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Dell EMC PowerStore Midrange Positioning

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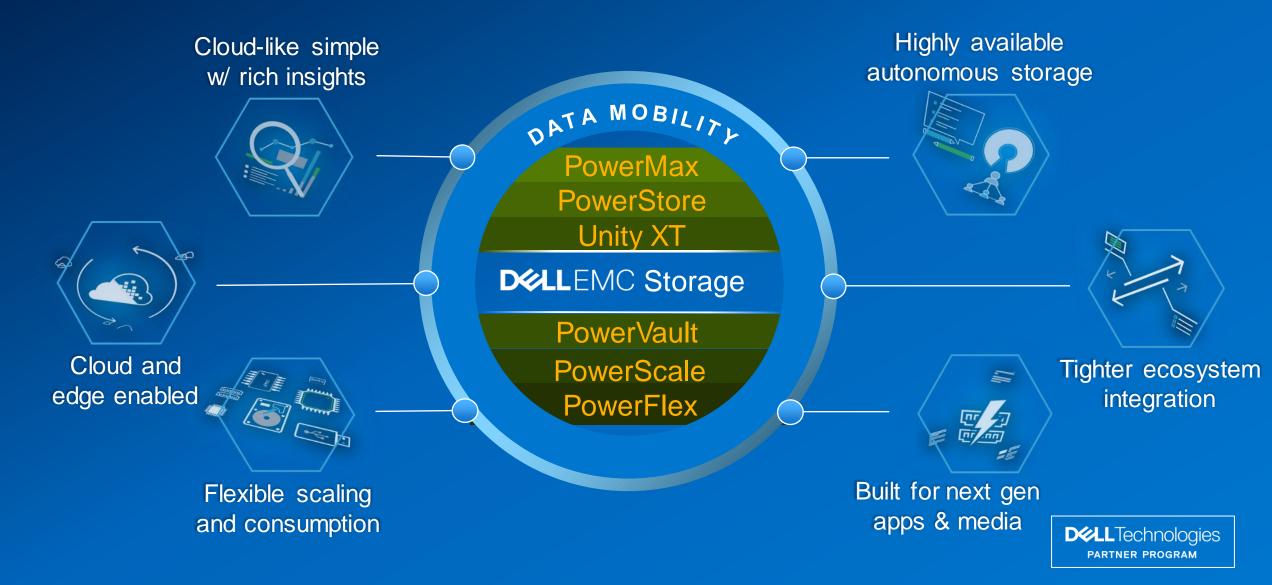
PARTNER PROGRAM



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Dell Storage Vision

A modern, interconnected storage portfolio for your data in a hybrid multi-cloud environment



11% South

> 23% North

3% East
2% Non U.S.

Dell EMC PowerStore 3x3min





DELLTechnologies

Data-centric Ultimate workload flexibility

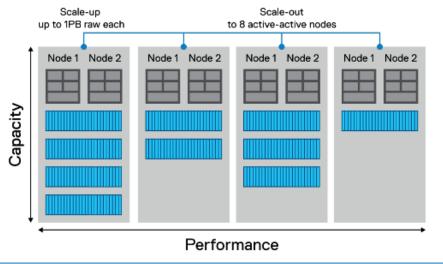
3	Any
ב	Any Workload

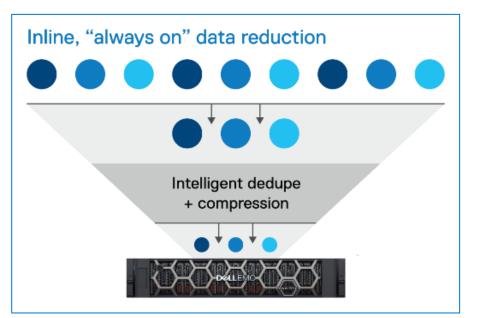
- **Unified**: single platform for block, file, and vVols
- Scale: scale-up and scale-out
- Metric: designed for 99.9999% availability

- **Controllers:** Active-Active with end-to-end NVMe
- Media: Flash or Storage Class Memory (SCM)
- Metric: 7x faster, 3x lower latency than Unity XT

- Inline: always-on data reduction
- Intelligent: dedupe and compression
- Metric: 4:1 data reduction guaranteed

