Dell PowerFlex is AWS Outposts Ready

More choices for your data and performance intensive applications

AGILITY

- Deploy, configure, monitor, and manage enhanced AWS Outposts on-premises block storage easily with consistent tools across deployments

- Extensive automation that simplifies IT Operations and Life Cycle Management tasks

- Seamless data mobility moves data from cloud to ground and back as needed

PERFORMANCE

- Independently scale compute and storage instances for 12 times more IOPS performance* and low latency

- Flexible deployments optimize performance and cost to meet workload requirements

- Ensure availability under failure conditions at drive, instance, and node level

CONSOLIDATION

- Consolidate diverse workloads onto one unified platform to simplify observability, administration, and provisioning

- Leverage native replication to move and protect your data anywhere

Many IT organizations have mission-critical workloads that require enterprise-class block storage for their data centers, co-location facilities or at the edge.

Amazon Web Services (AWS) customers also have on-prem requirements and choose AWS Outposts when they need low-latency access to on-premises systems, local data processing, data residency and/or application migration with local system interdependencies using AWS services.

Dell PowerFlex's scale-out software-defined architecture now offers two deployment options for AWS Outposts: a physical (storage adjacent) option and a software-only (virtual) deployment. Fully tested and supported, Dell has received AWS Outposts Ready Partner designation and is part of the AWS Service Ready Program.

These deployment options enhance AWS Outposts-only implementations by delivering higher performance, larger storage capacities, linear scaling, and enterprise-grade availability.

PowerFlex provides maximum business agility and is ideal for consolidating diverse workloads. Both PowerFlex deployment options federate all resources across a PowerFlex cluster, rapidly and elastically expanding to increase both performance and/or capacity while maintaining low latency. Every additional PowerFlex node or instance added to the cluster will linearly increase the total available IOPs to meet even the most demanding performance requirements. Able to scale up to 512 storage instances (or nodes) in a single PowerFlex deployment, providing tens of millions of IOPs, these solutions can support over 2000 compute instances (nodes) that consume volumes up to a petabyte in usable capacity.

Physical or Software-only deployment:

- The **Dell PowerFlex physical** deployment works in tandem with AWS Outposts compute to provide up to 16 PB of raw storage, addressing the needs of workloads requiring high throughput and access to an abundance of data. This deployment option can also use PowerFlex's fine-granularity data layout enabling data compression and more efficient capacity utilization.
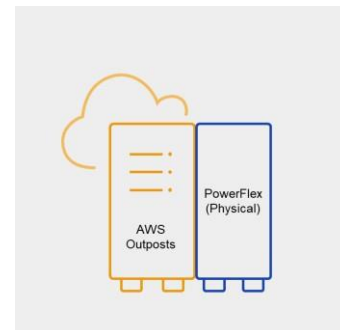
Dell's internal performance testing has shown significant advantages in

terms of throughput. The combination of AWS Outposts and Dell PowerFlex can deliver 12 times more IOPs compared to native Outposts deployment*, and the performance can linearly scale with additional compute.

- The **Dell PowerFlex software-only** deployment can use flexible options utilizing AWS Elastic Block Storage (EBS) or NVMe SSDs within the Elastic Cloud Compute (EC2) instance stores that AWS Outposts racks supply for storing customer data. Leaving nothing unused, this solution allows users to exceed the capacity, performance, and resiliency profile offered by AWS Outposts.

Use both together, and more…

Using the same underlying Dell technology, organizations can optimize for performance, resiliency, and scale irrespective of their Dell PowerFlex deployment mode. Customers are able to implement either deployment option of PowerFlex for AWS Outposts separately or together on-premises. By providing several combinations, Dell delivers utmost flexibility for achieving data protection or application mobility goals.

To learn more, please visit the Dell PowerFlex page on Dell.com.

*Based on a July 2023 Dell internal testing comparing 100% Read workload results for PowerFlex (running v3.6) using AWS Outposts instance stores (4 x i3en.12xlarge) and single compute instance versus standard AWS Elastic Block Storage (gp2) configuration (compute and storage). Actual results may vary.

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