



HPE Solutions with Commvault configuration guide

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Introduction

This document contains configuration details for creating supported Commvault HyperScale X Solutions and Commvault HyperScale Edge solutions. Commvault's HyperScale X Solution and Commvault's HyperScale Edge solutions have very different requirements, and these should be considered when positioning a Commvault HyperScale solution deployment.

Commvault HyperScale X

Commvault's HyperScale X solution automates and simplifies the deployment of data protection and backup management for complex, security-focused environments, providing high performance backup and recovery with easy scalability.

Commvault HyperScale X delivers a scale-out infrastructure that simplifies hybrid cloud data protection to provide the following features:

- Simple, flexible data protection for all workloads including containers, virtual machines, and databases.
- Optimized scalability to easily grow as needed for on-premises and cloud environments.
- Trusted security and resiliency including built-in ransomware protection.

HyperScale X scale-out software provides for the creation of a storage pool for housing protected data. The initial creation of a storage pool requires 3 similarly configured nodes. Expansion of the pool can be accomplished through the addition of individual or multi-node increments. The node configurations are optimized with sufficient resources to support all MediaAgent services while ensuring resiliency and performance. A consolidated view to create, monitor, and manage the storage pool and the HyperScale X nodes is also provided.

This document provides configuration guidelines for creating HyperScale X configuration on HPE Alletra, and HPE ProLiant platforms. HyperScale X can be created in 3 different node sizes with varying capacities:

- N4 containing 4 data drives per node
- N12 containing 12 data drives per node
- N24 containing 24 data drives per node

HPE Complete supported configurations include N4 configurations built on the HPE ProLiant DL320 Gen11, N12 configurations built on HPE ProLiant DL380 Gen11, and N24 configurations built on the HPE Alletra 4120 platforms. Refer to the Commvault HyperScale X section in this document details on supported configurations.

Commvault HyperScale Edge

Commvault's HyperScale Edge solution provides a secure backup and recovery solution that helps to simplify operations and improve resilience for large enterprises with remote locations as well as small and medium businesses with smaller datasets.

Commvault HyperScale Edge solutions are a single node backup solution which cannot be scaled up nor expanded with additional capacity. Therefore, this should be considered when sizing a HyperScale Edge deployment, allowing room for expected future growth.

A Commvault HyperScale Edge node is protected by an internal hardware storage controller's RAID configuration, typically RAID 5 or RAID 6. The RAID type configured is a customer choice, but RAID must be configured on these internal data storage HDDs. Consider the usable capacity of these HDDs after RAID overhead, as well as file system overhead.

Commvault HyperScale Edge is currently supported by HPE Complete on the HPE ProLiant DL360 Gen11 4LFF platform in various node capacities. Refer to the section in this document titled HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge for more details on supported configurations.

Commvault HyperScale X Solutions

HPE Alletra 4120 24LFF for Commvault HyperScale X

The HPE Alletra 4120 24LFF server configuration

An HPE Alletra 4120 24LFF with Commvault HyperScale X N24 specific menu can be found in OCA by searching on **Commvault** or **S6L29A**. OCA Smart Template configurations for Commvault HSX can be found in the Storage -> Data Protection section of the Smart Template catalog.

All nodes must include a Commvault HyperScale X E-LTU license.

The HPE Alletra 4120 24LFF server for Commvault HyperScale X requires HyperScale X 11.36 ISO released in December 2024, or greater, for automated deployment. The Commvault HyperScale X 11.32 ISO released in December 2024, is also supported, but will require manual selection of data drives, cache drives and boot drives during the HSX installation script.

Baseline components

HPE Alletra 4120 24LFF for Commvault HyperScale X node baseline components below are required in all configurations. Commvault HyperScale X licensing is per node regardless of the data HDD capacity configured. Populating 24 drives per node is required and all nodes within a cluster must be configured with the same capacity drives. Initial Commvault HyperScale X cluster deployments must include a minimum of 3 nodes. Single node increments are allowed beyond 3, either initially or as future expansion.

Table 1. Baseline components—HPE Alletra 4120 24LFF for Commvault HyperScale X

Quantity	SKU	Description	Variable Component	Notes
1	S6L29A	HPE AL STG SVR 4120 CTO DS Node	No	Base Chassis
1	P50875-B21	HPE AL STG SVR 4120 12EDSFF 1Tx4 Kit	No	Rear Drive Cage
1	P50881-B21	HPE AL STG SVR 4120 12EDSFF NVMe DA Cable	No	Cable Kit
1	P50885-B21	HPE AL STG SVR 4120 NVMe M.2 Enable Kit	No	M.2 Enable Kit
1	P48183-B21	HPE NV204i-u Gen11 Hot Plug Boot Option Device	No	Boot Device
1	P59379-B21	HPE AL STG SVR 4120 Cage2-CPU1 FIO Mode	No	Factory Configuration
2	*	Processor	Yes	Refer to Table 2
2	P51833-B21	HPE AL STG SVR 4120 Standard Heat Sink Kit	No	CPU Heat Sink
*	*	Memory	Yes	Refer to Table 2
1	P61479-B21	HPE AL STG SVR 41X0 SR 32p FIO Storage Controller	No	Storage Controller
*	*	Storage Controller Battery Backup	Yes	Refer to Table 2
24	*	Data Drives	Yes	Refer to Table 2
2	*	Cache Drives	Yes	Refer to Table 2
1	P51945-B21	HPE AL STG SVR 4120 OCP2 x8 CPU2 Kit	No	OCP Cable Kit
*	*	Networking	Yes	Refer to Table 2
*	*	PCIe Fibre Channel HBA or SAS Controller	Yes	Refer to Table 2
*	*	Racking and Security	Yes	Refer to Table 2
2	*	Power Supplies	Yes	Refer to Table 2

Quantity	SKU	Description	Variable Component	Notes
1	*	HPE iLO Advanced	Yes	Refer to Table 2
1	*	HPE Management Software	Yes	Refer to Table 2
*	*	Transceivers and network cables	Yes	Refer to Table 2
*	*	HPE Services	Yes	Refer to Table 2
*	*	Commvault HyperScale X Software/E-LTU	Yes	Refer to Table 2

* [Refer to Table 2](#) Variable component for HPE Alletra 4120 24LFF for Commvault HyperScale X

Variable component guidelines

The guidelines below must be satisfied for each component category.

The quantities in Table 4 below reflects quantity one HPE Alletra 4120 24LFF for Commvault HyperScale X. A minimum Commvault HyperScale X new cluster configuration is 3 servers.

