- 8.4. All costs quoted in this RFP must be in Canadian Dollars.
- 8.5. INTENTIONALLY OMITTED -
- 8.6. INTENTIONALLY OMITTED-
- 8.7. Proponents must be in compliance with all applicable legislative and regulatory requirements, including, but not limited to, all labour, occupational health and safety, and worker's compensation legislation and regulations.
- 8.8. Proponents acknowledge that the C-NLOPB is subject to the *Access to Information Act*, R.S.C., 1985, c. A-1 (as amended from time to time), and that information contained in the Proposal submitted in response to this RFP could be disclosed as a result of the application of that Act.
- 8.9. Proponents shall not use the C-NLOPB's name or logo or make reference to this RFP in any advertising copy or other promotional materials or messages without the CNLOPB's prior written consent.
- 8.10. Proposals must remain open and irrevocable for a period of ninety (90) days from the Closing Date and Time.
- 8.11. All documents, materials, articles and information submitted by the Proponent as part of, or in support of a Proposal shall become upon submission, the property of the C-NLOPB and shall not be returned to the Proponent.
- 8.12. The C-NLOPB makes no representation, warranty or guarantee as to the accuracy of the information contained in this RFP. Any quantities shown, data, or opinion contained in this RFP, are estimates only and are for the sole purpose of indicating to Proponents the general scale and Work that may be required.



- 8.13. Proponents shall not engage in any form of political or other lobbying whatsoever with respect to this RFP or otherwise attempt to influence the outcome of the selection process. In the event of any such activity, the C-NLOPB, at its sole discretion, may at any time, but is not required to, reject any response by that Proponent without further consideration, and either terminate that Proponent's continued participation in the selection process or impose conditions on that Proponent's continued participation that the C-NLOPB, in its sole discretion, deems appropriate.
- 8.14. Proponents are solely responsible, and without recourse to the C-NLOPB for any expenses a Proponent may incur in preparing and submitting a Proposal and for its participation in this RFP process including, but not limited to, providing additional information that may be requested by the C-NLOPB.
- 8.15. Irregularities or errors of a non-material nature in a Proposal may be waived by the C-NLOPB at its sole discretion.
- 8.16. Notwithstanding any other section of this RFP, the C-NLOPB reserves the right to reject any and all Proposals received in response to this RFP. Reasons for rejection include, but are not limited to, the following:
 - (a) Proposals received after the Closing Date and Time;
 - (b) Incomplete Proposals;
 - (c) Proposals containing qualifications or conditions added by the Proponent that are unacceptable to the C-NLOPB in its sole discretion;
 - (d) Proposals which do not meet the requirements specified in this RFP.

8.17. INTENTIONALLY OMITTED

- 8.18. Any conflicts, discrepancies errors or omissions between this RFP, the Proposal the Contract, and any Schedules to the Contract, shall be resolved in the following order of priority:
 - (a) the Contract;
 - (b) the Schedules to the Contract;
 - (c) this RFP; and
 - (d) the Proposal.

9.0. NO CLAIMS BY PROPONENT

9.1. The Proponent, by participating in the process outlined in this RFP document, consents to the procedures as described in this RFP, and the Proponent acknowledges and agrees



that the C-NLOPB will not be liable to any Proponent for any claims, direct or indirect, whether for costs, expenses, losses or damages, or loss of anticipated profits, or for any other matter whatsoever incurred by the Proponent:

- (a) in preparing and providing a Proposal;
- (b) negotiations with the C-NLOPB, if any;
- (c) non-acceptance or rejection of a Proposal; and
- (d) cancellation of this RFP without award.