Next-gen performance, advanced clustering





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Performance Optimized

Intelligent

Autonomous, consistent operations

Programmable Infrastructure

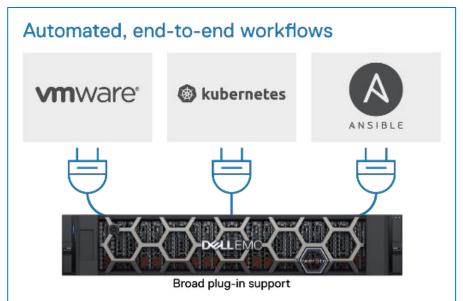
- Automate: storage provisioning processes
- Deploy: eliminate manual steps, reduce risk
- Metric: new resources in seconds vs days

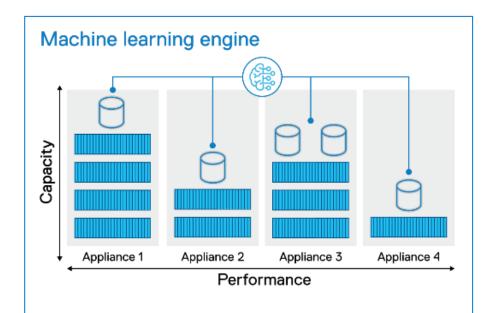


- Discover: new appliances automatically
 Machine Learning: improved system utilization
- Metric: 99% less staff time to rebalance volumes



- Anticipate: business needs and avoid outages
- Simple: single pane of glass view of data center
- Metric: 16x faster to identify HA problems





Adaptable

Flexible

Architecture

Continuously modern and highly adaptable

Container-based: design for faster innovation

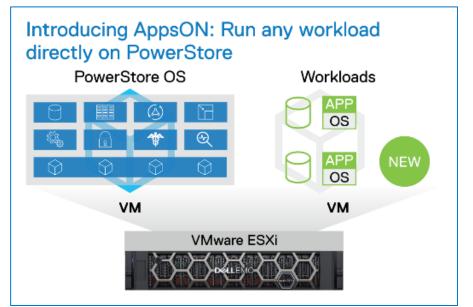
- **Consistent:** services across platforms
- AppsON: ability to run apps locally



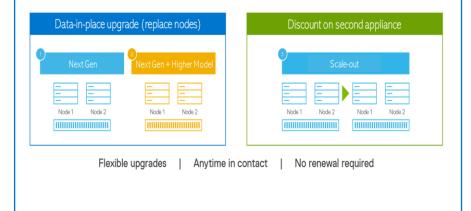
- **Edge: s**mall footprint, easy to deploy
- Cloud: seamless application movement with VCF
- **Data Migration:** on to platform is fully automated

Flexible Consumption

- **Pay-Per-Use:** consumption solutions with DTOD
- Future Proof Program: backed with confidence
- **No Migrations:** non-disruptive controller swaps with the Anytime Upgrade Program