Table 2. Variable components—HPE Alletra 4120 24LFF for Commvault HyperScale X

Name	Guidelines																		
Processor	<p>Required. Must configure quantity 2 of one of the below processor SKUs:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P50808-B21</td> <td>INT Xeon-G 5416S Kit HPE AL STG SVR 41XO</td> </tr> <tr> <td>2</td> <td>P50794-B21</td> <td>INT Xeon-G 6426Y Kit HPE AL STG SVR 41XO</td> </tr> <tr> <td>2</td> <td>P67419-B21</td> <td>INT Xeon-S 4514Y Kit HPE AL STG SVR 41XO</td> </tr> <tr> <td>2</td> <td>P67418-B21</td> <td>INT Xeon-G 6526Y Kit HPE AL STG SVR 41XO</td> </tr> </tbody> </table>	Quantity	SKU	Description	2	P50808-B21	INT Xeon-G 5416S Kit HPE AL STG SVR 41XO	2	P50794-B21	INT Xeon-G 6426Y Kit HPE AL STG SVR 41XO	2	P67419-B21	INT Xeon-S 4514Y Kit HPE AL STG SVR 41XO	2	P67418-B21	INT Xeon-G 6526Y Kit HPE AL STG SVR 41XO			
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Memory	<p>Required. Minimum 16x32 GB DIMMs (512 GB) required. If 20 TB HDDs selected, then 12x64 GB DIMMs (768 GB) required. Select from the below supported configurations:</p> <p>Configure one of the below options if Intel® Xeon® Scalable 4th Generation processors are configured (P50808-B21 or P50794-B21):</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>P43328-K21/-B21</td> <td>HPE 32GB 2RX8 PC5-4800B-R Smart Kit</td> </tr> <tr> <td>12</td> <td>P43331-K21/-B21</td> <td>HPE 64GB 2RX4 PC5-4800B-R Smart Kit</td> </tr> </tbody> </table> <p>Configure one of the below options if Intel Xeon Scalable 5th Generation processors are configured (P67419-B21 or P67418-B21):</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>16</td> <td>P64706-K21/-B21</td> <td>HPE 32GB 2Rx8 PC5-5600B-R Smart Kit</td> </tr> <tr> <td>12</td> <td>P64707-K21/-B21</td> <td>HPE 64GB 2Rx4 PC5-5600B-R Smart Kit</td> </tr> </tbody> </table> <p>Note: If 20 TB HDDs are configured then 12x 64 GB (768 GB) memory is required.</p>	Quantity	SKU	Description	16	P43328-K21/-B21	HPE 32GB 2RX8 PC5-4800B-R Smart Kit	12	P43331-K21/-B21	HPE 64GB 2RX4 PC5-4800B-R Smart Kit	Quantity	SKU	Description	16	P64706-K21/-B21	HPE 32GB 2Rx8 PC5-5600B-R Smart Kit	12	P64707-K21/-B21	HPE 64GB 2Rx4 PC5-5600B-R Smart Kit
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Storage Controller	Required. Must configure one of the Storage Controller battery Backup devices below:																		
Battery Backup	<table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P01366-B21</td> <td>HPE 96W Smart Stg Li-ion Batt 145mm Kit</td> </tr> <tr> <td>1</td> <td>P02377-B21</td> <td>HPE Smart Hybrid Capacitor w/ 145mm Cbl</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	P01366-B21	HPE 96W Smart Stg Li-ion Batt 145mm Kit	1	P02377-B21	HPE Smart Hybrid Capacitor w/ 145mm Cbl									
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Data Storage Drives	<p>Required. Quantity 24 must be configured. One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported.</p> <p>Supported Data Drives:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>24</td> <td>834031-K21/-B21</td> <td>HPE 8TB SAS 7.2K LFF LP 512e MV HDD</td> </tr> <tr> <td>24</td> <td>P53556-K21/-B21</td> <td>HPE 10TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> <tr> <td>24</td> <td>881781-K21/-B21</td> <td>HPE 12TB SAS 7.2K LFF LP He 512e MV HDD</td> </tr> <tr> <td>24</td> <td>P23608-K21/-B21</td> <td>HPE 16TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> <tr> <td>24</td> <td>P37669-K21/-B21</td> <td>HPE 18TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> <tr> <td>24</td> <td>P53553-K21/-B21</td> <td>HPE 20TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> </tbody> </table>	Quantity	SKU	Description	24	834031-K21/-B21	HPE 8TB SAS 7.2K LFF LP 512e MV HDD	24	P53556-K21/-B21	HPE 10TB SAS 7.2K LFF LP ISE MV HDD	24	881781-K21/-B21	HPE 12TB SAS 7.2K LFF LP He 512e MV HDD	24	P23608-K21/-B21	HPE 16TB SAS 7.2K LFF LP ISE MV HDD	24	P37669-K21/-B21	HPE 18TB SAS 7.2K LFF LP ISE MV HDD	24	P53553-K21/-B21	HPE 20TB SAS 7.2K LFF LP ISE MV HDD												
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Cache Drives	<p>Required. Quantity one 6.4 TB capacity NVMe drive and quantity one 3.2 TB capacity NVMe drive are required. Select from the supported list of drives below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P61191-K21/-B21</td> <td>HPE 3.2TB NVMe MU E3S EC1 CM7 SSD</td> </tr> <tr> <td>1</td> <td>P69243-K21/-B21</td> <td>HPE 3.2TB NVMe MU E3S EC1 CD8P SSD</td> </tr> <tr> <td>1</td> <td>P70399-K21/-B21</td> <td>HPE 3.2TB NVMe MU E3S EC1 PS1030 SSD</td> </tr> <tr> <td>1</td> <td>P77265-K21/-B21</td> <td>HPE 3.2TB NVMe MU E3S EC1 PE1030 SSD</td> </tr> <tr> <td>1</td> <td>P70669-K21/-B21</td> <td>HPE 3.2TB NVMe MU E3S EC1 FIPS CM7 SSD</td> </tr> <tr> <td>1</td> <td>P61195-K21/-B21</td> <td>HPE 6.4TB NVMe MU E3S EC1 CM7 SSD</td> </tr> <tr> <td>1</td> <td>P69245-K21/-B21</td> <td>HPE 6.4TB NVMe MU E3S EC1 CD8P SSD</td> </tr> <tr> <td>1</td> <td>P70401-K21/-B21</td> <td>HPE 6.4TB NVMe MU E3S EC1 PS1030 SSD</td> </tr> <tr> <td>1</td> <td>P77267-K21/-B21</td> <td>HPE 6.4TB NVMe MU E3S EC1 PE1030 SSD</td> </tr> <tr> <td>1</td> <td>P70672-K21/-B21</td> <td>HPE 6.4TB NVMe MU E3S EC1 FIPS CM7 SSD</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	P61191-K21/-B21	HPE 3.2TB NVMe MU E3S EC1 CM7 SSD	1	P69243-K21/-B21	HPE 3.2TB NVMe MU E3S EC1 CD8P SSD	1	P70399-K21/-B21	HPE 3.2TB NVMe MU E3S EC1 PS1030 SSD	1	P77265-K21/-B21	HPE 3.2TB NVMe MU E3S EC1 PE1030 SSD	1	P70669-K21/-B21	HPE 3.2TB NVMe MU E3S EC1 FIPS CM7 SSD	1	P61195-K21/-B21	HPE 6.4TB NVMe MU E3S EC1 CM7 SSD	1	P69245-K21/-B21	HPE 6.4TB NVMe MU E3S EC1 CD8P SSD	1	P70401-K21/-B21	HPE 6.4TB NVMe MU E3S EC1 PS1030 SSD	1	P77267-K21/-B21	HPE 6.4TB NVMe MU E3S EC1 PE1030 SSD	1	P70672-K21/-B21	HPE 6.4TB NVMe MU E3S EC1 FIPS CM7 SSD
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PCIe Fibre Channel HBA or SAS Controller	<p>Optional. The below FC HBA adapters or SAS controllers can be configured if desired.</p> <table border="1"> <thead> <tr> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>P9D94A</td> <td>HPE SN1100Q 16Gb 2p FC HBA</td> </tr> <tr> <td>QOL14A</td> <td>HPE SN1200E 16Gb 2p FC HBA</td> </tr> <tr> <td>R2E09A</td> <td>HPE SN1610Q 32Gb 2p FC HBA</td> </tr> <tr> <td>R2J63A</td> <td>HPE SN1610E 32Gb 2p FC HBA</td> </tr> <tr> <td>R7N78A</td> <td>HPE SN1700E 64Gb 2p FC HBA</td> </tr> <tr> <td>804398-B21</td> <td>HPE Smart Array E208e-p SR Gen10 Ctrl</td> </tr> </tbody> </table> <p>Note: The HPE Alletra 4120 configuration for Commvault HyperScale X N24 has 4 total PCIe slots and 2 total OCP slots. One PCIe slot contains the HPE Alletra Storage Server 41XO SR 32p FIO Storage Controller. Two networking adapters for a total of four 10 Gb or 10/25 Gb ports must be configured using either the remaining 3 PCIe or 2 OCP slots. Once required networking is configured, any remaining slots can be configured with FC HBA, SAS Controllers for tape, or networking adapters from the list of supported adapters.</p>	SKU	Description	P9D94A	HPE SN1100Q 16Gb 2p FC HBA	QOL14A	HPE SN1200E 16Gb 2p FC HBA	R2E09A	HPE SN1610Q 32Gb 2p FC HBA	R2J63A	HPE SN1610E 32Gb 2p FC HBA	R7N78A	HPE SN1700E 64Gb 2p FC HBA	804398-B21	HPE Smart Array E208e-p SR Gen10 Ctrl	
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1	P51688-B21	HPE Gen11 2U Strg Bezel Kit														
1	822731-B21	HPE 2U Shelf-Mount Adjustable Rail Kit														
1	822640-B21	HPE Apollo 4200 Gen9 FIO Strap Ship Brkt														
Power Supplies	<p>Dual power supplies are required for redundancy. Choose from the below supported power supplies:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P38997-B21</td> <td>HPE 1600W FS Plat Ht Plg LH PS Kit</td> </tr> <tr> <td>2</td> <td>P44712-B21</td> <td>HPE 1800W-2200W FS Ti Ht Plg PS Kit</td> </tr> </tbody> </table>	Quantity	SKU	Description	2	P38997-B21	HPE 1600W FS Plat Ht Plg LH PS Kit	2	P44712-B21	HPE 1800W-2200W FS Ti Ht Plg PS Kit						
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2	P44712-B21	HPE 1800W-2200W FS Ti Ht Plg PS Kit														
HPE iLO Advanced	<p>HPE iLO Advanced is required. Select one of the HPE iLO Advanced SKUs below:</p> <p>HPE iLO Advanced:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BD505A</td> <td>HPE iLO Adv 1-svr Lic 3yr Support</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	BD505A	HPE iLO Adv 1-svr Lic 3yr Support									
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HPE Management Software	<p>HPE Compute Ops Management (COM) or HPE OneView is required. HPE Compute Ops Management is highly recommended. Select one of the HPE Compute Ops Management or HPE OneView SKUs below:</p> <p>HPE Compute Ops Management:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S1E12AAE</td> <td>HPE COM Enh 3yr Up Alletra 4000 SaaS</td> </tr> <tr> <td>1</td> <td>S1E13AAE</td> <td>HPE COM Enh 5yr Up Alletra 4000 SaaS</td> </tr> </tbody> </table> <p>HPE OneView:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P8B26AAE</td> <td>HPE OV w/o iLO 3yr 24x7 Flex Qty E-LTU</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	S1E12AAE	HPE COM Enh 3yr Up Alletra 4000 SaaS	1	S1E13AAE	HPE COM Enh 5yr Up Alletra 4000 SaaS	Quantity	SKU	Description	1	P8B26AAE	HPE OV w/o iLO 3yr 24x7 Flex Qty E-LTU
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Transceivers and network cables	<p>A minimum of four 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server-to-network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information, refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs.</p>															

