MetroCluster release notes

ONTAP MetroCluster

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MetroCluster release notes

What's new in MetroCluster features

Each release of the ONTAP 9 data management software delivers new and enhanced features that improve the capabilities, manageability, and performance of ONTAP MetroCluster configurations.

For details about known issues, limitations, and upgrade cautions affecting ONTAP MetroCluster configurations, refer to the ONTAP 9 Release Notes. You must sign in with your NetApp account or create an account to access the Release Notes.

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
SnapMirror cloud support for MetroCluster FlexGroup volumes	SnapMirror cloud supports backup and restore operations for FlexGroup volumes in MetroCluster configurations. Back up data to the cloud using ONTAP SnapMirror	ONTAP 9.18.1GA
New supported upgrade combinations for MetroCluster IP controller upgrades using `system controller replace` commands	Adds support for upgrading an AFF A70 to an AFF A90 system or a FAS70 to a FAS90 system using `system controller replace` commands in a MetroCluster IP configuration. Upgrade controllers in four-node MetroCluster IP using switchover and switchback with "system controller replace" commands (ONTAP 9.13.1 and later)	ONTAP 9.18.1GA
Flash Cache support for FAS50 systems in MetroCluster IP configurations	Flash Cache is supported on FAS50 systems in MetroCluster IP configurations. Disk assignment on FAS50 systems with Flash Cache	ONTAP 9.18.1
MetroCluster IP support for end-to-end encryption	End-to-end encryption is supported on the following systems to encrypt back-end traffic, such as NVlog and storage replication data, between the sites in a MetroCluster IP configuration. • AFF A800, AFF C800 • AFF A20, AFF A30, AFF C30, AFF A50, AFF C60 • AFF A70, AFF A90, AFF A1K, AFF C80 • FAS50, FAS70, FAS90 Configure end-to-end encryption in a MetroCluster IP configuration	ONTAP 9.17.1

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
Limit changes for MetroCluster IP configurations	ONTAP 9.17.1 includes the following limit updates for four-node MetroCluster IP configurations: • AFF C800, AFF A800, AFF A900, AFF A90, and AFF A1K systems have the following updated limits: ◦ FlexVol volume limits per node: 1250 ◦ SVM limits: 64 SVMs per cluster ◦ LIF count: 256 LIFs per cluster • AFF A400, AFF C400, ASA A400, ASA C400, AFF C80, AFF A70, and AFF A50 systems have the following updated limits: ◦ FlexVol volume limits per aggregate (single or multiple): 625 ◦ FlexVol volume limits per node: 1250 ◦ FlexVol volume limits per high-availability (HA) pair: 2500 ◦ FlexVol volume limits per cluster: 5000 ◦ SVM limits: 64 SVMs per cluster ◦ LIF count: 256 LIFs per cluster Refer to the Hardware Universe for more information.	ONTAP 9.17.1
FibreBridge firmware update using credentials	You can update the firmware on FibreBridge bridges using credentials if they are required by the server to download the firmware package. Update firmware on a FibreBridge bridge	ONTAP 9.16.1
SVM data mobility support for migrating MetroCluster configurations	ONTAP supports the following MetroCluster SVM migrations: • Migrating an SVM between a non-MetroCluster HA pair and a MetroCluster IP configuration • Migrating an SVM between two MetroCluster IP configurations • Migrating an SVM between a MetroCluster FC configuration and a MetroCluster IP configuration SVM data mobility	ONTAP 9.16.1
MD5 authentication support for BGP peer groups	ONTAP supports MD5 authentication on BGP peer groups to protect BGP sessions. When MD5 is enabled, BGP sessions can only be established and processed among authorized peers, preventing potential disruptions of the session by an unauthorized actor. Configure virtual IP (VIP) LIFs	ONTAP 9.16.1

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
MetroCluster IP support for end-to-end encryption	End-to-end encryption is supported on AFF A400, AFF C400, FAS8300, and FAS8700 systems to encrypt back-end traffic, such as NVlog and storage replication data, between the sites in a MetroCluster IP configuration. Configure end-to-end encryption in a MetroCluster IP configuration	ONTAP 9.15.1
Volume limit increase for four-node MetroCluster IP configurations on AFF A800 and AFF C800 systems	In four-node MetroCluster IP configurations, the following volume limits for AFF A800 and AFF C800 systems have increased: • The maximum number of FlexVol volumes per aggregate increased from 200 to 625. • The maximum number of FlexVol volumes per node increased from 800 to 1250. • The maximum number of FlexVol volumes per HA pair increased from 1600 to 2500.	ONTAP 9.15.1
MetroCluster IP support for NVMe	The NVMe/TCP front-end host protocol is supported on four-node MetroCluster IP configurations. SAN configurations in a MetroCluster environment	ONTAP 9.15.1
Volume limit increase for four-node MetroCluster IP configurations on AFF A900 systems	In four-node MetroCluster IP configurations, the following volume limits for AFF A900 systems have increased: • The maximum number of FlexVol volumes per aggregate increased from 200 to 625. • The maximum number of FlexVol volumes per node increased from 800 to 1250. • The maximum number of FlexVol volumes per HA pair increased from 1600 to 2500.	ONTAP 9.14.1
S3 object storage support on mirrored and unmirrored aggregates	You can enable an S3 object storage server on an SVM in a mirrored or unmirrored aggregate in MetroCluster IP and FC configurations. S3 support with MetroCluster	ONTAP 9.14.1
Support for provisioning an S3 bucket on mirrored and unmirrored aggregates in a MetroCluster cluster	You can create a bucket on a mirrored or unmirrored aggregate in MetroCluster configurations. Create an ONTAP S3 bucket on a mirrored or unmirrored aggregate in a MetroCluster configuration	ONTAP 9.14.1

