

NetApp Confidential - Internal Use Only															
ONTAP Select 9.1 Maximum Configurations Guide															
4 Node Cluster (Single Node Cluster Use Node Scope)															
Category	Description	Scope	Code Enforced	Scales by Scope	Platform Agnostic	Cluster Maximum	Primary Platforms			Primary Platforms			Primary Platforms		
							ONTAP Select			ONTAP Select Premium			ONTAP Select Premium		
							Memory 16GB/node	Platform Maximum	Platform Maximum	Memory 16GB/node	Platform Maximum	Platform Maximum	Memory 64GB/node	Platform Maximum	Platform Maximum
Supported Clustered Data ONTAP® 9.0 Versions >=							9	9.1	9.1						
1	Core	Maximum number of nodes - NAS	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				
2	Core	Maximum number of storage virtual machines (SVMs) - NAS	Cluster	N/A	N/A	N/A	512	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				
3	Core	Maximum number of LIFs - NAS	Cluster	No	Yes	N/A	512	N/A	N/A	N/A					
			Node	Yes	No	Yes		256	256	512					
			HA Pair	No	Yes	256		256	512						
4	Core	Maximum number of connections - NAS	Cluster	No	Yes	N/A	N/A	N/A	N/A	N/A					
			Node	Yes	No	Yes		10,000	10,000	100,000					
			HA Pair	No	No	No		10,000	10,000	100,000					
5	Core	Maximum number of flexible volumes - NAS	Cluster	N/A	N/A	N/A	2,000	N/A	N/A	N/A					
			Node	Yes	N/A	No		500	500	500					
			HA Pair	Yes	Yes	N/A		1,000	1,000	1,000					
5	Core	Maximum number of FlexGroups - NAS	Cluster	Yes	Yes	N/A	0	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				
6	Core	Maximum number of lock manager locked objects (CIFS and NFS combined)	Cluster	Yes	Yes	N/A	1,048,576	N/A	N/A	N/A					
			Node	Yes	N/A	No		524,288	524,288	1,200,000					
			HA Pair	Yes	No	N/A		524,288	524,288	1,200,000					
7	NFS	Maximum number of export policies	N/A	N/A	N/A	N/A	4,000	N/A	N/A	N/A					
			Node	No	N/A	Yes		1,000	1,000	1,000					
			HA Pair	No	Yes	2,000		2,000	2,000						
8	NFS	Maximum number of export rules	Cluster	N/A	N/A	N/A	70,000	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				
9	NFS	Maximum NFSv4 access control entries	Cluster	No	N/A	N/A	N/A	N/A	N/A	N/A					
			Node	N/A	N/A	N/A		1,024	1,024	1,024					
			HA Pair	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
10	NFS	Maximum number of client objects	N/A	N/A	N/A	N/A	24,456	N/A	N/A	N/A					
			Node	Yes	N/A	No		12,228	12,228	100,000					
			HA Pair	Yes	No	No		12,228	12,228	100,000					
11	NFS	Maximum number of pNFS objects	Cluster	Yes	N/A	N/A	1,048,576	N/A	N/A	N/A					
			Node	Yes	N/A	N/A		524,288	524,288	1,024,000					
			HA Pair	Yes	No	No		524,288	524,288	1,024,000					
12	WAFL®	Maximum size of a 64-bit aggregate	Aggregate	Yes	N/A	No	N/A	100TB	100TB	100TB					
			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				
13	WAFL	Maximum size of a 64-bit volume	Cluster	Yes	N/A	N/A	N/A	60TB	60TB	60TB					
			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				
14	WAFL	Maximum file size in a 64-bit volume	File	Yes	N/A	Yes	N/A	16TB	16TB	16TB					
			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				
15	WAFL	Maximum number of volume Snapshot™ copies	Cluster	N/A	N/A	N/A	N/A	255	255	255					
			Node	Yes	N/A	No		90,000	90,000	90,000					
			HA Pair	Yes	Yes	No		100,000	100,000	100,000					
16	WAFL	Maximum character length for Snapshot copy names	Snapshot	Yes	N/A	Yes	N/A	255	255	255					