Name	Guidelines														
HPE Services	<p>HPE Tech Care Service and Hardware Installation Services are required for each server configured for Commvault HyperScale X. It is recommended to keep the default HPE Tech Care Service when configuring the server in OCA, but the HPE Tech Care Service level can be changed to meet the customer's requirements.</p> <p>For more details on each HPE Tech Care Service offering, reference the HPE Tech Care Service data sheet.</p>														
Commvault HyperScale X Software/E-LTU	<p>A Commvault HyperScale X 24-drive node subscription E-LTU or perpetual E-LTU must be included with each node. If perpetual E-LTU is selected, then a minimum quantity of 12 Commvault HyperScale X 24-drive Node per Node 1-month Maintenance is required.</p> <p>Commvault HyperScale X 24-drive node E-LTUs:</p> <table border="0"> <tr> <td>R7K56AAE</td> <td>CVLT HyperScale X 24Drv Nd Perp E-LTU</td> </tr> <tr> <td>R7K58AAE</td> <td>CVLT HyperScale X 24Drv Nd 1yr Sub E-LTU</td> </tr> <tr> <td>R7K59AAE</td> <td>CVLT HyperScale X 24Drv Nd 2yr Sub E-LTU</td> </tr> <tr> <td>R7K60AAE</td> <td>CVLT HyperScale X 24Drv Nd 3yr Sub E-LTU</td> </tr> <tr> <td>R7K61AAE</td> <td>CVLT HyperScale X 24Drv Nd 4yr Sub E-LTU</td> </tr> <tr> <td>R7K62AAE</td> <td>CVLT HyperScale X 24Drv Nd 5yr Sub E-LTU</td> </tr> </table> <p>Commvault HyperScale X 24-drive Node Maintenance SKUs:</p> <table border="0"> <tr> <td>R7K57AAE</td> <td>CVLT HyperScale X 24Drv Nd 1mo Maint</td> </tr> </table>	R7K56AAE	CVLT HyperScale X 24Drv Nd Perp E-LTU	R7K58AAE	CVLT HyperScale X 24Drv Nd 1yr Sub E-LTU	R7K59AAE	CVLT HyperScale X 24Drv Nd 2yr Sub E-LTU	R7K60AAE	CVLT HyperScale X 24Drv Nd 3yr Sub E-LTU	R7K61AAE	CVLT HyperScale X 24Drv Nd 4yr Sub E-LTU	R7K62AAE	CVLT HyperScale X 24Drv Nd 5yr Sub E-LTU	R7K57AAE	CVLT HyperScale X 24Drv Nd 1mo Maint
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HPE ProLiant DL380 Gen11 for Commvault HyperScale X

The HPE ProLiant Gen11 12LFF server configuration

An HPE ProLiant DL380 Gen11 12LFF with Commvault HyperScale X N12 specific menu is available in OCA. This menu is accessed by launching OCA, starting a New Configuration, then selecting Normal, and searching on Commvault or S2U63A or S4A16AAE. Be sure to include CTO configurations in the search. Select either of the following and finally select Create to begin a new configuration:

- S2U63A HPE DL380 Gen11 12LFF for Commvault HSX Solutions (S4A16AAE)
- S2U63A#GTA HPE DL380 Gen11 12LFF for Commvault HSX Solutions (S4A16AAE)

All nodes must include a Commvault HyperScale X E-LTU license. Select the desired license from the OCA menu.