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
Transition from MetroCluster FC to MetroCluster IP using a shared switch for MetroCluster IP and Ethernet attached storage	You can transition nondisruptively from a MetroCluster FC to a MetroCluster IP configuration using a shared storage switch. Transition nondisruptively from a MetroCluster FC to a MetroCluster IP configuration (ONTAP 9.8 and later)	ONTAP 9.13.1
Nondisruptive transitions from an eight-node MetroCluster FC configuration to a MetroCluster IP configuration	You can nondisruptively transition workloads and data from an existing eight-node MetroCluster FC configuration to a new MetroCluster IP configuration. Transition nondisruptively from a MetroCluster FC to a MetroCluster IP configuration	ONTAP 9.13.1
Four-node MetroCluster IP configuration upgrades using switchover and switchback	You can upgrade controllers in a four-node MetroCluster IP configuration using switchover and switchback with `system controller replace` commands. Upgrade controllers in a four node MetroCluster IP configuration	ONTAP 9.13.1
Mediator-assisted automatic unplanned switchover (MAUSO) is triggered for an environmental shutdown	If one site shuts down gracefully due to an environmental shutdown, MAUSO is triggered. How the ONTAP Mediator supports automatic unplanned switchover	ONTAP 9.13.1
Eight-node MetroCluster IP configurations support	You can upgrade the controllers and storage in an eight-node MetroCluster IP configuration by expanding the configuration to become a temporary twelve-node configuration and then removing the old DR groups. Refresh a four-node MetroCluster IP configuration	ONTAP 9.13.1
MetroCluster IP configuration conversion to a shared storage MetroCluster switch configuration	You can convert a MetroCluster IP configuration to a shared storage MetroCluster switch configuration. Replace an IP switch	ONTAP 9.13.1

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
MetroCluster automatic forced switchover feature in a MetroCluster IP configuration	You can enable the MetroCluster automatic forced switchover feature in a MetroCluster IP configuration. This feature is an extension of the Mediator-assisted unplanned switchover (MAUSO) feature. Automatic switchover limitations	ONTAP 9.12.1
S3 on an SVM on an unmirrored aggregate in a MetroCluster IP configuration	You can enable an ONTAP Simple Storage Service (S3) object storage server on an SVM on an unmirrored aggregate in a MetroCluster IP configuration. S3 support with MetroCluster	ONTAP 9.12.1
MetroCluster IP support for NVMe	The NVMe/FC protocol is supported on four-node MetroCluster IP configurations. SAN configurations in a MetroCluster environment	ONTAP 9.12.1
IPsec support for front-end host protocol in MetroCluster IP and MetroCluster fabric-attached configurations	IPsec support for front-end host protocol (such as NFS and iSCSI) is available in MetroCluster IP and MetroCluster fabric-attached configurations. Configure IP security (IPsec) over wire encryption	ONTAP 9.12.1
Transition from a MetroCluster FC configuration to an AFF A250 or FAS500f MetroCluster IP configuration	You can transition from a MetroCluster FC configuration to an AFF A250 or FAS500f MetroCluster IP configuration. Move the local cluster connections	ONTAP 9.11.1
Consistency groups	Consistency groups are supported in MetroCluster configurations. Consistency groups in MetroCluster configurations	ONTAP 9.11.1
Simplified controller upgrade of nodes in a MetroCluster FC configuration	The upgrade procedure for the upgrade process using switchover and switchback has been simplified. Upgrade controllers in a MetroCluster FC configuration using switchover and switchback	ONTAP 9.10.1
IP support for shared link at layer 3	MetroCluster IP configurations can be implemented with IP-routed (layer 3) back-end connections. Considerations for layer 3 wide-area networks	ONTAP 9.9.1

Supported features in MetroCluster configuration	Description and where to learn more	Available beginning
Support for eight-node MetroCluster configurations	Permanent eight-node clusters are supported in IP and Fabric-attached MetroCluster configurations. Install and cable MetroCluster components	ONTAP 9.9.1

What's new in MetroCluster IP platform and switch support

Learn what's new in MetroCluster IP platform and switch support.

