

ONTAP 9.2 Maximum Configurations Guide												
Category	Description	Scope	Code Enforced	Scales By Scope	Platform Agnostic	Cluster Maximum	FAS8020 Memory 24GB/node Platform Maximum	FAS8040 Memory 32GB/node Platform Maximum	FAS8060 Memory 64GB/node Platform Maximum	FAS8080 Memory 128GB/node Platform Maximum	FAS 8200 AFF A300 Memory 128GB/node Platform Maximum	FAS9000 Memory 512GB/node Platform Maximum
1	Core	Maximum number of nodes - NAS	Node HA Pair Cluster	N/A N/A N/A	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 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 HA Pair Cluster	No N/A N/A	No N/A N/A	Per Platform HA Pair Maximum	32 32 32	32 32 32	64 64 64	64 64 64	64 64 64	64 64 64
3	Core	Maximum number of LIFs - NAS	Node HA Pair Cluster	No No No	N/A No No	Per Platform HA Pair Maximum	128 128 256	128 128 256	128 128 256	128 128 256	128 128 256	128 128 256
4	Core	Maximum number of connections - NAS	Node HA Pair Cluster	No No No	N/A No No	N/A	N/A 2,500 5,000	N/A 2,500 5,000	N/A 2,500 5,000	N/A 2,500 5,000	N/A 2,500 5,000	N/A 2,500 5,000
5	Core	Maximum number of flexible volumes - NAS	Node HA Pair Cluster	No N/A Yes	N/A No Yes	Per Platform HA Pair Maximum	250 250 500	250 250 500	500 500 1,000	500 500 1,000	500 500 1,000	500 500 1,000
5	Core	Maximum number of FlexGroups - NAS	Node HA Pair Cluster	N/A N/A N/A	N/A N/A N/A	Per Platform HA Pair Maximum	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	N/A N/A N/A
6	Core	Maximum number of lock manager locked objects (CIFS and NFS combined)	Node HA Pair Cluster	Yes No No	N/A No N/A	Per Platform HA Pair Maximum	700,000 700,000 700,000	700,000 700,000 700,000	700,000 700,000 700,000	700,000 700,000 700,000	700,000 700,000 700,000	700,000 700,000 700,000
7	NFS	Maximum number of export policies	Node HA Pair Cluster	No No No	N/A Yes Yes	Per Platform HA Pair Maximum	500 500 1,000	500 500 1,000	500 500 1,000	500 500 1,000	500 500 1,000	500 500 1,000
8	NFS	Maximum number of export rules	Node HA Pair Cluster	N/A N/A Yes	N/A N/A N/A	Per Platform HA Pair Maximum	N/A 35,000 70,000	N/A 35,000 70,000	N/A 70,000 140,000	N/A 70,000 140,000	N/A 70,000 140,000	N/A 70,000 140,000
NFS	Maximum NFSv4 access control entries	Node HA Pair Cluster	N/A No N/A	N/A No N/A	N/A	512 N/A N/A	1,024 N/A N/A	1,024 N/A N/A	1,024 N/A N/A	1,024 N/A N/A	1,024 N/A N/A	1,024 N/A N/A
10	NFS	Maximum number of client objects	Node HA Pair Cluster	Yes Yes No	N/A No No	Per Platform HA Pair Maximum	51,200 102,400 51,200	102,400 102,400 102,400	102,400 102,400 102,400	102,400 102,400 102,400	102,400 102,400 102,400	102,400 102,400 102,400
11	NFS	Maximum number of pNFS objects	Node HA Pair Cluster	Yes Yes No	N/A No N/A	Per Platform HA Pair Maximum	N/A 512,000 512,000	N/A 1,024,000 1,024,000	N/A 1,024,000 1,024,000	N/A 1,024,000 1,024,000	N/A 1,024,000 1,024,000	N/A 1,024,000 1,024,000
12	WAFL®	Maximum size of a 64-bit aggregate	Aggregate Node HA Pair Cluster	Yes N/A N/A	No N/A N/A	N/A	324TB N/A N/A	324TB N/A N/A	400TB N/A N/A	400TB N/A N/A	400TB N/A N/A	400TB N/A N/A
13	WAFL	Maximum size of a 64-bit volume	Volume Node HA Pair Cluster	Yes N/A N/A	No N/A N/A	N/A	70TB N/A N/A	100TB N/A N/A	100TB N/A N/A	100TB N/A N/A	100TB N/A N/A	100TB N/A N/A
14	WAFL	Maximum file size in a 64-bit volume	File Node HA Pair Cluster	Yes N/A N/A	Yes N/A N/A	N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A
15	WAFL	Maximum number of volume Snapshot™ copies	Node HA Pair Cluster	No No No	N/A Yes Yes	N/A	255 63,760 127,500	255 63,760 127,500	255 63,760 127,500	255 63,760 127,500	255 63,760 127,500	255 63,760 127,500