The HPE ProLiant DL380 Gen11 12LFF hardware configuration for Commvault HyperScale X requires HyperScale X 11.32 ISO or greater for deployment.

Baseline components

HPE ProLiant DL380 Gen11 for Commvault HyperScale X node baseline components below are required in all configurations. Commvault HyperScale X licensing is per node regardless of the data HDD capacity configured. Populating 12 drives per node is required and all nodes within a cluster must be configured with the same capacity drives. Initial Commvault HyperScale X cluster deployments must include a minimum of 3 nodes. Single node increments are allowed beyond 3, either initially or as future expansion.

Table 3. Baseline components—HPE ProLiant DL380 Gen11 for Commvault HyperScale X

Quantity	SKU	Description	Variable component	Notes
1	S4A16AAE	HPE DL380 G11 12LFF CTO Svr for CVLT Trk	No	Tracking SKU
1	*	Deployment Tracking SKU	Yes	Refer to Table 4
1	S2U63A	HPE DL380 Gen11 DS CTO Svr	No	Base Chassis
2	*	Processor	Yes	Refer to Table 4
2	P48818-B21	HPE DL380/DL560 G11 High Perf 2U HS Kit	No	Heatsink Kit
16	*	Memory	Yes	Refer to Table 4
1	P48811-B21	HPE DL380 G11 2SFF U.3 HDD Stacking Kit	No	Rear 2SFF Cage Kit
1	P48802-B21	HPE DL380 G11 2U x8/x16/x8 Sec Riser Kit	No	Riser Kit
1	P56995-B21	HPE DL380 Gen11 LFF Front TM Cbl Kit	No	Cable Kit
1	P48183-B21	HPE NS204i-u Gen11 Ht Plg Boot Opt Dev	No	Boot Device
1	P52152-B21	HPE DL380 G11 NS204i-u Internal Cbl Kit	No	Cable Kit
0 or 1	P54542-B21	HPE DL380 Gen11 NS204i-u FIO Kit	Yes	Optional Access Kit
1	P48820-B21	HPE DL380/DL560 G11 2U High Perf Fan Kit	No	Fan Kit
1	*	Storage Controller	Yes	Refer to Table 4
2	*	Cache Drives	Yes	Refer to Table 4
12	*	Data Storage Drives	Yes	Refer to Table 4
*	*	Networking	Yes	Refer to Table 4
*	*	PCIe Fibre Channel HBA or SAS Controller	Yes	Refer to Table 4
*	*	Racking and Security	Yes	Refer to Table 4
*	*	Power Supplies	Yes	Refer to Table 4
*	*	HPE iLO Advanced	Yes	Refer to Table 4
*	*	HPE Management Software	Yes	Refer to Table 4
*	*	Transceivers and network cables	Yes	Refer to Table 4
*	*	HPE Services	Yes	Refer to Table 4
*	*	Commvault HyperScale X Software/E-LTU	Yes	Refer to Table 4

* [Refer to Table 4](#) Variable component for HPE ProLiant DL380 Gen11 for Commvault HyperScale X

Variable component guidelines

The guidelines below must be satisfied for each component category.

The quantities in Table 6 below reflects quantity one HPE ProLiant DL380 Gen11 for Commvault HyperScale X. A minimum Commvault HyperScale X new cluster configuration is 3 servers.

Table 4. Variable component—HPE ProLiant DL380 Gen11 for Commvault HyperScale X

Name	Guidelines			
Deployment Tracking SKU	Required. Select either New Installation or Expansion tracking SKU below:			
	Quantity	SKU	Description	
	1	S3P76AAE	HPE Soln w/CVLT New Install Trk	
	1	S3P77AAE	HPE Soln w/CVLT Exp Trk	
Configuration notes: If a configuring for a new installation of Commvault HSX, then a minimum of 3 identically configured HPE ProLiant DL380 Gen11 nodes are required.				
Processor	Required. Must configure quantity 2 of one of the below processor SKUs:			
	Quantity	SKU	Description	
	2	P49611-B21	Intel Xeon-S 4416+ CPU for HPE	
	2	P49598-B21	Intel Xeon-G 6426Y CPU for HPE	
	2	P67093-B21	Intel Xeon-S 4516Y+ CPU for HPE	
2	P67080-B21	Intel Xeon-G 6526Y CPU for HPE		
Memory	Required. 16x32 GB DIMMs (512 GB) required. Select from the below supported configurations:			
	Quantity	SKU	Description	
	16	P43328-B21	HPE 32GB 2RX8 PC5-4800B-R Smart Kit	
	16	P64706-B21	HPE 32GB 2Rx8 PC5-5600B-R Smart Kit	
Note: P43328-B21 must be selected with CPU models 4416+ or 6426Y, and P64706-B21 must be selected with CPU models 4516Y+ or 6526Y.				
Storage Controller	Required. Must configure one of the Storage Controllers listed below:			
	Quantity	SKU	Description	
	1	P47777-B21	HPE MR416i-p Gen11 SPDM Storage Cntrl	
	1	P47781-B21	HPE MR416i-o Gen11 SPDM Storage Cntrl	
	1	P47785-B21	HPE MR216i-p Gen11 SPDM Storage Cntrl	
	1	P47789-B21	HPE MR216i-o Gen11 SPDM Storage Cntrl	
	Configuration notes:			
	If P47777-B21 MR416i-p or P47781-B21 MR416i-o Storage controller is configured, then either the Smart Storage Battery or the Smart Hybrid Capacitor must also be configured. The P48918-B21 Storage Controller Cable Kit is required if either the Smart Storage Battery or the Smart Hybrid Capacitor is configured			
Quantity	SKU	Description		
1	P01366-B21	HPE 96W Smart Stg Li-ion Batt 145mm Kit		
1	P02377-B21	HPE Smart Hybrid Capacitor w/ 145mm Cbl		
1	P48918-B21	HPE DL360 Gen11 Stg Cntrl Enable Cbl Kit		
Cache Drives	Required. Quantity two 3.2 TB capacity NVMe SSD drives.			
	Configure quantity 2 of one of the 3.2 TB NVMe drives below:			
Quantity	SKU	Description		
2	P65015-B21	HPE 3.2T NVMe MU SFF BC U.3ST V2 MV SSD		
Data Storage Dives	Required. Quantity 12 must be configured. One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported.			