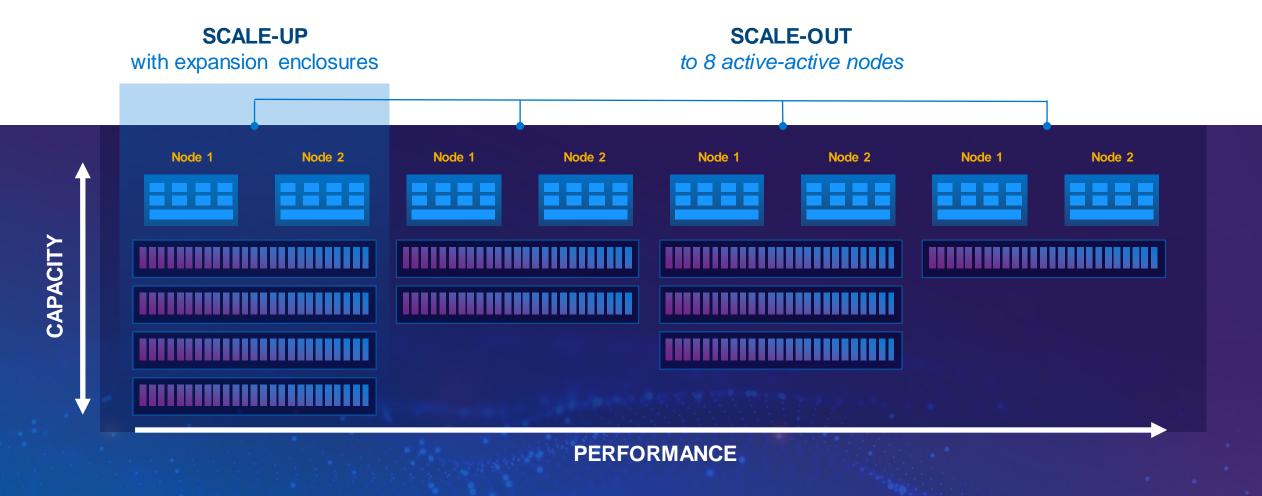


Anytime Upgrade Program: Continuously modern without limits



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Scale-up and scale-out

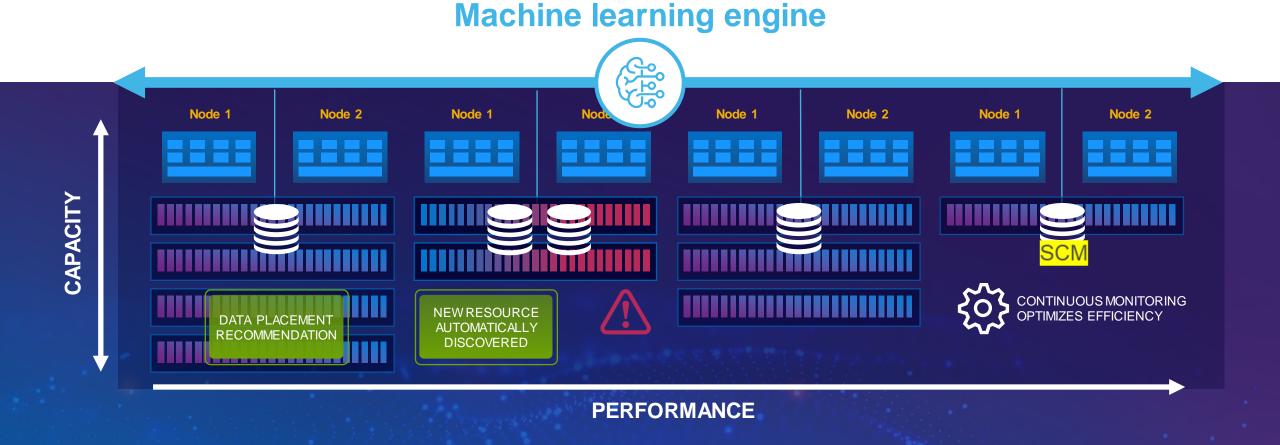


Independently scale compute and storage

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Dell Customer Communication - Confidential

Autonomous appliance



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990/ less stantime to rebalance volumes

less staff time to

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Run applications directly on the appliance

- Infrastructure apps
- Data-intensive, demanding workloads

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11% South

> 23% North

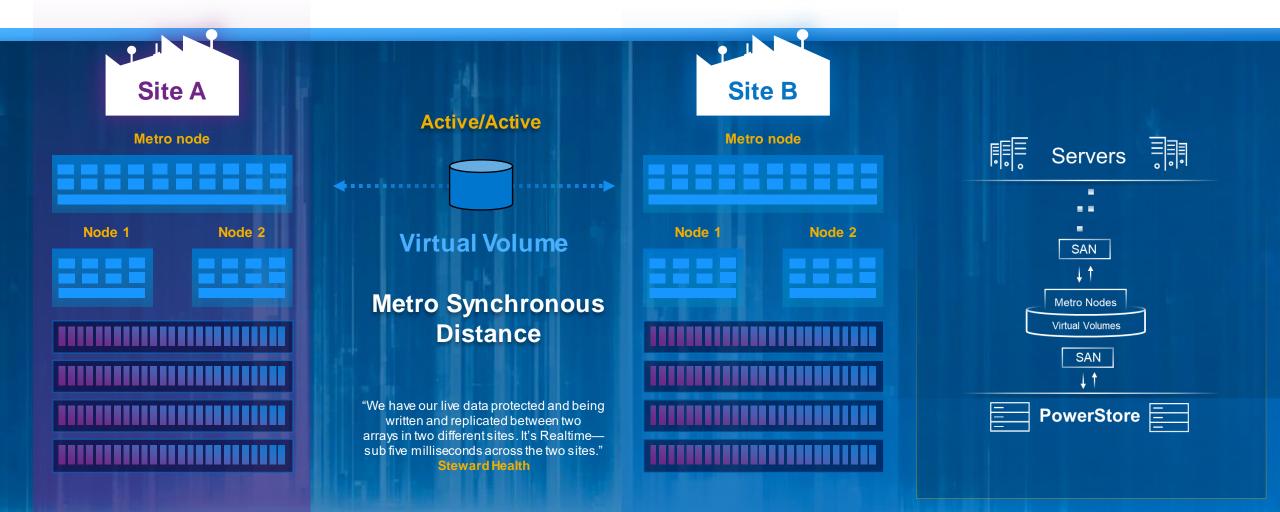
3% East
2% Non U.S.

