

ONTAP 9.3 Maximum Configurations Guide																		
MetroCluster (4 Node Cluster Per Site NAS, 2 Node Cluster Per Site SAN, 2 Sites)																		
Category	Description	Scope	Code Enforced	Scales by Scope	Platform Agnostic	Cluster Minimum	FAS8200		FAS8300		FAS8600		FAS9600		FAS 9200 AFF A200		FAS9900	
							Memory 250GB/node	Platform Maximum	Memory 250GB/node	Platform Maximum	Memory 512GB/node	Platform Maximum	Memory 1200GB/node	Platform Maximum	Memory 1200GB/node	Platform Maximum	Memory 1200GB/node	Platform Maximum
1	Core	Maximum number of nodes - NAS	Node	N/A	N/A	N/A	4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	Core	Maximum number of storage virtual machines (SVMs) - NAS	Node	N/A	N/A	N/A	Per Platform	32	32	64	64	64	64	64	64	64	64	
			HA Pair	N/A	N/A	N/A	Maximum	32	32	64	64	64	64	64	64	64	64	
			Cluster	N/A	N/A	N/A	N/A	32	32	64	64	64	64	64	64	64	64	
3	Core	Maximum number of LUNs - NAS	Node	N/A	N/A	N/A	Per Platform	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	Maximum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
4	Core	Maximum number of connections - NAS	Node	N/A	N/A	N/A	N/A	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
			HA Pair	N/A	N/A	N/A	N/A	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
			Cluster	N/A	N/A	N/A	N/A	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,500	
5	Core	Maximum number of flexible volumes - NAS	Node	N/A	N/A	N/A	Per Platform	128	128	256	256	256	256	256	256	256	256	
			HA Pair	N/A	N/A	Yes	Maximum	256	256	512	512	512	512	512	512	512	512	
			Cluster	N/A	N/A	N/A	N/A	256	256	512	512	512	512	512	512	512	512	
6	Core	Maximum number of FlexGroups - NAS	Node	N/A	N/A	N/A	Per Platform	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	Maximum	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
7	Core	Maximum number of lock manager locked objects (CIFS and NFS combined)	Node	Yes	Yes	N/A	Per Platform	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	
			HA Pair	Yes	Yes	N/A	Maximum	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	700,000	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
8	NFS	Maximum number of export policies	Node	N/A	N/A	N/A	Per Platform	500	500	500	500	500	500	500	500	500	500	
			HA Pair	N/A	N/A	Yes	Maximum	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	1,000	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
9	NFS	Maximum number of export rules	Node	N/A	N/A	N/A	Per Platform	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	Maximum	35,000	35,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	
			Cluster	N/A	N/A	N/A	N/A	35,000	35,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	70,000	
10	NFS	Maximum NFSv4 access control entries	Node	N/A	N/A	N/A	N/A	512	1,024	1,024	1,024	1,024	1,024	1,024	1,024	1,024	1,024	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
11	NFS	Maximum number of client objects	Node	Yes	Yes	N/A	Per Platform	51,200	102,400	102,400	102,400	102,400	102,400	102,400	102,400	102,400	102,400	
			HA Pair	Yes	Yes	N/A	Maximum	51,200	102,400	102,400	102,400	102,400	102,400	102,400	102,400	102,400	102,400	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
12	NFS	Maximum number of pNFS objects	Node	Yes	Yes	N/A	Per Platform	512,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	
			HA Pair	Yes	Yes	N/A	Maximum	512,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	1,024,000	
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
13	WAN/LB	Maximum size of a 64-bit aggregate	Aggregate	Yes	N/A	N/A	N/A	324TB	324TB	400TB	400TB	400TB	400TB	400TB	400TB	400TB	400TB	
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
14	WAN/LB	Maximum size of a 64-bit volume	Volume	Yes	N/A	N/A	N/A	32TB	32TB	32TB	32TB	32TB	32TB	32TB	32TB	32TB	32TB	
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
15	WAN/LB	Maximum file size in a 64-bit volume	File	Yes	N/A	Yes	N/A	16TB	16TB	16TB	16TB	16TB	16TB	16TB	16TB	16TB	16TB	
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
16	WAN/LB	Maximum number of volume Snapshot** copies	Volume	Yes	N/A	N/A	N/A	255	255	255	255	255	255	255	255	255	255	
			Node	Yes	Yes	Yes	N/A	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	
			HA Pair	Yes	Yes	Yes	N/A	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	63,750	
17	WAN/LB	Maximum character length for Snapshot copy names	Snapshot	N/A	N/A	N/A	N/A	255	255	255	255	255	255	255	255	255	255	
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
18	WAN/LB	Maximum number of hard links	File	Yes	N/A	Yes	N/A	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	100,000	
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
19	WAN/LB	Maximum number of inodes/files	Volume	N/A	N/A	N/A	N/A	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	2,000,000,000	
			Node	N/A	N/A	N/A	N/A	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	
			HA Pair	N/A	N/A	N/A	N/A	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	50,000,000,000	
20	WAN/LB	Maximum number of files	Volume	Yes	N/A	N/A	Per Platform	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095	4,095	
			Node	N/A	N/A	Yes	Maximum	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000
			HA Pair	N/A	N/A	N/A	N/A	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	15,000	
21	WAN/LB	Maximum number of concurrent DataLifter** for volumes and mount operations	Node	N/A	N/A	Yes	N/A	8	8	8	8	8	8	8	8	8	8	
			HA Pair	N/A	N/A	N/A	N/A	8	8	8	8	8	8	8	8	8	8	8
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
22	Quality of Service	Maximum number of policy groups	Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
23	Quality of Service	Maximum number of QoS user workloads	Policy Group	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Node	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
24	Quality of Service	Maximum number of nodes participating in QoS	Node	N/A	N/A	N/A	4 (per site)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
25	Quality of Service	Maximum number of QoS autonomous workloads	Node	N/A	N/A	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
26	Quality of Service	Maximum number of QoS system workloads	Node	Yes	Yes	Yes	N/A	2,500	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	Yes	Yes	Yes	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
27	SAN	Maximum number of nodes - SAN	Node	N/A	N/A	N/A	2 (per site)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
			Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
28	SAN	Maximum number of storage virtual machines (SVMs) - SAN	Node	N/A	N/A	N/A	Per Platform	32	32	64	64	64	64	64	64	64	64	
			HA Pair	N/A	N/A	Yes	Maximum	32	32	64	64	64	64	64	64	64	64	
			Cluster	N/A	N/A	N/A	N/A	32	32	64	64	64	64	64	64	64	64	
29	SAN	Maximum number of flexible volumes - SAN	Node	Yes	N/A	N/A	Per Platform	128	128	256	256	256	256	256	256	256	256	
			HA Pair	Yes	Yes	Yes	Maximum	256	256	512	512	512	512	512	512	512	512	
			Cluster	N/A	N/A	N/A	N/A	256	256	512	512	512	512	512	512	512	512	
30	SAN	Maximum number of LUNs	Volume	Yes	N/A	Yes	Per Platform	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
			HA Pair	N/A	N/A	Yes	Maximum	512	51									