Name	Guidelines		
	Supported Data Drives:		
	Quantity	SKU	Description
	12	834031-B21	HPE 8TB SAS 7.2K LFF LP 512e MV HDD
	12	881781-B21	HPE 12TB SAS 7.2K LFF LP He 512e MV HDD
	12	P23608-B21	HPE 16TB SAS 7.2K LFF LP ISE MV HDD
	12	P53553-B21	HPE 20TB SAS 7.2K LFF LP ISE MV HDD
Networking	Required. Must configure a minimum of 2 adapters. Supported adapters are listed below:		
	Supported OCP Network adapters:		
	SKU	Description	
	P10097-B21	BCM 57416 10GbE 2p BASE-T OCP3 Adptr	
	P10115-B21	BCM 57414 10/25GbE 2p SFP28 OCP3 Adptr	
	P26256-B21	BCM 57412 10GbE 2p SFP+ OCP3 Adptr	
	P42041-B21	MLX MCX6314 10/25GbE 2p SFP28 OCP3 Adptr	
	P26269-B21	BCM 57504 10/25GbE 4p SFP28 OCP3 Adptr	
	Supported PCIe Network adapters:		
	SKU	Description	
	P26253-B21	BCM 57416 10GbE 2p BASE-T Adptr	
	P26259-B21	BCM 57412 10GbE 2p SFP+ Adptr	
	P26262-B21	BCM 57414 10/25GbE 2p SFP28 Adptr	
	P26264-B21	BCM 57504 10/25GbE 4p SFP28 Adptr	
	P42044-B21	MLX MCX631102 10/25GbE 2p SFP28 Adptr	
	Configuration notes:		
	One of the below OCP enablement kits may be required depending on OCP selections. Refer to OCA rules:		
	SKU	Description	
	P51911-B21	HPE DL360 Gen11 CPU1/OCP2 x8 Enable Kit	
	P48830-B21	HPE DL3XX Gen11 CPU2/OCP2 x8 Enable Kit	
PCIe Fibre Channel HBA or SAS Controller	Optional. The below FC HBA adapters or SAS controllers can be configured if desired.		
	SKU	Description	
	R2J62A	HPE SN1610E 32Gb 1p FC HBA	
	R2E08A	HPE SN1610Q 32Gb 1p FC HBA	
	R2E09A	HPE SN1610Q 32Gb 2p FC HBA	
	R2J63A	HPE SN1610E 32Gb 2p FC HBA	
	804398-B21	HPE Smart Array E208e-p SR Gen10 Ctrl	
Racking and Security	The following are optional selections:		
	Quantity	SKU	Description
	1	875519-B21	HPE Bezel Lock Kit
	1	P48922-B21	HPE DL3XX Gen11 Intrusion Cbl Kit
	1	P50400-B21	HPE DL3XX Gen11 2U Com Bezel Kit
	1	P52341-B21	HPE DL3XX Gen11 Easy Install Rail 3 Kit
	1	P22020-B21	HPE Gen11 2U CMA Kit

Name	Guidelines																					
Power Supplies	<p>Dual power supplies are required for redundancy. Choose from the below supported power supplies:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>2</td> <td>P03178-B21</td> <td>HPE 1000W FS Ti Ht Plg PS Kit</td> </tr> <tr> <td>2</td> <td>P38997-B21</td> <td>HPE 1600W FS Plat Ht Plg LH PS Kit</td> </tr> <tr> <td>2</td> <td>P44712-B21</td> <td>HPE 1800W-2200W FS Ti Ht Plg PS Kit</td> </tr> </tbody> </table>	Quantity	SKU	Description	2	P03178-B21	HPE 1000W FS Ti Ht Plg PS Kit	2	P38997-B21	HPE 1600W FS Plat Ht Plg LH PS Kit	2	P44712-B21	HPE 1800W-2200W FS Ti Ht Plg PS Kit									
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HPE iLO Advanced	<p>HPE iLO Advanced is required. Select one of the HPE iLO Advanced SKUs below:</p> <p>HPE iLO Advanced:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>BD505A</td> <td>HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	BD505A	HPE iLO Advanced 1-server License with 3yr Support on iLO Licensed Features															
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HPE ProLiant DL320 Gen11 for Commvault HyperScale X

The HPE ProLiant Gen11 4LFF server configuration

An HPE ProLiant DL320 Gen11 4LFF with Commvault HyperScale X N4 specific menu is available it can be found in OCA by searching on **Commvault** or **S6L32A**. OCA Smart Template configurations for Commvault HSX can be found in the Storage -> Data Protection section of the Smart Template catalog.

All nodes must include a Commvault HyperScale X E-LTU license.

The HPE ProLiant DL320 Gen11 4LFF configuration for Commvault HyperScale X requires HyperScale X 11.32 ISO released in December 2024, or greater, for deployment.

Baseline components

HPE ProLiant DL320 Gen11 for Commvault HyperScale X node baseline components below are required in all configurations. Commvault HyperScale X licensing is per node regardless of the data HDD capacity configured. Populating 4 drives per node is required and all nodes within a cluster must be configured with the same capacity drives. Initial Commvault HyperScale X cluster deployments must include a minimum of 3 nodes. Single node increments are allowed beyond 3, either initially or as future expansion.

Table 5. Baseline components—HPE ProLiant DL320 Gen11 for Commvault HyperScale X

Quantity	SKU	Description	Variable Component	Notes
1	S6L32A	HPE DL320 Gen11 CTO DS Svr	No	Base Chassis
1	P52753-B21	HPE DL320 Gen11 x16 FHHL Riser Kit	No	Riser Kit
1	P47789-B21	HPE MR216i-o Gen11 SPDM Storage Cntrl	No	Storage Controller
1	P48908-B21	HPE DL3X0 Gen11 1U High Perf Fan Kit	No	Fan Kit
1	P48183-B21	HPE NS204i-u Gen11 Ht Plg Boot Opt Dev	No	Boot Device
1	P52786-B21	HPE DL320 Gen11 NS204i-u NVMe Boot Kit	No	Cable Kit
1	P61855-B21	HPE DL320 G11 NS204i-u Sec Remov FIO Set	No	Factory Configuration
1	*	Processor	Yes	Refer to Table 6
1	*	Heatsink	Yes	Refer to Table 6
8	*	Memory	Yes	Refer to Table 6
4	*	Data Storage Drives	Yes	Refer to Table 6
*	*	Networking	Yes	Refer to Table 6
*	*	PCIe Fibre Channel HBA or SAS Controller	Yes	Refer to Table 6
*	*	Racking and Security	Yes	Refer to Table 6
*	*	Power Supplies	Yes	Refer to Table 6
*	*	HPE iLO Advanced	Yes	Refer to Table 6
*	*	HPE Management Software	Yes	Refer to Table 6
*	*	Transceivers and network cables	Yes	Refer to Table 6
*	*	HPE Services	Yes	Refer to Table 6
*	*	Commvault HyperScale X node license	Yes	Refer to Table 6

* [Refer to Table 6](#) Variable component for HPE ProLiant DL320 Gen11 for Commvault HyperScale X

Variable component guidelines

The guidelines below must be satisfied for each component category.

The quantities in Table 8 below reflects quantity one HPE ProLiant DL320 Gen11 for Commvault HyperScale X. A minimum Commvault HyperScale X initial cluster configuration is 3 servers or more.