10.0. EVALUATION AND AWARD

- 10.1. The successful Proponent will be notified in writing by the C-NLOPB and notification of the outcome may be posted on the C-NLOPB's website. The C-NLOPB reserves the right to award to a Proponent whose Proposal may not represent the lowest overall cost. If a Contract results from this RFP process, it shall be awarded to the qualified Proponent whose Proposal is the most acceptable to the C-NLOPB in its sole discretion. Issuing this RFP implies no obligation on the CNLOPB to accept any Proposal in whole or in part.
- 10.2. The successful Proponent will be selected in the sole discretion of the C-NLOPB, based on the Mandatory Requirements in Appendix "B" and additional criteria specific to the Work, including, but not limited to:
 - (a) ability to meet and understand C-NLOPB requirements in this RFP. Proposals will be evaluated based on the strength of understanding of C-NLOPB Work requirements as demonstrated in the Proposal;
 - (b) demonstrated experience with similar projects;
 - (c) overall cost of the Proposal (including proposed pricing and any other costs to be incurred by the C-NLOPB);
 - (d) ability to meet C-NLOPB timelines for starting and completing the Work;
 - (e) project approach and plan;
 - (f) innovation or creativity; and

The criteria above are not necessarily listed in order of priority.

- 10.3 In evaluating responses to this RFP, first consideration shall be given by the Board to Proposals which:
 - (a) provide employment for individuals resident in the Province, and



(b) offer services provided from within the Province / goods manufactured in the Province, where those services and goods are competitive in terms of fair market price, quality and delivery.

11.0. CONFIDENTIALITY

- 11.1. The C-NLOPB will, to the extent it reasonably can and subject to its obligations under law, hold confidential any information labelled as confidential provided to it by Proponents. If for any reason information provided to the C-NLOPB should not be disclosed because of its sensitive nature, then it is incumbent upon the Proponent when supplying the information to make this clear and to specify the reasons for the information's sensitivity.
- 11.2. The successful Proponent and its respective staff may be required to sign a formal confidentiality/non-disclosure agreement relating to the protection of confidential information of the C-NLOPB to which they may have access to during the course of the Contract.
- 11.3. The successful Proponent shall not disclose or make public any statements or material acquired or produced in relation to this RFP or any subsequent Contract without the prior written permission of the C-NLOPB.

12.0. CONFLICT OF INTEREST

12.1. Proponents shall disclose any information that might be relevant to an actual or potential conflict of interest. Proponents must warrant that, at the date of the acceptance of their Proposal, no conflict of interest exists or is likely to arise in the performance of their obligations under the Contract. If during the term of the Contract, a conflict of interest or a risk of a conflict of interest arises, the Proponent shall notify the C-NLOPB immediately in writing of that conflict or risk.



APPENDIX "A" - SCOPE OF WORK

1.0 PROJECT OVERVIEW

This section provides an overview of the Project for informational purposes only. Proponents are not expected to respond to this background information.

The C-NLOPB is looking to modernize the Application Delivery System infrastructure used for remotely accessing high-resource applications. Two Nutanix-based solutions have been identified which may be used, and are outlined below.

2.0 Proponents should provide a quote based on the Bill of Materials (BOM) provided for Solution 1 and/or Solution 2, under APPENDIX "E" and APPENDIX "F" respectively (also available as an Excel file). Proponents may provide a Proposal for one of the solutions, or a Proposal for each.

The Proposal should include the OEM parts exactly as listed; substitutions, refurbished, or remanufactured equipment will not be accepted.

The Proposal should clearly indicate expected delivery dates for delivery of all components to our office at the address below:

Canada-Newfoundland and Labrador Offshore Petroleum Board
240 Waterford Bridge Road
The Tower Corporate Campus – West Campus Hall - Suite 7100
St. John's, NL A1E 1E2



APPENDIX "B" - MANDATORY REQUIREMENTS CHECK LIST

Check Box to be completed and included with the Proposal.

The Proposal package contains one (1) complete electronic copy of the RFP Proposal and related documentation	
The Proposal was delivered in full on or before the Closing Date and Time	
The Proposal is signed by an authorized representative of the Proponent	
The Proponent has read and understood the RFP and the C-NLOPB's requirements and it's presentation is clear, professional and complete.	