16	WAFL	Maximum character length for Snapshot copy names	Snapshot Node HA Pair Cluster	Yes N/A N/A	N/A No N/A	N/A	255 N/A N/A	255 N/A N/A	255 N/A N/A	255 N/A N/A	255 N/A N/A	255 N/A N/A
17	WAFL	Maximum number of hard links	File Node HA Pair Cluster	No N/A N/A	Yes N/A N/A	N/A	100,000 N/A N/A	100,000 N/A N/A	100,000 N/A N/A	100,000 N/A N/A	100,000 N/A N/A	100,000 N/A N/A
18	WAFL	Maximum number of inodes/files	Volume Node HA Pair Cluster	No N/A N/A	Yes N/A N/A	N/A	2,000,000,000 50,000,000,000 50,000,000,000	2,000,000,000 50,000,000,000 50,000,000,000	2,000,000,000 50,000,000,000 50,000,000,000	2,000,000,000 50,000,000,000 50,000,000,000	2,000,000,000 50,000,000,000 50,000,000,000	2,000,000,000 50,000,000,000 50,000,000,000
19	WAFL	Maximum number of dfiles	Volume Node HA Pair Cluster	N/A No No	N/A Yes Yes	Per Platform HA Pair Maximum	4,965 15,000 30,000	4,965 15,000 30,000	4,965 15,000 30,000	4,965 15,000 30,000	4,965 15,000 30,000	4,965 15,000 30,000
20	WAFL	Maximum number of concurrent DataMover™ for Volumes (vol move) operations	Node HA Pair Cluster	N/A No No	N/A Yes Yes	N/A	7 8 16	7 8 16	7 8 16	7 8 16	7 8 16	7 8 16
21	Quality of Service	Maximum number of policy groups	Node HA Pair Cluster	Yes Yes Yes	N/A No Yes	6,000	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	N/A N/A N/A
22	Quality of Service	Maximum number of QoS user workloads	Policy Group Node HA Pair Cluster	Yes N/A Yes	N/A No Yes	6,000	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	N/A N/A N/A
23	Quality of Service	Maximum number of nodes participating in QoS	Node HA Pair Cluster	N/A No N/A	N/A No 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 N/A N/A	N/A N/A N/A	N/A N/A N/A
24	Quality of Service	Maximum number of QoS autovolume workloads	Node HA Pair Cluster	Yes Yes Yes	N/A No N/A	6,000	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	N/A N/A N/A
Quality of Service	Maximum number of QoS system workloads	Node HA Pair Cluster	Yes Yes No	N/A No N/A	2,500	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	N/A N/A N/A	N/A N/A N/A
26	SAN	Maximum number of nodes - SAN	Node HA Pair Cluster	N/A N/A N/A	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 N/A N/A	N/A N/A N/A	N/A N/A N/A
27	SAN	Maximum number of storage virtual machines (SVMs) - SAN	Node HA Pair Cluster	N/A No N/A	N/A Yes N/A	Per Platform HA Pair Maximum	32 32 32	32 32 32	64 64 64	64 64 64	64 64 64	64 64 64
28	SAN	Maximum number of flexible volumes - SAN	Node HA Pair Cluster	Yes Yes N/A	N/A No N/A	Per Platform HA Pair Maximum	125 250 250	125 250 250	250 250 500	250 250 500	250 250 500	250 250 500
29	SAN	Maximum number of LUNs	Node HA Pair Cluster	No No No	N/A Yes No	Per Platform HA Pair Maximum	256 256 512	256 256 512	512 512 1,024	512 512 1,024	512 512 1,024	512 512 1,024
30	SAN	Maximum number of LUN mappings	Node HA Pair Cluster	N/A No N/A	N/A No N/A	Per Platform HA Pair Maximum	256 256 512	256 256 512	512 512 1,024	512 512 1,024	512 512 1,024	512 512 1,024
31	SAN	Maximum LUN size	LUN Node HA Pair Cluster	N/A No N/A	N/A No N/A	N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A	16TB N/A N/A
32	SAN	Maximum FC queue depth available	Port Node HA Pair Cluster	No N/A N/A	Yes N/A N/A	N/A	2,048 N/A N/A	2,048 N/A N/A	2,048 N/A N/A	2,048 N/A N/A	2,048 N/A N/A	2,048 N/A N/A
33	SAN	Maximum ITNs	Port Node HA Pair Cluster	No N/A No	N/A No N/A	Per Platform HA Pair Maximum	256 2,048 16,384	256 2,048 16,384	512 8,192 65,536	512 8,192 65,536	512 8,192 65,536	512 8,192 65,536
34	SAN	Maximum number of LIFs - iSCSI	Port Node HA Pair Cluster	No N/A N/A	Yes N/A N/A	Per Platform HA Pair Maximum	32 32 32	32 32 32	64 64 64	64 64 64	64 64 64	64 64 64