Table 6. Variable component—HPE ProLiant DL320 Gen11 for Commvault HyperScale X

Name	Guidelines		
Processor	Required. Must configure one of the below processor SKUs:		
	Quantity	SKU	Description
	1	P49618-B21	INT Xeon-G 5412U CPU for HPE
	1	P67093-B21	INT Xeon-S 4516Y+ CPU for HPE
Heatsink	Required. One if the below processor heatsink SKUs must be included:		
	SKU	Description	
	P48904-B21	HPE ProLiant DL3X0 Gen11 1U Standard Heat Sink Kit	
	P52756-B21	HPE ProLiant DL320 Gen11 Performance Heat Sink Kit	
	Note: If P67093-B21 Xeon-S 4516Y+ CPU is configured then P52756-B21 Performance Heatsink must be selected.		
Memory	Required. 8x32 GB DIMMs (256 GB) required. Select from the below supported configurations:		
	Quantity	SKU	Description
	8	P43328-B21	HPE 32GB 2RX8 PC5-4800B-R Smart Kit
	8	P64706-B21	HPE 32GB 2RX8 PC5-5600B-R Smart Kit
	Note: P43328-B21 must be selected with CPU model 5412U, and P64706-B21 must be selected with CPU models 4516Y+.		
Cache Drives	Required. Must include quantity two 1.92 TB NVMe drives. One of the below Cache Drive options must be included. Mixing cache drives is not supported:		
	Quantity	SKU	Description
	2	P40515-B21	HPE 1.92TB NVMe RI M.2 MV SSD
	2	P80324-B21	HPE 1.92TB NVMe RI M.2 2280 V2 MV SSD
Data Storage Drives	Required. Quantity 4 must be configured. One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported.		
	Supported Data Drives:		
	Quantity	SKU	Description
	4	833928-B21	HPE 4TB SAS 7.2K LFF LP MV HDD
	4	834031-B21	HPE 8TB SAS 7.2K LFF LP 512e MV HDD
	4	881781-B21	HPE 12TB SAS 7.2K LFF LP He 512e MV HDD
	4	P23608-B21	HPE 16TB SAS 7.2K LFF LP ISE MV HDD
4	P53553-B21	HPE 20TB SAS 7.2K LFF LP ISE MV HDD	

Name	Guidelines		
Networking	Required. Must configure a minimum of 1 networking adapter. Supported adapters are listed below:		
	SKU	Description	
	P26253-B21	BCM 57416 10GbE 2p BASE-T Adptr	
	P26259-B21	BCM 57412 10GbE 2p SFP+ Adptr	
	P26262-B21	BCM 57414 10/25GbE 2p SFP28 Adptr	
	P42044-B21	MLX MCX631102 10/25GbE 2p SFP28 Adptr	
	P26264-B21	BCM 57504 10/25GbE 4p SFP28 Adptr	
	Note: The HPE ProLiant DL320 Gen11 configuration for Commvault HyperScale X N4 has 2 total PCIe slots and an OCP slot. The OCP slot contains the MR216i-o Storage Controller. One PCIe slot must contain a networking adapter. The second PCIe slot can contain another network adapter or a Fibre Channel HBA from the list of supported adapters.		
PCIe Fibre Channel HBA or SAS Controller	Optional. One of the below FC HBA or SAS Controllers can be configured if desired.		
	SKU	Description	
	R2J62A	HPE SN1610E 32Gb 1p FC HBA	
	R2E08A	HPE SN1610Q 32Gb 1p FC HBA	
	R2E09A	HPE SN1610Q 32Gb 2p FC HBA	
	R2J63A	HPE SN1610E 32Gb 2p FC HBA	
	804398-B21	HPE Smart Array E208e-p SR Gen10 Ctrl	
	Note: The HPE ProLiant DL320 Gen11 configuration for Commvault HyperScale X N4 has 2 total PCIe slots and an OCP slot. The OCP slot contains the MR216i-o Storage Controller. One PCIe slot must contain a networking adapter. The second PCIe slot can contain another network adapter, PCIe Fibre Channel HBA, or SAS Controller from the list of supported adapters.		
Racking and Security	The following are optional selections:		
	Quantity	SKU	Description
	1	P52351-B21	HPE DL3XX Gen11 Easy Install Rail 2 Kit
	1	P26489-B21	HPE DL300 Gen10+ 1U CMA for Rail Kit
	1	P50450-B21	HPE ProLiant Gen11 1U Com Bezel Kit
	1	875519-B21	HPE Bezel Lock Kit
	1	P55417-B21	HPE DL320 Gen11 Intrusion Cbl Kit
Power Supplies	Dual power supplies are required for redundancy. Choose from the below supported power supplies:		
	Quantity	SKU	Description
	2	P03178-B21	HPE 1000W FS Ti Ht Plg PS Kit
	2	P38995-B21	HPE 800W FS Plat Ht Plg LH PS Kit
HPE iLO Advanced	HPE iLO Advanced is required. Select one of the HPE iLO Advanced SKUs below:		
	HPE iLO Advanced:		
	Quantity	SKU	Description
	1	BD505A	HPE iLO Adv 1-svr Lic 3yr Support

Name	Guidelines																					
HPE Management Software	<p>HPE Compute Ops Management (COM) or HPE OneView is required. HPE Compute Ops Management is highly recommended. Select one of the HPE Compute Ops Management or HPE OneView SKUs below:</p> <p>HPE Compute Ops Management:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>R7A11AAE</td> <td>GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS</td> </tr> <tr> <td>1</td> <td>R7A12AAE</td> <td>GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS</td> </tr> </tbody> </table> <p>Note: If HPE Compute Ops Management is selected then S1A05A GreenLake COM Enablement SKU must also be selected:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S1A05A</td> <td>HPE Compute Cloud Management Server FIO Enablement</td> </tr> </tbody> </table> <p>HPE OneView:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P8B26AAE</td> <td>HPE OV w/o iLO 3yr 24x7 Flex Qty E-LTU</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	R7A11AAE	GreenLake for Compute Ops Management Enhanced 3-year Upfront ProLiant SaaS	1	R7A12AAE	GreenLake for Compute Ops Management Enhanced 5-year Upfront ProLiant SaaS	Quantity	SKU	Description	1	S1A05A	HPE Compute Cloud Management Server FIO Enablement	Quantity	SKU	Description	1	P8B26AAE	HPE OV w/o iLO 3yr 24x7 Flex Qty E-LTU
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Transceivers and network cables	<p>A minimum of two 10 Gb or higher speed network connections per HyperScale server are required. Transceivers and network cables are required for these server-to-network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information, refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs.</p>																					
HPE Services	<p>HPE Tech Care Service and Hardware Installation Services are required for each server configured for Commvault HyperScale X. It is recommended to keep the default HPE Tech Care Service when configuring the server in OCA, but the HPE Tech Care Service level can be changed to meet the customer's requirements.</p> <p>For more details on each HPE Tech Care Service offering, reference the HPE Tech Care Service data sheet</p>																					
Commvault HyperScale X Software/E-LTU	<p>A Commvault HyperScale X 4-drive node subscription E-LTU or perpetual E-LTU must be included with each node. If perpetual E-LTU is selected, then a minimum quantity of 12 Commvault HyperScale X 4-drive Node per Node 1-month Maintenance is required.</p> <p>Commvault HyperScale X 4-drive node E-LTUs:</p> <table border="1"> <tbody> <tr> <td>R8S97AAE</td> <td>CVLT HyperScale X 4Drv Nd Perp E-LTU</td> </tr> <tr> <td>R8S99AAE</td> <td>CVLT HyperScale X 4Drv Nd 1yr Sub E-LTU</td> </tr> <tr> <td>R8T00AAE</td> <td>CVLT HyperScale X 4Drv Nd 2yr Sub E-LTU</td> </tr> <tr> <td>R8T01AAE</td> <td>CVLT HyperScale X 4Drv Nd 3yr Sub E-LTU</td> </tr> <tr> <td>R8T02AAE</td> <td>CVLT HyperScale X 4Drv Nd 4yr Sub E-LTU</td> </tr> <tr> <td>R8T03AAE</td> <td>CVLT HyperScale X 4Drv Nd 5yr Sub E-LTU</td> </tr> </tbody> </table> <p>Commvault HyperScale X 4-drive Node Maintenance SKUs:</p> <table border="1"> <tbody> <tr> <td>R8S98AAE</td> <td>CVLT HyperScale X 4Drv Nd 1mo Maint</td> </tr> </tbody> </table>	R8S97AAE	CVLT HyperScale X 4Drv Nd Perp E-LTU	R8S99AAE	CVLT HyperScale X 4Drv Nd 1yr Sub E-LTU	R8T00AAE	CVLT HyperScale X 4Drv Nd 2yr Sub E-LTU	R8T01AAE	CVLT HyperScale X 4Drv Nd 3yr Sub E-LTU	R8T02AAE	CVLT HyperScale X 4Drv Nd 4yr Sub E-LTU	R8T03AAE	CVLT HyperScale X 4Drv Nd 5yr Sub E-LTU	R8S98AAE	CVLT HyperScale X 4Drv Nd 1mo Maint							
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Commvault HyperScale Edge Solutions