New PowerStore Metro Nodes



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Metro Node delivers Continuous Availability



Continuous dual site access

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PowerStore metro node: a true differentiator

True Active/Active



Multi-site constant dual access Immediate failback Witness for automatic site recovery

Greater Flexibility



Multi-platform support Workload granularity Replicate to any array

No Hidden Costs



Zero performance overhead No capacity on the array No additional host software

D<echnologies



Best "Metro" solution in the market!

32Gb FC | Single Engine / Dual Node | Built in Management Server Reduced form-factor | 30min to install | Priced to Win Simple to manage: DevOps Automation Enabled (Ansible)

Storage Positioning



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South _____ 3% East

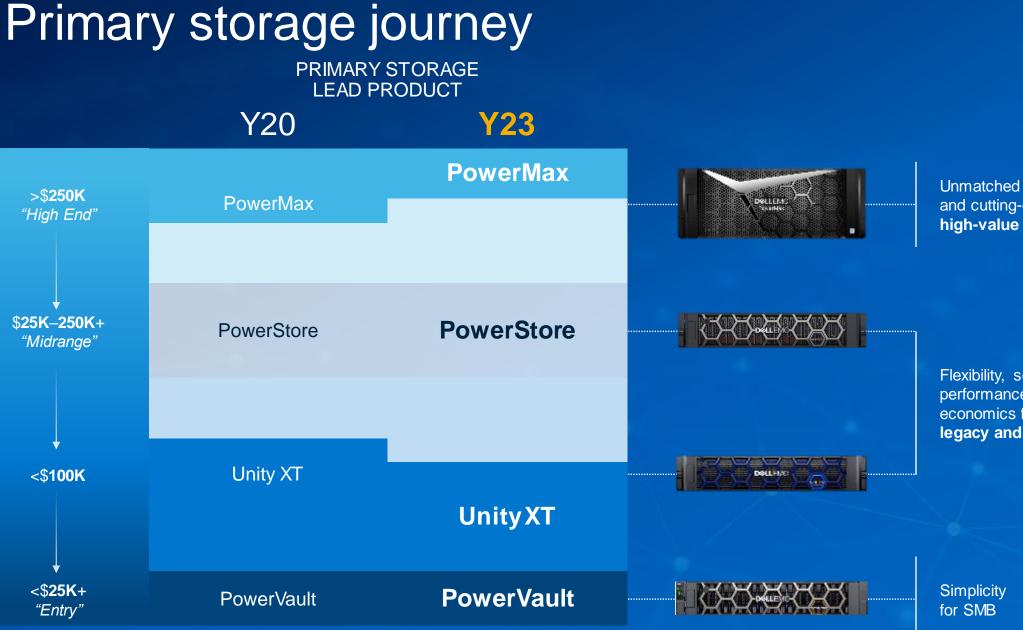
11%

- 2% Non U.S.

IG

23% North

FY21 Primary storage portfolio **PRIMARY STORAGE** LEAD PRODUCT **Y20** Unmatched performance, resiliency >\$250K **PowerMax** and cutting-edge innovation for "High End" high-value workloads \$25K-250K+ **PowerStore** "Midrange" Flexibility, scalability, simplicity and performance with market-leading economics for a wide range of legacy and next-gen apps **Unity XT** <\$100K DELLEMO Simplicity <\$25K+ **PowerVault DCL**Technologies for SMB "Entry" PARTNER PROGRAM