35	SAN	Maximum number of LIFs - FCP	Port Node HA Pair Cluster	No N/A No	N/A No N/A	Per Platform HA Pair Maximum	32 32 32	32 32 32	64 64 64	64 64 64	64 64 64	64 64 64
36	SAN	Maximum number of igroups	Node HA Pair Cluster	N/A No Yes	N/A No No	Per Platform HA Pair Maximum	1,024 2,048 2,048	1,024 2,048 2,048	4,096 8,192 8,192	4,096 8,192 8,192	4,096 8,192 8,192	4,096 8,192 8,192
37	SAN	Maximum number of initiators	igroup Node HA Pair Cluster	No No Yes	N/A No N/A	Per Platform HA Pair Maximum	256 2,048 2,048	256 2,048 2,048	256 4,096 8,192	256 4,096 8,192	256 4,096 8,192	256 4,096 8,192
38	SAN	Maximum number of portsets	Node HA Pair Cluster	No No Yes	N/A No N/A	Per Platform HA Pair Maximum	1,024 2,048 2,048	1,024 2,048 2,048	4,096 8,192 8,192	4,096 8,192 8,192	4,096 8,192 8,192	4,096 8,192 8,192
39	SAN	Maximum number of iSCSI sessions	Node HA Pair Cluster	No No No	N/A Yes No	Per Platform HA Pair Maximum	2,048 2,048 4,096	2,048 2,048 4,096	8,192 8,192 16,384	8,192 8,192 16,384	8,192 8,192 16,384	8,192 8,192 16,384
40	CIFS	Maximum number of connected shares	Node HA Pair Cluster	N/A No N/A	N/A No N/A	N/A	50,000 50,000 50,000	50,000 50,000 50,000	96,000 96,000 96,000	96,000 96,000 96,000	96,000 96,000 96,000	96,000 96,000 96,000
41	CIFS	Maximum number of regular shares (does not apply to dynamic shares created using the home directory feature)	Node HA Pair Cluster	N/A No N/A	N/A No N/A	N/A	1,024 1,024 2,048	1,024 1,024 2,048	4,096 4,096 8,192	4,096 4,096 8,192	4,096 4,096 8,192	4,096 4,096 8,192
42	CIFS	Maximum number of open files	Connection Node HA Pair Cluster	Yes No No	N/A Yes Yes	N/A	32,768 350,000 350,000	32,768 350,000 350,000	32,768 350,000 350,000	32,768 350,000 350,000	32,768 350,000 350,000	32,768 350,000 350,000
43	CIFS	Maximum number of local users	Node HA Pair Cluster	N/A No No	N/A No N/A	500 (per site)	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	N/A N/A N/A
44	CIFS	Maximum number of local groups	Node HA Pair Cluster	N/A No No	N/A No N/A	500 (per site)	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	N/A N/A N/A
45	CIFS	Maximum number of local group members	Node HA Pair Cluster	N/A No No	N/A No N/A	10000 (per site)	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	N/A N/A N/A
46	Data Protection	Maximum number of NDMP sessions	Node HA Pair Cluster	N/A Yes Yes	N/A No No	N/A	32 36 36	32 36 36	32 36 36	32 36 36	32 36 36	32 36 36
47	Data Protection	Maximum number of data protection (DP) mirrors and/or SnapVault® relationships	Volume Node HA Pair Cluster	Yes No No	N/A No N/A	Per Platform HA Pair Maximum	1 125 250	1 125 250	1 250 500	1 250 500	1 250 500	1 250 500
48	Data Protection	Maximum number of local sharing (LS) mirrors	Volume Node HA Pair Cluster	N/A No N/A	N/A No N/A	2 for each NAS SVM	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	N/A N/A N/A
49	Data Protection	Maximum number of concurrent SnapMirror® or SnapVault transfers (additional transfers can be scheduled but will be queued)	Node HA Pair Cluster	Yes Yes No	N/A No N/A	N/A	300 300 300	300 300 300	300 300 300	300 300 300	300 300 300	300 300 300
50	Data Protection	Maximum fan-out from source for DP mirror	Node HA Pair Cluster	N/A No N/A	N/A No N/A	N/A	8 N/A N/A	8 N/A N/A	8 N/A N/A	8 N/A N/A	8 N/A N/A	8 N/A N/A
51	Data Protection	Maximum fan-out from source for LS mirror	Node HA Pair Cluster	N/A No N/A	N/A No N/A	2 for each NAS SVM	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	N/A N/A N/A
52	Data Protection	Maximum number of clusters that can be peered	Node HA Pair Cluster	N/A No N/A	N/A No N/A	8 (per site)	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	N/A N/A N/A

