Supported Configuration Specification and Customer Acknowledgement

The customer understands, acknowledges and agrees that Qumulo's obligations under the "Qumulo Software Subscription Support" and "Qumulo Mission Q Services" support offerings described under "Support Offerings" listed on https://qumulo.com/terms-hub/ shall be limited to the below specified hardware configurations under Platinum and/or Gold Tiers.

Should the customer elect to run an unsupported hardware configuration, Qumulo will utilize commercially reasonable efforts to support the customer, but makes no guarantee that our software will operate as designed. Commercially reasonable efforts shall specifically exclude any obligation on Qumulo for any custom software development required to make its software function properly on unsupported hardware. Finally, Qumulo will not be responsible for any data loss or business interruptions that occur due to the customer's use of such unsupported hardware.

See the Qumulo End of Life Policy for more information on support timelines.
See the Software Use Guidelines for information on software transferability and additional use restrictions

Qumulo Supported Hardware Platforms - Platinum Tier

Platinum Tier platforms consist of locked qualified SKUs with Qumulo-OEM/ODM Partners who have an established Go-to Market motion. All changes to the SKUs will require Qumulo and the Partner to review, approve and release them, at their discretion.

Key Qualified Components in Platinum Tier Locked SKUs

Partner	Platform	Chassis	HBA	CPU	HDD (Hot-swappable)	NVMe/ SATA SSD (Hot-swappable)	NIC
HPE	Apollo 4200 Gen10 Plus	ProLiant XL420 Gen10 Plus	E208i-p SR /P408i-p SR /P816i-a SR Gen10	Intel: Xeon 4310	Toshiba: MG04/MG08/MG10 WDC: HC320/HC330/HC560 Seagate: Exos 7E8/ 7E10/X20	Kioxia: CD6/CD8 Micron: 7450/7500 SKHynix: PE8030/PE8130	Mellanox: CX4/CX5/CX6 Broadcom: P225P Intel: E810CQDA2
	Apollo 4200 Gen10	ProLiant XL420 Gen10		Intel: Xeon: 4210/4210R/ 4208	Toshiba:MG04/MG06/MG07/ MG08/MG09 WDC: HC320/HC330/HC530 /HC550 Seagate: Exos 7E8/7E10/X10/X16/ X18/X20	Micron: 5300 Samsung: SM883/PM897	Mellanox: CX4/ CX5
	Apollo 4200 Gen9	ProLiant XL420 Gen9		Intel: Xeon 2620	Toshiba: MG07/MG09 WDC: HC520 Seagate: Exos X12/X14/X18/X24	Micron: 5200 Samsung: PM883	Mellanox: CX4/ CX5
	Proliant DL325 Gen10 Plus	ProLiant DL325 Gen10 Plus	N/A	AMD: EPYC 7402P	N/A	Samsung: PM1733	Mellanox: CX5/CX6
	Alletra 4110	Alletra 4110 20 EDSFF	N/A	Intel: Xeon 4410Y/4510/ 4416+/6526Y	N/A	Samsung: 1743 Kioxia: CD7/CM7 Solidigm P5430	Mellanox: CX6 Intel: E810CQDA2

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Partner	Platform	Chassis	HBA	CPU	HDD (Hot-swappable)	NVMe/ SATA SSD (Hot-swappable)	NIC
HPE	HPE Alletra 4140	HPE Alletra Storage Server 4140 92LFF	HPE 41X0 SR 32-port PCIe FIO Storage Controller	Intel: Xeon 4410Y	Any SAS/SATA qualified by HPE	Any NVMe qualified by HPE	Intel E810-XXVDA2
	HPE Alletra 4140	HPE Alletra Storage Server 4140 68LFF		Intel: Xeon 4410Y	Any SAS/SATA qualified by HPE	Any NVMe qualified by HPE	Intel E810-XXVDA2
FUJITSU	PRIMERGY RX2540 M7	PYR2547RAN	Fujitsu PSAS CP2100-8i	Intel: Xeon 4410T	Seagate: Exos X18	Kioxia: CM6/CM7	Intel: E810-XXVDA2
ARROW	Quiver 1U All NVMe	RS500A-E12-RS12U	N/A	AMD: EPYC 9254	N/A	WDC: SN640/650 Micron: 7450	Mellanox: CX6 Broadcom: P2100G
	Quiver 1U Hybrid	QuantaGrid D52T-1ULH	SAS 9300-8i (SAS3008)	Intel: Xeon 3204/4210	WDC: HC320/HC560 Seagate: Exos X20	WDC: SN640/650 Samsung: PM983 Micron: 7300/7450	Mellanox: CX4/CX5 Broadcom: P225P/P2100G
	Quiver 2U Hybrid	SIENAD8-2L2T	Broadcom 9500-8i	AMD: EPYC 8124P	WDC: HC580	Solidigm: P5620 Micron: 7450	Broadcom: P225P/P2100G
ARROW - ODM	AIC 2U Hybrid	QAIC-2UH-G1	Broadcom 9305-16i	AMD: EPYC 7282	WDC: HC320/HC550	Micron: 7300, 7450 WDC: SN640	Mellanox: CX4/CX5 Broadcom: P225P/P2100G

