# Dell EMC PowerMax vs. NetApp AFF

## Dell EMC PowerMax

- **Delivers persistent SCM**
  - Persistent SCM tier, with intelligent tiering.

- **Cloud Mobility**
  - Natively moves block data snapshots to the cloud
  - PowerMax can snap block data directly to public clouds or to Dell EMC ECS™ object stores.

- **Intelligent array-based tiering**
  - Automated data placement based on machine learning (ML) on array.

- **Shared everything architecture**
  - Incoming data is automatically load balanced across the cluster and shares a global R/W cache pool.

- **Global deduplication**
  - Dedupes data across all resources globally for extreme efficiency.

- **Massive platform support**
  - Supports open systems, mainframe, block and file.\(^1\)

## NetApp AFF

- **No storage side SCM**
  - No announced plan to support SCM drives.

- **No ability to move block data to the cloud with snapshots alone**
  - NetApp cannot snap directly to the cloud.

- **No intelligent array-based tiering**
  - No support for automated, ML based performance tiering or data placement on array.

- **Shared nothing architecture**
  - Incoming data is owned by a single node, it can only utilize the R/W cache of that node and is not automatically load balanced across the cluster.

- **Aggregate level deduplication**
  - Aggregate level deduplication yields less efficient data reduction.

- **Less platform support**
  - Does not support mainframe environments.

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\(^1\)Mainframe support available on PowerMax 8000 only.

Comparison based on publicly available information, May 2021.

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