APPENDIX "C" - PRICING

The Proposal shall contain a fixed price, inclusive of all fees, expenses and incidentals to perform the Work as described in this RFP. Prices quoted must be in Canadian Dollars, exclusive of HST.



APPENDIX "D" – INTENTIONALLY OMITTED



APPENDIX "E" – SOLUTION 1 BILL OF MATERIALS

Line #	Category	Sub-Category	Sub-Sub-Category	Vendor	Product Number	Qty	Description	Service Duration
1.0	Nutanix - Man	datory Software and	Services					
	Software			Nutanix	HCI-M6-MLB	1	Cisco Compute Hyperconverged M6 with Nutanix MLB	
1.2	License			Nutanix	NTX-SW	1	Nutanix Software 5Y and above	60 months
1.3	License			Nutanix	NT-EUC-ULT-PR	100	EUC Ultimate SW LIC & Production SW Supp for 1 User	
1.4	License			Nutanix	SVS-NT-SUP	1	Entitlement ONLY for Nutanix Cloud Infrastructure SW	
1.5	Services			Nutanix	NTX-SW-PS	1	Nutanix Professional Service	
	License			Nutanix	NT-S-DP-PRO-AV-PB	1	NCI Cluster Deployment or Expansion - Pro - AHV - Base	
1.7	License			Nutanix	NT-S-DP-PRO-AV-PV	4	NCI Cluster Deployment or Expansion - Pro - AHV - Var	
1.8	Services			Nutanix	NT-FLEX-CST-CR	77	Nutanix Services Flexible Credits	
1.9	License			Nutanix	SVS-NT-SUP	1	Entitlement ONLY for Nutanix Cloud Infrastructure SW	
	Nvidia -							
2.1	License	Server		Cisco	HCI-NVGRWKS-5YRM6	12	NVIDIA Quadro SW Subscription - vDWS 1CCU - 5 Year	60 months
2.2	License	Server		Cisco	HCI-NVGRPCS-5YRM6	44	NVIDIA GRID Software Subscription - VDI PC 1CCU - 5 Year	60 months
2.3	License	Server		Cisco	HCI-NVGRPCS-5YRM6	44	NVIDIA GRID Software Subscription - VDI PC 1CCU - 5 Year	60 months
3.0	Cisco - Servers							
3.1	Hardware	Server		Cisco	HCIAF240C-M6SX	4	Cisco Compute Hyperconverged HCIAF240cM6 All Flash Node	
3.2	Hardware	Server		Cisco	HCI-FI-MANAGED-M6	4	Deployment mode for Server Managed by FI	
3.3	Hardware	Server	HBA Controller	Cisco	HCI-SAS-240M6	8	Cisco 12G SAS HBA for(16 Drives) w/2U Brkt	
3.4	Hardware	Server	Hard Drive	Cisco	HCI-SD38T6S1X-EV	24	3.8TB 2.5in Enter Value 6G SATA Samsung SSD	
3.5	Hardware	Server	Hard Drive	Cisco	HCI-M2-240G-M6	8	240GB SATA M.2	
3.6	Hardware	Server	M2 Raid Controller	Cisco	HCI-M2-HWRAID-M6	4	Cisco Boot optimized M.2 Raid controller	
3.7	Hardware	Server	GPU Air Duct	Cisco	HCI-ADGPU-240M6	4	C240M6 GPU Air Duct 2USFF/NVMe (for DW/FL only)	
3.8	Hardware	Server	Rail Kit	Cisco	HCI-RAIL-M6	4	Ball Bearing Rail Kit for C220 & C240 M6 rack servers	
3.9	Hardware	Server	Security Module	Cisco	HCI-TPM-002C-M6	4	TPM 2.0, TCG, FIPS140-2, CC EAL4+ Certified, for M6 servers	
3.10	Hardware	Server		Cisco	HCI-AOSAHV-SWK9M6		HCI AOS AHV SW	
3.11	Hardware	Server	Heatsink	Cisco	UCSC-HSLP-M6	8	Heatsink for 1U/2U LFF/SFF GPU SKU	
3.12	Hardware	Server	Memory Blanks	Cisco	UCS-DIMM-BLK	64	UCS DIMM Blanks	
3.13	Hardware	Server	Hard Drive Blanks	Cisco	UCSC-BBLKD-S2	88	UCS C-Series M5 SFF drive blanking panel	