When selecting HDD capacity for a Commvault HyperScale Edge node, usable capacity will be reduced from raw capacity by required RAID configuration for these drives and by format/file system overhead. The Commvault HyperScale Edge node must use hardware RAID for HDDs and be configured prior to HyperScale Edge software installation.

HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge

The HPE ProLiant DL360 Gen11 4LFF server configuration

An HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge specific menu currently available in OCA. This menu is located in HPE One Config Advanced (OCA) by searching on 'Commvault' or on 'S6X65A'.

All Commvault HyperScale Edge nodes must include a Commvault HyperScale Edge E-LTU license.

Baseline Components

HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge node baseline components below are required in all configurations. Commvault HyperScale Edge licensing is per node regardless of the data HDD capacity configured. Commvault HyperScale Edge are deployed as single-node solutions.

Table 7. Baseline Components—HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge

Quantity	SKU	Description	Variable Component	Notes
1	S6X65A	HPE ProLiant DL360 Gen11 4LFF CTO Server for Commvault Hyperscale Edge	No	Base Chassis
1	*	Tracking SKU	Yes	Refer to Table 8
2	P67091-B21	Intel® Xeon® Silver 4510 2.4GHz 12-core 150W Processor for HPE	No	Processor
*	*	Memory	Yes	Refer to Table 8
1	P37009-B21	HPE 960GB SAS 12G Mixed Use LFF LPC Value SAS Multi Vendor SSD	No	Cache Drive
3	*	Data Storage Drives	Yes	Refer to Table 8
1	P48903-B21	HPE ProLiant DL360 Gen11 x16 LP Riser Kit	No	Riser
1	P58335-B21	HPE MR408i-o Gen11 x8 Lanes 4GB Cache OCP SPDM Storage Controller	No	Storage Controller
1	P48918-B21	PE ProLiant DL360 Gen11 Storage Controller Enablement Cable Kit	No	Cable Kit
*	*	Storage Controller Battery Backup	Yes	Refer to Table 8
1	P48908-B21	HPE ProLiant DL3X0 Gen11 1U High Performance Fan Kit	No	Fan Kit
1	P48830-B21	HPE ProLiant DL3XX Gen11 CPU2 to OCP2 x8 Enablement Kit	No	OCP Cable Kit
1	P48913-B21	HPE ProLiant DL360 Gen11 LFF Internal Cable Kit	No	LFF Cable Kit
1	P48183-B21	HPE NS204i-u Gen11 NVMe Hot Plug Boot Optimized Storage Device	No	Boot Device
1	P54702-B21	HPE ProLiant DL360 Gen11 NS204i-u Rear Cable Kit	No	Boot Device Cable Kit

Quantity	SKU	Description	Variable Component	Notes
2	P48905-B21	HPE ProLiant DL3XX/560 Gen11 High Performance Heat Sink Kit	No	Processor Heatsink
*	*	Networking	Yes	Refer to Table 8
*	*	PCIe Fibre Channel HBA and External SAS Controllers	Yes	Refer to Table 8
*	*	Racking and Security	Yes	Refer to Table 8
2	*	Power Supplies	Yes	Refer to Table 8
1	*	HPE iLO Advanced and HPE Compute Ops Mgmt	Yes	Refer to Table 8
*	*	Transceivers and network cables	Yes	Refer to Table 8
*	*	HPE Services	Yes	Refer to Table 8
*	*	Commvault Hyperscale Edge Software/E-LTU	Yes	Refer to Table 8

* Refer to [Table 8](#) Variable component for HPE ProLiant DL360 Gen11 for Commvault HyperScale Edge

Variable Component Guidelines

The guidelines below must be satisfied for each component category.

Table 8. Variable Components—HPE ProLiant DL360 Gen11 4LFF for Commvault HyperScale Edge