			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				
17	WAFL	Maximum number of hard links	File	Yes	N/A	Yes	N/A	100,000	100,000	100,000					
			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				
18	WAFL	Maximum number of inodes/files	Cluster	N/A	N/A	N/A	N/A	2,000,000,000	2,000,000,000	2,000,000,000					
			Node	No	N/A	Yes		50,000,000,000	50,000,000,000	50,000,000,000					
			HA Pair	No	No	Yes		50,000,000,000	50,000,000,000	50,000,000,000					
19	WAFL	Maximum number of qtree	Cluster	N/A	N/A	N/A	400,000	4,995	4,995	4,995					
			Node	No	N/A	Yes		100,000	100,000	100,000					
			HA Pair	No	No	Yes		200,000	200,000	200,000					
20	WAFL	Maximum number of concurrent DataMotion™ for Volumes (vol move) operations	Cluster	N/A	N/A	N/A	N/A	16	8	8					
			Node	Yes	N/A	Yes		16	8	8					
			HA Pair	Yes	No	Yes		16	16	16					
21	Quality of Service	Maximum number of policy groups	Cluster	N/A	N/A	N/A	12,000	N/A	N/A	N/A					
			Node	Yes	N/A	Yes		3,500	3,500	3,500					
			HA Pair	Yes	No	Yes		3,500	3,500	3,500					
22	Quality of Service	Maximum (QoS) number of storage objects (contained in QoS policy groups)	Policy Group	Yes	N/A	Yes	12,000	10,000	10,000	10,000					
			Node	Yes	No	Yes		10,000	10,000	10,000					
			HA Pair	Yes	No	N/A		10,000	10,000	10,000					
23	Quality of Service	Maximum number of nodes participating in QoS	Cluster	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				
24	Quality of Service	Maximum number of QoS statistics workloads (user workloads)	Cluster	N/A	N/A	N/A	12,000	N/A	N/A	N/A					
			Node	Yes	N/A	Yes		5,000	5,000	5,000					
			HA Pair	Yes	No	Yes		5,000	5,000	5,000					
25	Quality of Service	Maximum number of QoS statistics workloads (user, autovolume, and system workloads)	Cluster	Yes	N/A	N/A	5,000	N/A	N/A	N/A					
			Node	Yes	N/A	Yes		10,000	10,000	10,000					
			HA Pair	Yes	Yes	Yes		10,000	10,000	10,000					
26	SAN	Maximum number of nodes - SAN	Cluster	Yes	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				
27	SAN	Maximum number of storage virtual machines (SVMs) - SAN	Cluster	N/A	N/A	N/A	500	N/A	N/A	N/A					
			Node	No	N/A	No		125	125	125					
			HA Pair	No	Yes	N/A		250	250	250					
28	SAN	Maximum number of flexible volumes - SAN	Cluster	No	Yes	N/A	2,000	N/A	N/A	N/A					
			Node	Yes	N/A	No		500	500	500					
			HA Pair	Yes	No	No		1,000	1,000	1,000					
29	SAN	Maximum number of LUNs	Cluster	Yes	Yes	N/A	8,192	512	512	512					
			Node	No	N/A	No		2,048	2,048	2,048					
			HA Pair	No	Yes	No		4,096	4,096	4,096					
30	SAN	Maximum number of LUN mappings	Cluster	N/A	N/A	N/A	8,192	N/A	N/A	N/A					
			Node	No	N/A	No		2,048	2,048	8,192					
			HA Pair	No	Yes	No		4,096	4,096	16,384					
31	SAN	Maximum LUN size	LUN	No	N/A	Yes	N/A	16TB	16TB	16TB					
			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				
32	SAN	Maximum FC queue depth available	Port	No	N/A	Yes	N/A	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				
33	SAN	Maximum ITNs	Cluster	No	N/A	Yes	8,192	N/A	N/A	N/A					
			Port	No	N/A	Yes		N/A	N/A	N/A	N/A				
			Node	No	N/A	No		N/A	N/A	N/A	N/A				
34	SAN	Maximum number of LIFs - iSCSI	Cluster	No	Yes	N/A	1,024	N/A	N/A	N/A					
			Node	No	Yes	N/A		32	32	32					
			HA Pair	No	Yes	No		256	256	512					
35	SAN	Maximum number of LIFs - FCP	Portset	No	N/A	Yes	N/A	N/A	N/A	N/A					