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HOW TO READ THE MAXIMUM VALUES TABLE

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	FA S2220	FA S2240	FA S3160
Supported Data ONTAP® Versions >>>								8.2, 8.2.1	8.2, 8.2.1	8.2, 8.2.1
Core	Maximum number of nodes - NAS	N/A	N/A	N/A	N/A	N/A	4	N/A	N/A	N/A
		Node	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
		Cluster	No	N/A	No	Yes		N/A	N/A	N/A

The feature or functional area of clustered Data ONTAP related to the maximum value

The level of scope in which the maximum value applies within the cluster

Applies to HA pair and cluster scope and indicates "yes" if the node maximum value doubles in failover (HA pair scope) or if the node limits scales by the maximum number of nodes in the cluster

Indicates which clustered Data ONTAP versions support the platform and maximum values indicated for the column

Platform maximum values listed by platform model

A generic description of the maximum value that, combined with each level of "scope," provides a complete context to the maximum value

Indicates if the maximum value is code enforced by clustered Data ONTAP

Indicates whether an equivalent or related maximum value is present in 7-Mode that should be considered when planning a transition to clustered Data ONTAP

The cluster maximum value for the indicated size of the cluster for this document (small - 4 nodes, medium - 8 nodes, or large - 24 nodes) that applies to both homogenous and heterogeneous clusters

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

HOW SCOPE APPLIES TO CLUSTER AND PLATFORM MAXIMUM VALUES

Category	Description	Scope	Code Enforced	Scales by Scope	7-Mode	Platform Agnostic	Cluster Maximum	FA S6080
Supported Data ONTAP® Versions >>>								Platform Maximum
		N/A	N/A	N/A	N/A	N/A	8.2, 8.2.1	N/A
WAFL	Maximum number of FlexCache® volumes	Node	Yes	N/A	Yes	Yes	100	N/A
		HA Pair	Yes	Yes	Yes	Yes	200	N/A
		Cluster	Yes	Yes	No	Yes	N/A	N/A
WAFL	Maximum number of concurrent DataMotion™ for Volumes (vol move) operations	Node	No	N/A	Yes	Yes	25	N/A
		HA Pair	No	No	Yes	Yes	25	N/A
		Cluster	No	No	No	Yes	25	N/A

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

The cluster row of scope, along with the code enforced, scales by scope, 7-Mode, and platform-agnostic columns in the same row, only apply to the cluster maximum column

"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

Category	Description	Scope	Code Enforced	Scales by Scope	7-Mode	Platform Agnostic	Cluster Maximum	FA S6080
Supported Data ONTAP® Versions >>>								Platform Maximum
		N/A	N/A	N/A	N/A	N/A	8.2, 8.2.1	N/A
WAFL	Maximum number of FlexCache® volumes	Node	Yes	N/A	Yes	Yes	100	N/A
		HA Pair	Yes	Yes	Yes	Yes	200	N/A
		Cluster	Yes	Yes	No	Yes	N/A	N/A
WAFL	Maximum number of concurrent DataMotion™ for Volumes (vol move) operations	Node	No	N/A	Yes	Yes	25	N/A
		HA Pair	No	No	Yes	Yes	25	N/A
		Cluster	No	No	No	Yes	25	N/A

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 failover

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

Category	Description	Scope	Code Enforced	Scales by Scope	7-Mode	Platform Agnostic	Cluster Maximum	FA S6080
Supported Data ONTAP® Versions >>>								Platform Maximum
		N/A	N/A	N/A	N/A	N/A	8.2, 8.2.1	N/A
WAFL	Maximum number of FlexCache® volumes	Node	Yes	N/A	Yes	Yes	100	N/A
		HA Pair	Yes	Yes	Yes	Yes	200	N/A
		Cluster	Yes	Yes	No	Yes	N/A	N/A
WAFL	Maximum number of concurrent DataMotion™ for Volumes (vol move) operations	Node	No	N/A	Yes	Yes	25	N/A
		HA Pair	No	No	Yes	Yes	25	N/A
		Cluster	No	No	No	Yes	25	N/A

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

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 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.

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.

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.

ONTAP Platform Mixing Rules
https://library.netapp.com/ecm/ecm_get_file/ECMP1644424

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 ONTAP maximum values information into additional feature and functional areas. Additionally, existing maximum values will be revised and expanded.