Name	Guidelines																		
Tracking SKU	<p>Required. Configure one of the tracking SKUs below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>S3P76AAE</td> <td>HPE Solutions with Commvault New Install Tracking</td> </tr> <tr> <td>1</td> <td>S3P77AAE</td> <td>HPE Solutions with Commvault Expansion Tracking</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	S3P76AAE	HPE Solutions with Commvault New Install Tracking	1	S3P77AAE	HPE Solutions with Commvault Expansion Tracking									
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1	S3P76AAE	HPE Solutions with Commvault New Install Tracking																	
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Memory	<p>Required. Minimum 4x16 GB DIMMs (64 GB) required. Additional memory can be configured as desired.</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Minimum 4</td> <td>P64705-B21</td> <td>HPE 16GB Single Rank x8 DDR5-5600 CAS-46-45-45 EC8 Registered Smart Memory Kit</td> </tr> </tbody> </table>	Quantity	SKU	Description	Minimum 4	P64705-B21	HPE 16GB Single Rank x8 DDR5-5600 CAS-46-45-45 EC8 Registered Smart Memory Kit												
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Data Storage Drives	<p>Required. Quantity 3 must be configured. One of the below supported data storage options must be included. Mixing data drive capacities within a node is not supported.</p> <p>Supported Data Drives:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>3</td> <td>833928-B21</td> <td>HPE 4TB SAS 7.2K LFF LP MV HDD</td> </tr> <tr> <td>3</td> <td>834031-B21</td> <td>HPE 8TB SAS 7.2K LFF LP 512e MV HDD</td> </tr> <tr> <td>3</td> <td>881781-B21</td> <td>HPE 12TB SAS 7.2K LFF LP He 512e MV HDD</td> </tr> <tr> <td>3</td> <td>P23608-B21</td> <td>HPE 16TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> <tr> <td>3</td> <td>P53553-B21</td> <td>HPE 20TB SAS 7.2K LFF LP ISE MV HDD</td> </tr> </tbody> </table> <p>Note: Data Storage Drives within a Commvault HyperScale Edge node must be configured as hardware RAID. Since the HPE ProLiant DL360 Gen11 for HyperScale Edge has quantity 3 Data Storage Drives, RAID 5 must be used. Configure these drives as RAID 5 prior to Commvault HyperScale Edge software installation.</p>	Quantity	SKU	Description	3	833928-B21	HPE 4TB SAS 7.2K LFF LP MV HDD	3	834031-B21	HPE 8TB SAS 7.2K LFF LP 512e MV HDD	3	881781-B21	HPE 12TB SAS 7.2K LFF LP He 512e MV HDD	3	P23608-B21	HPE 16TB SAS 7.2K LFF LP ISE MV HDD	3	P53553-B21	HPE 20TB SAS 7.2K LFF LP ISE MV HDD
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Storage Controller Battery Backup	<p>Required. Must configure one of the Storage Controller battery Backup devices below:</p> <table border="1"> <thead> <tr> <th>Quantity</th> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>P01366-B21</td> <td>HPE 96W Smart Stg Li-ion Batt 145mm Kit</td> </tr> <tr> <td>1</td> <td>P02377-B21</td> <td>HPE Smart Hybrid Capacitor w/ 145mm Cbl</td> </tr> </tbody> </table>	Quantity	SKU	Description	1	P01366-B21	HPE 96W Smart Stg Li-ion Batt 145mm Kit	1	P02377-B21	HPE Smart Hybrid Capacitor w/ 145mm Cbl									
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Networking	<p>Required. Must configure a minimum of 1 PCIe or OCP network adapter. Supported adapters are listed below:</p> <p>Supported PCIe Network adapters:</p> <table border="1"> <thead> <tr> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>P26253-B21</td> <td>Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE</td> </tr> <tr> <td>P26259-B21</td> <td>Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE</td> </tr> <tr> <td>P26262-B21</td> <td>Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE</td> </tr> <tr> <td>P26264-B21</td> <td>Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE</td> </tr> <tr> <td>P42044-B21</td> <td>ellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE</td> </tr> </tbody> </table> <p>Supported OCP Network adapters:</p> <table border="1"> <thead> <tr> <th>SKU</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>P08449-B21</td> <td>Intel® I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE</td> </tr> <tr> <td>P10115-B21</td> <td>Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE</td> </tr> <tr> <td>P42041-B21</td> <td>Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE</td> </tr> <tr> <td>P51181-B21</td> <td>Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE</td> </tr> <tr> <td>P10097-B21</td> <td>Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE</td> </tr> <tr> <td>P26256-B21</td> <td>Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE</td> </tr> </tbody> </table> <p>Note: The HPE ProLiant DL360 Gen11 4LFF server configuration for Commvault Hyperscale Edge has 2 total PCIe slots and 2 total OCP slots. One OCP slot contains the MR408i-o storage controller leaving one OCP slot for a networking adapter choice. The 2 PCIe slots are available for networking adapter choices or optional FC HBA or External SAS Controller selections.</p>	SKU	Description	P26253-B21	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T Adapter for HPE	P26259-B21	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ Adapter for HPE	P26262-B21	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	P26264-B21	Broadcom BCM57504 Ethernet 10/25Gb 4-port SFP28 Adapter for HPE	P42044-B21	ellanox MCX631102AS-ADAT Ethernet 10/25Gb 2-port SFP28 Adapter for HPE	SKU	Description	P08449-B21	Intel® I350-T4 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P10115-B21	Broadcom BCM57414 Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P42041-B21	Mellanox MCX631432AS-ADAI Ethernet 10/25Gb 2-port SFP28 OCP3 Adapter for HPE	P51181-B21	Broadcom BCM5719 Ethernet 1Gb 4-port BASE-T OCP3 Adapter for HPE	P10097-B21	Broadcom BCM57416 Ethernet 10Gb 2-port BASE-T OCP3 Adapter for HPE	P26256-B21	Broadcom BCM57412 Ethernet 10Gb 2-port SFP+ OCP3 Adapter for HPE
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Transceivers and network cables	<p>Transceivers and network cables are required for server-to-network switch connections. The type and quantity of transceivers and cables required is dependent on planned implementation speed (10 Gb/25 Gb), switch type and medium type (copper or optical). For more information, refer to the HPE Ethernet 10/25Gb Adapters QuickSpecs and the HPE Ethernet Transceivers and Cables QuickSpecs.</p>																		
HPE Services	<p>HPE Tech Care Service and Hardware Installation Services are required for each server configured for Commvault Hyperscale Edge. It is recommended to keep the default HPE Tech Care Service when configuring the server in OCA, but the HPE Tech Care Service level can be changed to meet the customer's requirements.</p> <p>For more details on each HPE Tech Care Service offering, reference the HPE Tech Care Service Data Sheet</p>																		
Commvault Hyperscale Edge Software/E-LTU	<p>A Commvault HyperScale Edge node subscription E-LTU or perpetual E-LTU must be included with each node. If perpetual E-LTU is selected, then a minimum quantity of 12 Commvault HyperScale Edge Node 1-month Maintenance SKUs are required.</p> <p>Commvault HyperScale Edge node E-LTUs:</p> <table border="1"> <tbody> <tr> <td>S6Y25AAE</td> <td>Commvault Cloud Hyperscale Edge Node Perpetual E-LTU</td> </tr> <tr> <td>S6Y26AAE</td> <td>Commvault Cloud Hyperscale Edge Node 1-year Subscription E-LTU</td> </tr> <tr> <td>S6Y27AAE</td> <td>Commvault Cloud Hyperscale Edge Node 3-year Subscription E-LTU</td> </tr> <tr> <td>S6Y28AAE</td> <td>Commvault Cloud Hyperscale Edge Node 5-year Subscription E-LTU</td> </tr> </tbody> </table> <p>Commvault Hyperscale Edge node Maintenance SKUs:</p> <table border="1"> <tbody> <tr> <td>S6Y29AAE</td> <td>Commvault Cloud Hyperscale Edge Node Monthly Maintenance</td> </tr> </tbody> </table>	S6Y25AAE	Commvault Cloud Hyperscale Edge Node Perpetual E-LTU	S6Y26AAE	Commvault Cloud Hyperscale Edge Node 1-year Subscription E-LTU	S6Y27AAE	Commvault Cloud Hyperscale Edge Node 3-year Subscription E-LTU	S6Y28AAE	Commvault Cloud Hyperscale Edge Node 5-year Subscription E-LTU	S6Y29AAE	Commvault Cloud Hyperscale Edge Node Monthly Maintenance								
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