			Node	No	N/A	No		N/A	N/A	N/A	N/A				
			HA Pair	No	Yes	No		N/A	N/A	N/A	N/A				
36	SAN	Maximum number of groups	Cluster	N/A	Yes	N/A	4,096	N/A	N/A	N/A					
			Node	No	N/A	No		512	512	2,048					
			HA Pair	No	Yes	No		1,024	1,024	4,096					
37	SAN	Maximum number of initiators	igroup	No	N/A	Yes	4,096	256	256	256					
			Node	No	N/A	No		1,024	1,024	2,048					
			HA Pair	No	Yes	No		2,048	2,048	4,096					
38	SAN	Maximum number of portsets	Cluster	N/A	N/A	N/A	4,096	N/A	N/A	N/A					
			Node	No	N/A	No		512	512	2,048					
			HA Pair	No	Yes	No		1,024	1,024	4,096					
39	SAN	Maximum number of iSCSI sessions	Cluster	N/A	N/A	N/A	8,192	N/A	N/A	N/A					
			Node	N/A	N/A	No		2,048	2,048	4,096					
			HA Pair	No	Yes	No		4,096	4,096	8,192					
40	CIFS	Maximum number of connected shares	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
			Node	No	N/A	Yes		400,000	400,000	1,000,000					
			HA Pair	No	No	Yes		400,000	400,000	1,000,000					
41	CIFS	Maximum number of regular shares (does not apply to dynamic shares created using the home directory feature)	Cluster	N/A	N/A	N/A	40,000	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				
42	CIFS	Maximum number of open files	Cluster	No	Yes	N/A	N/A	60,000	60,000	300,000					
			Node	Yes	N/A	Yes		65,536	65,536	1,200,000					
			HA Pair	No	No	Yes		300,000	300,000	1,200,000					
43	CIFS	Maximum number of local users	Cluster	N/A	N/A	N/A	1,000	N/A	N/A	N/A					
			Node	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
			HA Pair	No	No	N/A		5,000	5,000	35,000					
44	CIFS	Maximum number of local groups	Cluster	N/A	N/A	N/A	1,000	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				
45	CIFS	Maximum number of local group members	Cluster	N/A	N/A	N/A	20,000	10,000	10,000	320,000					
			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				
46	Data Protection	Maximum number of NDMP sessions	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
			Node	Yes	N/A	No		20	20	36					
			HA Pair	Yes	No	No		20	20	36					
47	Data Protection	Maximum number of data protection (DP) mirrors and/or SnapVault® relationships	Volume	Yes	N/A	Yes	cDOT 9.0 = 3,000	1	1	1					
			Node	No	N/A	No		500	500	500					
			HA Pair	No	Yes	No		1,000	1,000	1,000					
48	Data Protection	Maximum number of load sharing (LS) mirrors	Cluster	N/A	N/A	N/A	2 for each NAS SVM	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				
49	Data Protection	Maximum number of concurrent SnapMirror® or SnapVault transfers (additional transfers can be scheduled but will be queued)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
			Node	Yes	N/A	No		100	100	100					
			HA Pair	Yes	No	N/A		200	200	200					
50	Data Protection	Maximum fan-out from source for DP mirror	Cluster	N/A	N/A	N/A	N/A	N/A	N/A	N/A					
			Node	No	N/A	Yes		8	8	8					
			HA Pair	N/A	N/A	N/A		N/A	N/A	N/A	N/A				
51	Data Protection	Maximum fan-out from source for LS mirror	Cluster	N/A	N/A	N/A	2 for each NAS SVM	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				
52	Data Protection	Maximum number of clusters that can be peered	N/A	N/A	N/A	N/A	255	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				

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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	2400	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.