	Hardware	Server		Cisco	UCSC-M2EXT-240M6		C240M6 / C245M6 2U M.2 Extender board	
3.15	Hardware	Server	SAS Cable	Cisco	CBL-SAS24-240M6		C240M6 SAS cable 24 (2U); (Zumba HBA)	
,	Hardware	Server	SAS Cable	Cisco	CBL-SAS12-240M6		C240M6 SAS cable (2U); (Pismo HBA)	
	Hardware	Server	GPU Power Cable	Cisco	UCS-P100CBL-240M5		C240/C245 M5/M6 NVIDIA P100 /V100 /RTX /A100 /A40 /A16 Cable	
	Hardware	Server	Riser Filler Blank	Cisco	UCSC-FBRS3-C240M6		C240 / C245 M6 2U Riser3 Filler Blank	
	Hardware	Server	Riser CPU	Cisco	UCSC-RIS2A-240M6		C240 / C245 M6 Riser2A; (x8;x16;x8);StBkt; (CPU2)	
3.20	Hardware	Server	Processor	Cisco	HCI-CPU-I6342		Intel 6342 2.8GHz/230W 24C/36MB DDR4 3200MHz	
	Hardware	Server	Memory	Cisco	HCI-MR-X64G2RW		64GB RDIMM DRx4 3200 (16Gb)	
3.22	Hardware	Server	Riser CPU	Cisco	HCI-RIS1A-240M6		C240 M6 Riser1A; (x8;x16x, x8); StBkt; (CPU1)	
3.23	Hardware	Server		Cisco	HCI-VIC-MODE-M6		HCI VIC Connectivity Mode	
3.24	Hardware	Server	Network Card - VIC	Cisco	HCI-M-V25-04		Cisco UCS VIC 1467 quad port 10/25G SFP28 mLOM	
,	Hardware	Server	Video Card	Cisco	HCI-GPU-A40-M6		TESLA A40 RTX, PASSIVE, 300W, 48GB	
	Hardware	Server	Video Card	Cisco	HCI-GPU-A40-M6		TESLA A40 RTX, PASSIVE, 300W, 48GB	
3.27	Hardware	Server	Power Supply	Cisco	HCI-PSU1-2300W-M6		Cisco UCS 2300W AC Power Supply for Rack Servers Titanium	
	Hardware	Server	Power Cable	Cisco	CAB-C19-CBN		Cabinet Jumper Power Cord, 250 VAC 16A, C20-C19 Connectors	
,	Support	Server	Warranty	Cisco	CON-L14HR-HCIAM6SX		CX LEVEL 1 24X7X4 Cisco Compute Hyperconverged HCIAF240cM6	60 months
4.0	Cisco - Fabric I		1		1	, ,	1	1
,	Hardware	Fabric Interconnect		Cisco	HCI-FI-6454-M6	2	Cisco Compute Hyperconverged Fabric Interconnect 6454	
	Hardware	Fabric Interconnect		Cisco	HCI-UCSM-MODE-M6		UCSM Deployment mode for FI	
,	Software	Fabric Interconnect		Cisco	N10-MGT018		UCS Manager v4.2 and Intersight Managed Mode v4.2	
	Hardware		Power Supply	Cisco	HCI-PSU-6332-ACM6		UCS 6332/ 6454 Power Supply/100-240VAC	
	Hardware	Fabric Interconnect	Power Cable	Cisco	CAB-C13-CBN		Cabinet Jumper Power Cord, 250 VAC 10A, C14-C13 Connectors	
,	Hardware	Fabric Interconnect	Rail Kit	Cisco	UCS-ACC-6332		UCS 6332/ 6454 Chassis Accessory Kit	
,	Hardware	Fabric Interconnect	Fans	Cisco	UCS-FAN-6332		UCS 6332/ 6454 Fan Module	
	Support	Fabric Interconnect		Cisco	CON-L14HR-HCIFI4M6		CX LEVEL 1 24X7X4 Cisco Compute Hyperconverged Fabric Inte	60 months
	Hardware	Fabric Interconnect		Cisco	SFP-25G-AOC3M=		25GBASE Active Optical SFP28 Cable, 3M	oo months
	Hardware	Fabric Interconnect		Cisco	SFP-25G-AOCSINI=		25GBASE-SR SFP Module	
5.0	HPE - Networ			Cisco	31 F -23G-3N-3-		23GBA3L-3N 3I F MOUUIE	
	Hardware	Network	Transceiver	Aruba	JL484A		HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	