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Partner	Platform	Chassis	HBA	CPU	HDD (Hot-swappable)	NVMe/ SATA SSD (Hot-swappable)	NIC
ARROW - ODM	Quanta 1U Hybrid	SD1Q-1ULH	Broadcom QS-3008-8i	Intel: Xeon D-1531	WDC: HC310/HC530 Vela-A/HE12	Micron: 5300/5400	Mellanox: CX4
	Intel 2U All NVMe	S2600WFT	N/A	Intel: Xeon 6126	N/A	Micron: 7450/9300 WDC: SN640/ SN650/SN840 Samsung: PM983	Mellanox: CX5 Broadcom: P2100G
SUPERMICRO	SMC 1U All NVMe	A+ WIO 1114S-WN10RT	N/A	AMD: EPYC 7402P/7443P	N/A	Micron 7300/7450 WDC: SN640/SN650 Samsung: PM983	Mellanox: CX6 Broadcom: P2100G
	SMC 1U Hybrid	A+ ASG-1014S-AC R12N4H	Broadcom: SAS 3916	AMD: EPYC 7232P/7313P	WDC: HC320/HC550/HC560/ He8 Seagate: Exos 7E8/7E10/X18/X20		Mellanox: CX4/CX6 Broadcom: P225P/P2100G
	SMC 2U Hybrid	Storage A+ Server ASG-2015S-E1 CR24L	SAS3808	AMD EPYC 9124	Seagate: Exos X24	Micron: 7450 MAX	Mellanox: CX6 Broadcom: P225P/P2100G Intel: E810-XXV

Qumulo Supported Hardware Platforms - Gold Tier

Gold Tier Platforms consist of compatible key components in the form of chassis, drives, NICs that are requested by customers and/or reseller partners to allow for a specific sale through opportunity for Qumulo Software. Qumulo intends to grow this list by engaging with internal and external Sales teams. Customers and/or partners are allowed to build SKUs of their choice as long as the below listed "Must Haves" and "Recommendations" are met.

This could include:
- Hardware, the customer has onsite already (or)
- Hardware, the customer intends to buy through an existing Qumulo <> OEM/ODM channel but not part of the pre-defined Platinum SKUs (or)
- Hardware, the customer intends to buy directly through a non Qumulo <> OEM/ODM channel or vendor

Must Haves:
- X86 Architecture only
- Non-JBOD (HDD) Architecture only
- Hybrid Architecture needs an approved HDD: SSD/NVMe ratio
- Ethernet networking only
- Minimum of 4x Nodes in a cluster
- Power fault safe HDDs/SSD/NVMe

Minimum Recommendations for performance benchmarking:
- 24x Core CPU for All-flash configurations
- 6x NVMe for All-flash configurations
- 0.5 DWPD endurant NVMe drives for All-flash configurations
- 8x Core CPU for Hybrid configurations
- 128GB of RAM for All-flash/Hybrid configurations
- 4x NVMe in a Hybrid configuration
- Populate all HDD bays in a Hybrid configurations

Key Compatible Components in Gold Tier Platforms

Vendor/ Partner	Platform	Chassis	HBA	CPU	HDD	NVMe/ SATA SSD (Hot-swappable)	NIC
DELL	PowerEdge R7615	Chassis with up to 12x, 16x, 24x NVMe Drives	N/A	AMD: EPYC	N/A	Recommended min QTY: 10 Capacity: Any	Broadcom: 57414/57416/57508 Intel: E810-XXV/E810-CQDA2 Mellanox: CX6
	PowerEdge R760XD2	PERC 11 w/ 4x 3.5" Rear NVMe Drives	HBA355i, PERC12	Intel: Xeon	Any SAS/SATA HDD. Supported Capacities: 8, 12, 16, 20, 22	4x[960GB - 7.68TB]* *Higher Cache recommended for higher raw capacities	Broadcom: 57414/57416/57508 Intel: E810-XXV/E810-CQDA2 Mellanox: CX6
HPE	HPE A4200 Gen10+	HPE A4200 Gen10+ 56SFF TAA CTO System	HPE Smart Array E208i-p	Intel: Xeon	N/A	Any SAS/SATA SSD	Mellanox: CX6 Intel: E810CQDA2

Qumulo Supported Platforms (Onprem, Edge, Cloud) - Lifecycle Information

Below is a list of all platforms (Onprem, Edge, Cloud) Qumulo is currently supported to run on.

