PowerMax Service Levels for Epic Workloads

Ensure consistent application performance

Dell EMC™ and Epic work together to provide guidance in assigning Epic applications to Dell EMC PowerMax service levels, ensuring the best performance for Epic workloads while allowing the consolidation of non-Epic workloads on a single PowerMax array.

Service levels in PowerMaxOS ensure applications have consistent and predictable performance. Users can assign storage groups to specific service levels and ensure the highest priority application response times are not impacted by lower priority applications. Find an in-depth description of PowerMaxOS service levels in the document, Dell EMC Service Levels for PowerMaxOS. PowerMax service levels are available in PowerMax 2000, PowerMax 8000, and VMAX All Flash arrays (250F, 450F, 850F, 950F) that have been upgraded to the PowerMaxOS.

The use of PowerMax service levels allows the consolidation of Epic applications and non-Epic applications to a single array and a single Storage Resource Pool (SRP). The best practice for provisioning non-Epic applications on a consolidated array is to provision the non-Epic applications to the Platinum service level and below.

PowerMax service levels provide the confidence that Epic Production applications are provided the resources necessary for successful consolidation on a single array.

Using the Storage Use, Storage Array and Pool entries from the Epic Hardware Configuration Guide, the following tables provide guidance in selecting service levels when provisioning Epic workloads on Dell EMC arrays running PowerMaxOS.

		Storage Use	Server	Service Level
Primary PowerMax/VMAX	Storage Array/Pool 1	Production ODB Data	Production ODB	Diamond
		Production Journal Files	Production ODB	Diamond
		Production Application Files	Production ODB	Diamond
		Project Environment	Production Support ODB	Gold
		Production Support Environment (Clone or Snapshot of Production)	Production Support ODB	Gold
		Release Testing Environment	Production Support ODB	Gold
		Test and Build Environments	Test ODB	Gold
		Training Environments	Training ODB	Diamond
		Web and Service Servers	Physical Hosts for Multipurpose Servers	Platinum
		ODB Servers	Physical Hosts for ODB Servers	Diamond
		Clone or Snapshot for Nightly Backups	NA	Gold

Primary PowerMax/VMAX

Storage Array/Pool 2

Storage Use	Server	Service Level
Reporting Environment Data and Journal Files	Reporting Environment	Diamond
Reporting Environment-Specific Data	Reporting Environment	Diamond
Clarity Data	Clarity	Platinum
Clarity Test Data	Clarity Test	Gold
Caboodle Data	Caboodle	Platinum
Caboodle Test Data	Caboodle Test	Gold
Cube Data	Cube	Platinum
Cube Test Data	Cube Test	Gold
Multipurpose SQL Server Data	Multipurpose SQL	Platinum
Published Application Servers (Optional)	Published Application Servers	Platinum
Virtual Desktops (Optional)	Physical Hosts for VDI	Platinum
Cogito Servers	Physical Hosts for Cogito	Platinum
Clone or Snapshot for Nightly Backups	NA	Gold

NAS 1

Storage Use	Server	Service Level
Archive Data	Interconnect	Platinum
Archive Journal Files	Interconnect	Platinum
Web BLOB Data	Web BLOB	Platinum
BusinessObjects Enterprise Data	BOE	Platinum
Production and Non-Production Service Server Data	Service Servers	Platinum

DR PowerMax/VMAX

Storage Array/Pool 3

Storage Use	Server	Service Level
DR ODB Data	DR ODB	Diamond
DR Journal Files and Application Files	DR ODB	Diamond
DR Clarity Data	DR Clarity	Platinum
DR Caboodle Data	DR Caboodle	Platinum
DR Cube Data	DR Cube	Platinum
DR Web and Service Servers	Physical Hosts for Multipurpose Servers	Platinum
DR Multipurpose SQL Server Data	Multipurpose SQL Server	Platinum
DR Published Application Servers (Optional)	DR Published Application Server	Platinum
DR Virtual Desktops (Optional)	Physical Hosts for VDI	Platinum
DR ODB VM	Physical Hosts for DR ODB	Diamond
DR Cogito Servers	Physical Hosts for Cogito	Platinum
DR Clone or Snapshot for Nightly Backups***	NA	Gold

NAS 2

Storage Use	Server	Service Level
DR Archive Data	Interconnect	Platinum
DR Archive Journal Files	Interconnect	Platinum
DR Web BLOB Data	Web BLOB (if DR Activated)	Platinum

For additional assistance

The suggested service-level assignments provide a starting point for consolidating Epic workloads on a PowerMax array. Contact your Dell EMC and Epic teams for additional recommendations.

Learn more about Dell EMC PowerMax solutions

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