*IDC Enterprise Storage Systems Tracker: Q3 of CY2019

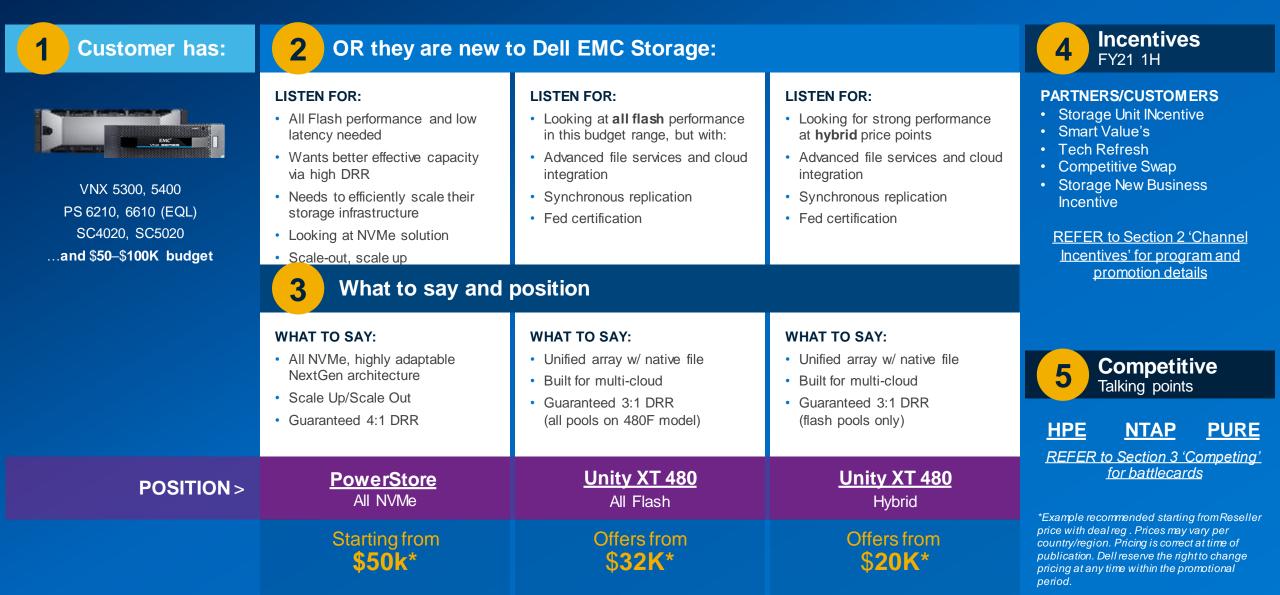
Unmatched performance, resiliency and cutting-edge innovation for high-value workloads

Flexibility, scalability, simplicity and performance with market-leading economics for a **wide range of legacy and next-gen apps**

Primar	y storage ti PRIMARY STORAGE LEAD PRODUCT	ransition		
	Y20	UNLESS		THEN
>\$ 250K "High End"	PowerMax			PowerMax
\$ 25K–250K+ "Midrange"	PowerStore	 Lead All Flash Midrange Solution unless Unity Momentum Unity Loyalty Long Qualification Cycle Hybrid Price Points Sync Replication* Advanced File Features* Federal Certifications *Coming in PowerStore in a later release 	_,	Unity XT
↓ <\$100K	Unity XT	 Lead Hybrid Midrange Solution unless Customer is strongly loyal to SC and not ready to transition New SCOS v7.5 Live Volume required 	•	SC
<\$ 25K + <i>"Entry"</i>	PowerVault	Lead for entry-level opportunities requiring simplicity, basic fea	atures	