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HOW TO READ THE MAXIMUM VALUES TABLE

Platform maximum values
listed by platform model

Clustered Data ONTAP 8.2, 8.2.1 Maximum Configurations Guide														
Small-Sized Clusters (4 nodes)														
Category	Description	Scope	Code Enforced	Scales by Scope	7-Mode	Platform Agnostic	Cluster Maximum							
								FA52220	FA52240	FA53160	FA53170	FA53210	FA53240	
								Platform Maximum	Platform Maximum	Platform Maximum	Platform Maximum	Platform Maximum	Platform Maximum	
Core	Maximum number of nodes - NAS	N/A	N/A	N/A	N/A	N/A	4	82,821	82,821	82,821	82,821	82,821	82,821	
		Node	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
		File	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A
		Volume	N/A	N/A	N/A	N/A		N/A	N/A	N/A	N/A	N/A	N/A	N/A

Platform-specific maximum values as they relate to the scope column

HOW SCOPE APPLIES TO CLUSTER AND PLATFORM MAXIMUM VALUES

The HA pair, node, and any subnode row of scope, along with the code enforced, scales by scope, 7-Mode, and platform-agnostic columns in the same row, apply to the various platform maximum value column entries located to the right of the cluster column

Category	Description	Scope	Code Execution Scope	7-Mode	Platform Agnostic	Cluster Maximum	Platform Maximum
					Supported Data ONTAP Versions 2.3		FA 56000 Platform Maximum
WAF	Maximum number of FlexCache® volumes	N/A	N/A	N/A	N/A	150	150
		Node	Yes	N/A	Yes	Yes	150
		HA Pair	Yes	Yes	N/A	Yes	250
		Cluster	Yes	Yes	N/A	Yes	250
WAF	Maximum number of concurrent DataMotion™ for Volumes (vol move) operations	N/A	N/A	N/A	N/A	25	25
		Node	Yes	N/A	Yes	Yes	25
		HA Pair	No	No	Yes	Yes	25
		Cluster	No	No	Yes	Yes	25

"N/A" in the cluster maximum column indicates that the maximum value is not a cluster resource, whereas any number that is specified in this field indicates that the maximums/objects are tracked as a cluster resource

UNDERSTANDING SCALES BY SCOPE FOR AN HA PAIR

YES: If the HA pair row Scales by Scope column is "yes," the platform maximum value entry for the HA pair row is double that of the node row, indicating that the node maximum value is doubled in fallover.