APPENDIX "F" - SOLUTION 2 BILL OF MATERIALS

Line #	Category	Sub-	Sub-Sub-Category	Vendor	Product Number	Qty	Description	Service
~	▼	Category -	▼	-	▼	-		Duration
L. 0	Nutanix - Mandat	ory Software	and Services		,			
1.1	License			Nutanix	SW-EUC-ULT-PR	100	Subscription, End User Computing (EUC) Ultimate Software License & Production Software Support Service for 1 User	60
L.2	License			Nutanix	Term-Months	60	Term in months	60
1.3	License			Nutanix	CNS-INF-A-SVC-DEP-PRO	4	Service, NCI Cluster Deployment or Expansion - Pro Edition. For each quantity purchased, deployment is limited to 1 node at a single physical site. Includes choice of one: NUS Files, Objects, or Volumes.	
L.4	License			Nutanix	Canada	4	Selected region for Services Delivery	
5	License			Nutanix	AHV	4	Nutanix AHV Hypervisor	
L.6	Service			Nutanix	CNS-INF-FST-FLOW	1	Service, FastTrack for NCI Flow Network Security Microsegmentation	
7	Service			Nutanix	Canada	1	Selected region for Services Delivery	
.0	Nvidia - Licenses							
2.1	License			Nvidia	R3Q93AAE	12	NVIDIA RTX Virtual Workstation 1 Concurrent User Perpetual E-LTU	
2.2	License			Nvidia	R3Q67AAE	12	NVIDIA RTX Virtual Workstation SUMS 1 Concurrent User 5-year Subscription E	- 60
2.3	License			Nvidia	R3R06AAE	88	NVIDIA Virtual PC 1 Concurrent User Perpetual E-LTU	
2.4	License			Nvidia	R3R21AAE	88	NVIDIA Virtual PC SUMS 1 Concurrent User 5-year Subscription E-LTU	60
3.0	HPE - Servers	,	,	•	•			
3.1	Hardware	Server		HPE	P56704-B21	4	HPE ProLiant DX380 Gen10 Plus 8SFF FSC Configure-to-order Server	
3.2	Hardware	Server		HPE	P56704-B21#ABA	4	HPE DX380 Gen10+ 8SFF FSC CTO Svr	
3.3	Hardware	Server	Processor	HPE	P43453-B21	8	Intel Xeon-Gold 6342 2.8GHz 24-core 230W FIO Processor for HPE DX Gen10 Plus	
.4	Hardware	Server	Memory	HPE	P43169-B21	128	HPE DX 32GB (1x32GB) Dual Rank x4 DDR4-3200 CAS-22-22-22 Registered Smart FIO Memory Kit	
.5	Hardware	Server	Hard Drive	HPE	P56743-B21	24	HPE DX 3.84TB SATA 6G Read Intensive SFF BC PM893 FIO SSD	
.6	Hardware	Server	Hard Drive	HPE	P35837-B21	4	HPE DX NS204i-p Gen10 Plus x2 Lanes NVMe PCle3 x8 FIO Boot Device	
.7	Hardware	Server	Video Card	HPE	R9S37C	8	NVIDIA A40 48GB PCIe Non-CEC Accelerator for HPE	
.8	Hardware	Server	Video Card	HPE	R9S37C#0D1	8	Factory Integrated	
.9	Hardware	Server	Riser Card	HPE	P24345-B21	4	HPE DX Gen10 Plus x8/x16/x8 Secondary FIO Riser Kit	