Midrange storage positioning battlecard: <\$100k budget

Dell Technologies Channel



Entry storage positioning: \$10K-\$25K budget

Dell Technologies Channel

1 Customer has:	2 OR they are new t	o Dell EMC Storage:		4 Incentives FY21 1H
Dense Servers MD12x0 or other DAS SCV20x0 and \$10-\$25K budget	 LISTEN FOR: Looking for strong performance at hybrid price points Advanced file services and cloud integration Synchronous replication Complete certifications 	 LISTEN FOR: Needs entry solution with basic data services Has multiple workloads to support w/ limited budget Looking for best "Bang for the Buck" value 	 LISTEN FOR: Need fast server expansion, no SAN needed Data services localized at server level Lowest \$/GB capacity 	 PARTNERS/CUSTOMERS Storage Unit INcentive Smart Value's Tech Refresh Competitive Swap Storage New Business Incentive REFER to Section 2 'Channel Incentives' for program and
	3 What to say and what to say:	WHAT TO SAY:	WHAT TO SAY:	promotion details
	 Unified array w/ native file Built for multi-cloud Guaranteed 3:1 DRR (flash pools only) 	 Great performance and capacity at entry prices Large feature/SW set at lower \$/GB Server-attach options 	 PE + MD better together Flexible direct attach platform options Scale up economics at local server level 	5 Competitive Talking points <u>HPE</u> <u>NTAP</u> AF20Q/AF20 FAS2700
POSITION >	<u>Unity XT 380</u> Hybrid	<u>PV ME4</u> Hybrid	<u>MD14x0</u>	HF20H/C <u>REFER to Section 3 'Competing'</u> <u>for battlecards</u>
	Offers from \$12,5K*	Offers from \$6K*	Offers from \$2,3K*	**Recommended Smart Value Offer Reseller Price . Prices may vary per Country/Region. Pricing is correct at time of publication. Dell reserve the right to change pricing at any time within the promisional period

Migration to PowerStore

Native migration included with PowerStore

Flexible orchestration right from PowerStore Manager

Provides seamless transition from existing Midrange platforms

Agent based migration available

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Plus host/application tools, PPME, VPLEX & VMware Storage vMotion

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vmware[®]

PARTNER PROGRAM

Professional services offerings for remote & onsite data migration are available

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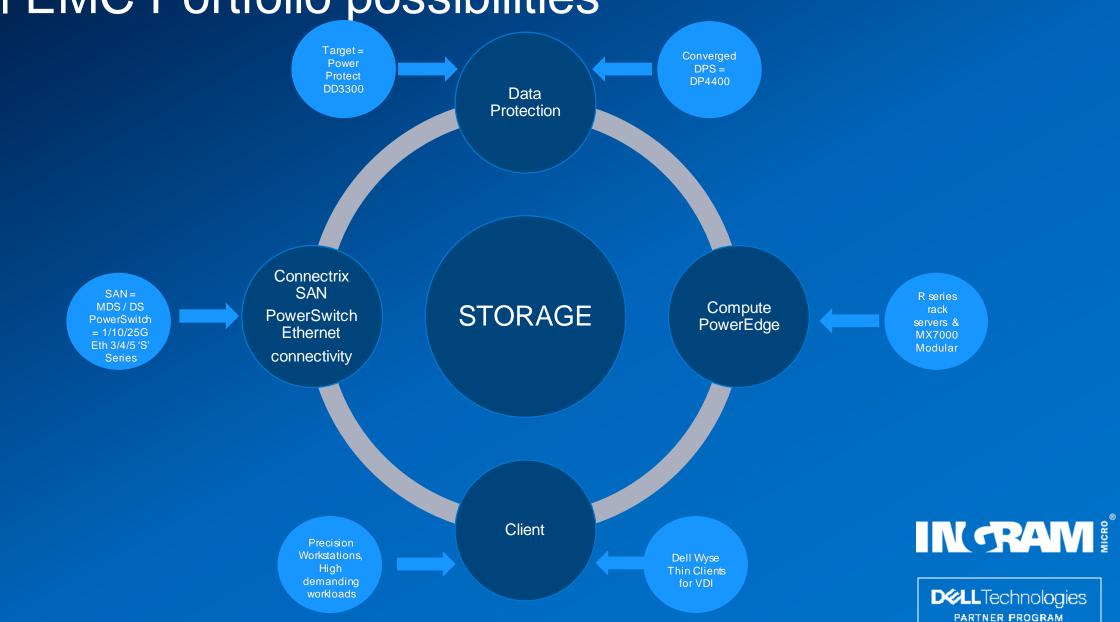
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C) via

DellEMC storage positioning: What's the difference 'Summary'

DellEMC midrange storage designs

PowerStore	Unity	ME4			
Next Gen – Xtreme Performance	THE traditional platform of choice	Capacity at lower Pricepoints			
High Performance Workloads	General Purpose Workloads	Capacity Workloads (e.g. video surveilance)			
Clou	CloudIQ – cloudbased online monitoring (free of charge)				
all NVMe & SCM	Hybrid (Flash &	Disk) incl tiering			
built for Exterme Performance lowest possible latencies	Strong Performance	Good Performance			
Unified (k	olock & file)	Block only			
guarantueed 4:1 always-on data dedup	guarantueed 3:1 dedup				
Anytime Upgrades change to new h/w or next model without extra cost	Future Proof Loyalty guarantee				
Apps-On run VMware VMs on PowerStore					
Microservice based operating system					
	Flexible deployment models and financing				