Category	Description	Scope	Config Enforcement	Scales by Scope	Y-Mode	Platform Agnostic	Cluster Maximum	Platform Maximum
		N/A	N/A	N/A	N/A	Supported Data ONTAP Versions only		82,823
WAF	Maximum number of FlexCache® volumes	Node	Yes	Yes	Yes	Yes	3,400	100
		HA Pair	Yes	Yes	Yes	Yes		200
		Cluster	Yes	Yes	No	Yes		200
WAF	Maximum number of concurrent DataLator™ for Volumes (vol move) operations	Node	N/A	N/A	N/A	Yes	0	25
		HA Pair	Yes	Yes	Yes	Yes	0	25
		Cluster	No	No	Yes	Yes		25

NO: If the HA pair row Scales by Scope column is "no," the platform maximum value entry for the HA pair row is the same as that of the node row, indicating that the node maximum value is not doubled in failover.

UNDERSTANDING SCALES BY SCOPE FOR A CLUSTER

YES: If the cluster row Scales by Scope column is "yes," the cluster maximum value entry scales in relation to the maximum number of nodes supported for the cluster

Category	Description	Scope	Core Information	Scales by Scope	7-Mode	Platform Agnostic	Cluster Minimum	Platform Maximum
								FA 56080
								Platform Maximum
								62,831
WAF	Maximum number of FlexCache® volumes	N/A	N/A	N/A	N/A	Supported Data ONTAP® Versions	2,400	N/A
		Node	Yes	Yes	Yes	Yes		100
		FlexCache	Yes	Yes	Yes	Yes		200
		Cluster	Yes	Yes	Yes	Yes		200
WAF	Maximum number of concurrent DataLotion™ for Volumes (vol move) operations	N/A	N/A	N/A	N/A	Yes	25	N/A
		Node	No	No	No	Yes		25
		FlexCache	No	No	Yes	Yes		25
		Cluster	No	No	Yes	Yes		25

NO: If the cluster row Scales by Scope column is "no," the cluster maximum value entry does not scale based on the maximum number of nodes supported for the cluster

NOTES AND CAVEATS

Maximum values in this document represent the maximum value supported by NetApp in any configuration.

Consult additional technical documentation (technical reports and more) for operational guidance, best practices, and recommendations for specific application or performance-sensitive environments.

The primary resource affected by maximum values is system memory. As a result, all sizing and design considerations around maximum values must consider overall impact to available system memory.

Special attention must be paid to maximum values that are not code enforced, because in many cases there is no warning that a maximum value will be or has been exceeded.

Special consideration must be given to maximum values that have related or equivalent maximum values in 7-Mode, because the context of how the maximum values apply may have changed, or the maximum values may be lower (or higher) than it was in 7-Mode. For example, 7-Mode uses `qtree` policies, whereas clustered Data ONTAP uses both `qtree` policies and rules; although they are named the same in both ONTAP versions, the specific implementation is different.

For node maximum values that do not scale across HA failover (HA pair and node maximum values are the same), NetApp recommends operating at half of the defined maximum value (not required) on a per-node basis to make sure that maximum values are not exceeded in failover. It is possible to operate at any distribution between the two nodes in the HA pair, so long as in failover the remaining node does not exceed the defined maximum value.

Clustered Data ONTAP platform mixing rules (link below) take precedence in all cases. Each sized cluster now includes "primary platforms" and "mixable platforms" entries that define which platforms are able to be mixed together based on the defined platform mixing rules. When mixing platforms across different-sized clusters, the cluster maximum values for the specific size of cluster apply, while the individual subnode, node, and HA pair maximum values continue to apply based on the platform model being used.

Clustered Data ONTAP Platform Mixing Rules

<https://fieldportal.netapp.com/Core/DownloadDoc.aspx?documentID=93126&contentID=125939>

The maximum values listed in this document are valid only through the expiration date that is listed to the right of the main title bar. After expiration, visit the NetApp Field Portal to obtain the latest version of the maximum configurations document.

Future releases of this document will expand clustered Data ONTAP maximum values information into additional feature and functional areas. Additionally, existing maximum values will be revised and expanded.



Clustered Data ONTAP 8.3.x Maximum Configurations: Release 3.0

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