Platform support

Supported platforms in MetroCluster IP configurations	Available beginning
FAS50	ONTAP 9.16.1GA
AFF A20, AFF A30, AFF A50, AFF C30, AFF C60, AFF C80	ONTAP 9.16.1
FAS70, FAS90	ONTAP 9.15.1P3
AFF A70, AFF A90, AFF A1K	ONTAP 9.15.1
ASA A150, ASA A250, ASA A400, ASA A800, ASA A900, ASA C250, ASA C400, ASA C800	ONTAP 9.14.1
AFF A150	ONTAP 9.13.1 ONTAP 9.12.1P1 ONTAP 9.11.1P8 ONTAP 9.10.1P12
AFF C250, AFF C400, AFF C800	ONTAP 9.12.1P1 ONTAP 9.13.1 GA
AFF A900	ONTAP 9.10.1
AFF A250	ONTAP 9.8
FAS500f	ONTAP 9.8

Supported platforms in MetroCluster IP configurations	Available beginning
ASA AFF A220, ASA AFF A250, ASA AFF A400, ASA AFF A700, ASA AFF A800	ONTAP 9.7
AFF A320	ONTAP 9.6P3
AFF A220, FAS2750	ONTAP 9.6
AFF A300, FAS8200	ONTAP 9.5

Switch support

Broadcom IP switches	Available beginning
BES-53248	ONTAP 9.6

Cisco IP switches	Available beginning
9336C-FX2 (12-port)	ONTAP 9.14.1
9336C-FX2 (36-port)	ONTAP 9.8
3132Q-V	ONTAP 9.6
3232C	ONTAP 9.6

NVIDIA switches	Available beginning
Multiple MetroCluster IP configurations on the same NVIDIA SN2100 switch	ONTAP 9.14.1
SN2100	ONTAP 9.12.1

What’s new in MetroCluster FC platform and switch support

Learn what’s new in MetroCluster FC platform and switch support.

Platform support

Supported platforms in MetroCluster FC configurations	Available beginning
AFF A900	ONTAP 9.10.1

Supported platforms in MetroCluster FC configurations	Available beginning
ASA AFF A700 and ASA AFF A400	ONTAP 9.7P5
AFF A400 and FAS8300	ONTAP 9.7
AFF A300 and FAS8200	ONTAP 9.5

Switch support

Brocade FC switches	Available beginning
G710	ONTAP 9.17.1
G720	ONTAP 9.8
G620-1, G630-1	ONTAP 9.8
G630	ONTAP 9.6

What's new in ONTAP Mediator support for MetroCluster IP

Learn about the new MetroCluster IP features and enhancements for ONTAP Mediator support.

For details on the features and enhancements for each release of ONTAP Mediator, refer to What's new in ONTAP Mediator.

ONTAP Mediator capability	Available beginning
IPv6 is supported for ONTAP Mediator 1.11 or later in MetroCluster IP configurations. Set up the ONTAP Mediator for a MetroCluster IP configuration	ONTAP 9.18.1
ONTAP Mediator 1.11 adds support for managing up to ten MetroCluster IP configurations using a single ONTAP Mediator instance. Prepare to install the ONTAP Mediator in a MetroCluster IP configuration	ONTAP 9.18.1
Mediator-assisted automatic unplanned switchover (MAUSO) is supported in the case of an environmental shutdown. If one site shuts down gracefully due to an environmental shutdown, MAUSO is triggered. How ONTAP Mediator supports automatic unplanned switchover	ONTAP 9.13.1

ONTAP Mediator capability	Available beginning
Initial support for ONTAP Mediator in MetroCluster IP configurations	ONTAP 9.7

What's new in MetroCluster Tiebreaker support

Enhancements to the MetroCluster Tiebreaker software are provided with each release. Here's what's new in recent releases of MetroCluster Tiebreaker.

Enhancements

ONTAP Tiebreaker version	Enhancements
1.7	• Bug fixes • Adds support for switchover simulation using the CLI
1.6P1	• Supporting libraries update • Security enhancements
1.6	• Improved ease of installation • Supporting libraries update • Security enhancements
1.5	• Supporting libraries update • Security enhancements
1.4	• Supporting libraries update

OS support matrix

The following table indicates the supported operating systems for each version of Tiebreaker.

OS for Tiebreaker	1.7	1.6P1	1.6	1.5	1.4
Rocky Linux 9.4	Yes	Yes	No	No	No
Rocky Linux 9.0	No	No	Yes	No	No
Rocky Linux 8.10	Yes	Yes	No	No	No

Red Hat Enterprise Linux (RHEL) 9.6	Yes	Yes	No	No	No
RHEL 9.5	Yes	Yes	No	No	No
RHEL 9.4	Yes	Yes	No	No	No
RHEL 9.3	No	No	No	No	No
RHEL 9.2	Yes	Yes	Yes	No	No
RHEL 9.1	No	No	Yes	No	No
RHEL 9.0	No	No	Yes	No	No
RHEL 8.11 - 9.0	No	No	Yes	No	No
RHEL 8.10	Yes	Yes	Yes	No	No
RHEL 8.9	No	No	Yes	No	No
RHEL 8.8	Yes	Yes	Yes	No	No
RHEL 8.1 - 8.7	No	No	Yes	Yes	Yes
RHEL 7 - 7.9	No	No	No	No	Yes
CentOS 7 - 7.9	No	No	No	No	Yes

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