Dell EMC Portfolio possibilities

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vs NTAP, HPE, Pure

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Your Competitive Intel - Klue

Video Overview on Klue



 Comprehensive coverage of Tier 1 Competitors across Storage, DP, CI/HCI, Cloud, Servers, Networking and Client

Secondary focus on Tier 2 competitors

• 100+ competitors covered overall

Engaging, informative content for partners

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Unity XT vs Pure FlashArra Doll EMC Unity XT	ay Pure ElashArray	[112]
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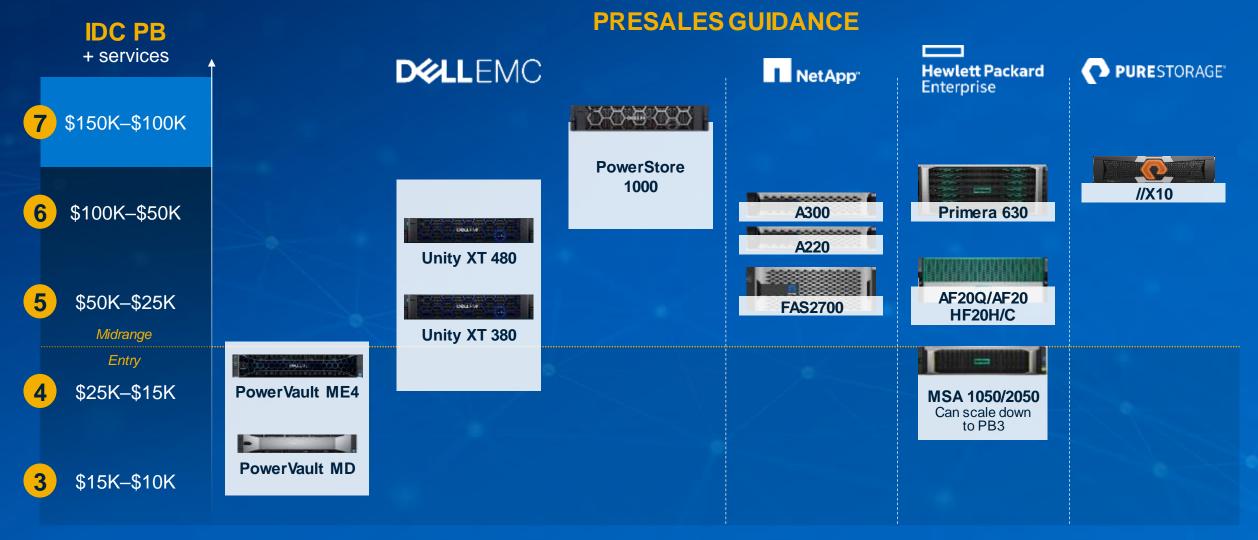






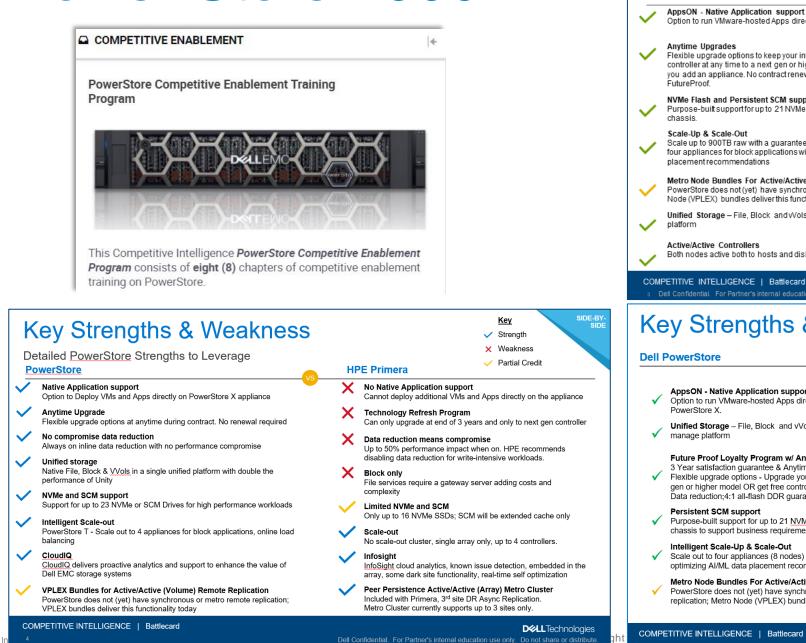
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Dell EMC Storage: <\$100K NTAP/HPE/Pure competitive platforms



NOTE: Competitors by capacity, rough performance and scaling. Price is a factor but directional only in this picture.