End of Availability (EoA) : Defined by the Hardware/Cloud vendor as the last date a platform will be available for sale

End of Platform Support (EoPS) : Defined by the Hardware vendor as the last date a platform will be supported

SKU	Active Platform	Software License Class	Cluster Type	Platform Release Date	Minimum Software Version Required For Hardware Support	End of Availability Date (EoA)	End of Platform Support Date (EoPS)
Arrow AH576T	Yes	Active/ General Purpose	Hybrid	November 2024	v7.3.1		
HPE Alletra 4140 1200T, 1600T	Yes	Active/ General Purpose	Hybrid	June 2024	v7.1.2		
Fujitsu RX2540M7-48T, 96T, 144T, 240T	Yes	Active/ General Purpose	Hybrid/ Archive	October 2023	v6.3.2		
Arrow QVRNVMEG1-46T, 92T, 184T, 245T	Yes	Active	All-NVMe	July 2023	v6.2.0		
Arrow QVRG2-48T, 96T, 240T	Yes	Active/ General Purpose	Hybrid/ Archive	December 2022/April 2023/October 2024	v5.3.1/v6.0.2/v7.2.3		
Arrow C-192T, C432T, K432T	Yes	Active/ General Purpose	Hybrid/ Archive	August 2021/October 2021	v3.3.1/v4.2.6		
HPE Alletra 4110 38T, 153T, 307T	Yes	Active	All-NVMe	August 2023	v7.0.0.1		

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SKU	Active Platform	Software License Class	Cluster Type	Platform Release Date	Minimum Software Version Required For Hardware Support	End of Availability Date (EoA)	End of Platform Support Date (EoPS)
HPE Apollo 4200 Gen10+36T, 90T, 240T, 480T	Yes	Active/ General Purpose	Hybrid/ Archive	December 2022	v5.3.3/v6.2.1		
Supermicro A+ ASG-2015S 576TB	Yes	Active/ General Purpose	Hybrid	April 2024	v6.2.2		
Supermicro A+ WIO 1114S-WN10RT All-NVMe 30TB, 76T, 153TB	Yes	Active	All-NVMe	August 2021	v4.2.0		
Supermicro A+ ASG-1014S-ACR12N4H NVMe Hybrid 96T, 216T, 240T	Yes	Active/ General Purpose	Hybrid/ Archive	November 2022/April 2023	v5.2.5/v6.0.2		
Amazon Web Services	Yes	Not Applicable	Not Applicable	September 2017	Not Applicable		
Azure Native Qumulo	Yes	Not Applicable	Not Applicable	November 2023	Not Applicable		
Google Cloud Platform	Yes	Not Applicable	Not Applicable	August 2019	Not Applicable	June 1st, 2024	Not Applicable
HPE ProLiant DL325 Gen10 Plus 34TB, 145TB, 291TB All-NVMe Flash	Yes	Active	All-NVMe	December 2020	v3.3.3/v4.2.0	October 31st, 2023	October 31st, 2028
HPE Apollo 4200 Gen10 36T, 90T, 192T, 336T	Yes	Active	Hybrid	December 2019	v2.14.3	October 31st, 2023	October 31st, 2028

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SKU	Active Platform	Software License Class	Cluster Type	Platform Release Date	Minimum Software Version Required For Hardware Support	End of Availability Date (EoA)	End of Platform Support Date (EoPS)
Arrow P-23T, 92T, 184T, 368T	Yes	Active	All-NVMe	August 2021	v2.12.2	June 30th, 2023	June 30th, 2028
Arrow C-72T, C168T, K144T, K168T	Yes	Active/ General Purpose	Hybrid/ Archive	August 2021	V2.12.6/v2.13.0	January 30th, 2023	January 30th, 2028
Qumulo QC24, QC40, QC104, QC208, QC260, QC360	Yes	Active/ General Purpose	Hybrid/ Archive	August 2014/ December 2016/May 2015/December 2016/April 2018	v2.12.2	February 28th, 2021	February 28th, 2026
HPE Apollo 4200 Gen9 90T, 180T, 288T	Yes	Active/ General Purpose	Hybrid/ Archive	February 2018/April 2017/October 2018	v2.7.11/v2.6.2/v2.12.3	April 30th, 2020	May 31, 2025
Qumulo P-23T, 92T, 184T, 368T	Yes	Active	All-NVMe	June 2018/ November 2018/ August 2019/ March 2020	v2.12.2/v2.13.5/v3.0.3	Replaced by Arrow P-23T	June 30th, 2028
Qumulo C-72T, C168T, K144T, K168T	Yes	Active/ General Purpose	Hybrid/ Archive	April 2019	v2.12.6/v2.13.0	Replaced by Arrow C-72T/K144T/K168T	January 30th, 2028
Qumulo C-192T, C432T	Yes	Active/ General Purpose	Hybrid/ Archive	November 2020	v3.3.1	Replaced by Arrow C-192T, C432T	

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