.10	Hardware	Server	Network	HPE	P08443-B21	4	Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	
.11	Hardware	Server	Network	HPE	P08443-B21#0D1	4	Factory Integrated	
.12	Hardware	Server	Riser Card	HPE	P42680-B21	4	HPE ProLiant DX38x Gen10 Plus x16 Tertiary FIO Riser Kit	
.13	Hardware	Server	Network	HPE	P10106-B21	4	Intel E810-XXVDA2 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	
.14	Hardware	Server	Network	HPE	P10106-B21#0D1	4	Factory Integrated	
.15	Hardware	Server	Power Supply	HPE	P18222-B21	8	HPE DX 1600W Flex Slot Platinum Hot Plug Low Halogen FIO Power Supply Kit	
.16	Hardware	Server	GPU Power Cable	HPE	P39102-B21	4	HPE ProLiant DL300 Gen10 Plus GPU 8-pin Keyed Cable Kit	
.17	Hardware	Server	GPU Power Cable	HPE	P39102-B21#0D1	4	Factory Integrated	
.18	Hardware	Server	Security Module	HPE	P24372-B21	4	HPE DX Trusted Platform Module 2.0 Gen10 Plus FIO Black Rivets Kit	
.19	Hardware	Server	Hest Sink	HPE	P40794-B21	8	HPE ProLiant DX380 Gen10 Plus High Performance FIO Heat Sink Kit	
.20	Hardware	Server	Riser Card	HPE	P38771-B21	4	HPE DL385 Gen10 Plus Primary/Secondary Riser Cage without Retainer Clip	
.21	Hardware	Server	Riser Card	HPE	P38771-B21#0D1	4	Factory Integrated	
.22	Hardware	Server	Riser Card	HPE	P38774-B21	4	HPE DL385 Gen10 Plus Tertiary Riser Cage without Retainer Clip	
.23	Hardware	Server	Riser Card	HPE	P38774-B21#0D1	4	Factory Integrated	
.24	Software			HPE	R6T15A	4	Nutanix AOS Long Term Support Pre-installed FIO Software for HPE	
.25	Hardware	Server	Rail Kit	HPE	P43645-B21	4	HPE ProLiant DX38x Gen10 Plus 2U SFF Easy Install FIO Rail Kit	
.26	Support	Warranty		HPE	H42E3E		HPE 5 Year Tech Care Essential DX380G10+ Service	60 months
.27	Support	Warranty		HPE	HN4X3E	4	HPE Install ProLiant DX Base Servers Service	
.0	Not Required							
.0	HPE - Networking	3						
.1	Hardware	Network	Transceiver	Aruba	JL488A	8	Aruba 25G SFP28 to SFP28 3m DAC	
.0	HPE - Networking	g - Optional	Components					
.1	Hardware	Network	Transceiver	Aruba	JL484A		HPE Aruba Networking 25G SFP28 LC SR 100m MMF Transceiver	
.2	Hardware	Network	Transceiver	HPE	845398-B21	8	HPE 25Gb SFP28 SR 100m Transceiver	

Note that for lines 6.1 and 6.2 we are seeking pricing, however these optional components may or may not be purchased if we proceed with the purchase of solution 2.