



# Differences between the ONTAP MetroCluster configurations

## ONTAP MetroCluster

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# Differences between the ONTAP MetroCluster configurations

# Differences between ONTAP MetroCluster configurations

The various MetroCluster configurations have key differences in the required components.

In all configurations, each of the two MetroCluster sites are configured as an ONTAP cluster. In a two-node MetroCluster configuration, each node is configured as a single-node cluster.

Feature	IP configurations	Fabric attached configurations		Stretch configurations	
		Four- or eight-node	Two-node	Two-node bridge-attached	Two-node direct-attached
Number of controllers	Four or eight*	Four or eight	Two	Two	Two
Uses an FC switch storage fabric	No	Yes	Yes	No	No
Uses an IP switch storage fabric	Yes	No	No	No	No
Uses FC-to-SAS bridges	No	Yes	Yes	Yes	No
Uses direct-attached SAS storage	Yes (local attached only)	No	No	No	Yes
Supports ADP	Yes (starting in ONTAP 9.4)	No	No	No	No
Supports local HA	Yes	Yes	No	No	No
Supports ONTAP AUSO	No	Yes	Yes	Yes	Yes
Supports unmirrored aggregates	Yes (starting in ONTAP 9.8)	Yes	Yes	Yes	Yes
Supports array LUNs	No	Yes	Yes	Yes	Yes

Supports ONTAP Mediator	Yes (starting in ONTAP 9.7)	No	No	No	No
Supports MetroCluster Tiebreaker	Yes (not in combination with ONTAP Mediator)	Yes	Yes	Yes	Yes
Supports <a href="#">All SAN Arrays</a>	Yes	Yes	Yes	Yes	Yes

### Important

Notice the following considerations for eight-node MetroCluster IP configurations:

- Eight-node configurations are supported starting in ONTAP 9.9.1.
- Only NetApp-validated MetroCluster switches (ordered from NetApp) are supported.
- Configurations using IP-routed (layer 3) backend connections are not supported.
- Configurations using shared private layer 2 networks are not supported.
- Configurations using a Cisco 9336C-FX2 shared switch are not supported.

## Support for All SAN Array systems in MetroCluster configurations

Some of the All SAN Arrays (ASAs) are supported in MetroCluster configurations. In the MetroCluster documentation, the information for AFF models applies to the corresponding ASA system. For example, all cabling and other information for the AFF A400 system also applies to the ASA AFF A400 system.

Supported platform configurations are listed in the [NetApp Hardware Universe](#).

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