Power Store 1000T



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	Key Other ather 9 Martha	_	✓ Strength
	Key Strengths & Weaknes	S	🗙 Weakness
Po	werStore 🗸 🗸	Pur	e
/	AppsON - Native Application support Option to run VMware-hosted Apps directly on the appliance with PowerStore X.	×	No Native Application support Purity//Run cannotsupportESXi and cannotsupportgeneral user applications
/	Anytime Upgrades Flexible upgrade options to keep your infrastructure current. Upgrade your controller at any time to a next gen or higher model OR get free controllers when you add an appliance. No contract renewal required! 4:1 DRR guaranteed by FutureProof.	~	Evergreen Storage "Free Every Three" is a six-year lock-in; refresh with a controller <u>E</u> chooses when <u>renewing</u> three-year contract. Only a 30 day satist guarantee. Efficiency guarantee only if customer requires it, need additional assessment.
/	NVMe Flash and Persistent SCM support Purpose-built support for up to 21 NVMe NAND or SCM data drives in each chassis.	×	SCM only for read cache – primitive LRU management SCM read cache is not persistent, no tiering, no sophistication.
/	Scale-Up & Scale-Out Scale up to 900TB raw with a guaranteed 4 to 1 DRR per appliance. Scale out to four appliances for block applications with self-optimizing AI/ML data placement recommendations	×	No scale-out, no federation No clustering, all Pure arrays are managed independently.
/	Metro Node Bundles For Active/Active Remote Replication PowerStore does not (yet) have synchronous or metro remote replication; Metro Node (VPLEX) bundles deliver this functionality today	~	Active/Lotive remote replication ships with FlashArray
/	$\begin{array}{llllllllllllllllllllllllllllllllllll$	\checkmark	Unproven NAS Support – announced June 10, 2020; untested a unknown
	Active/Active Controllers	×	Active/Passive Controllers
/	Both nodes active both to hosts and disks		Only one controller communicates to media; limits scale and creat bottlenecks
	Both nodes active both to hosts and disks PETITIVE INTELLIGENCE Battlecard Current for Purit Dell Confidential. For Partner's internal education use only. Do not share or distribute.	y//FA 6.0	bottlenecks
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3 [Petritive INTELLIGENCE Battlecard Currentfor Purity Del Confidential For Partner's internal education use only. Do not share or distribute PowerStore AppsON - Native Application support Option to run VMware-hosted Apps directly on the appliance with PowerStore X. Inified Storage – File, Block and vVols in a single unified and easy to manage platform Future Proof Loyalty Program w/ Anytime Upgrades Flexible upgrade options - Upgrade your controller at any time to a next gen or higher model OR get free controllers when you add an appliance Data reduction;4:1 all-flash DDR guarantee NO assessment needed Persistent SCM support Purpose-built support for up to 21 NVMe NAND or SCM data drives in	IBM × × × ×	Dettlenecks Last Updated: July Key Strength Weakne FlashSystem No Native Application support Doesn't support running user applications on the system No Unified Storage - Need a Windows NAS Server or Spectrum S Gateway for NAS IBM FlashWatch Doesn't include a money back guarantee Storage Upgrade Program only guarantees that you can refresh for same price or less Data reduction – Only 2:1 Guarantee, up to 5:1 with assessment Persistent SCM but only support for four SCM drives

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Resources

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Dell Technologies Democenter

PowerStore



UNITY All-Flash

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뼺	DASHBOARD	Main - +	
		SYSTEM HEALTH	STORAGE HEALTH
	PROTECTION & NOBLITY Snapshot Schedule Replication The Sales	SYSTEM CAPACITY	POOLS By Must Available Store
			DynamoPost-01 95578
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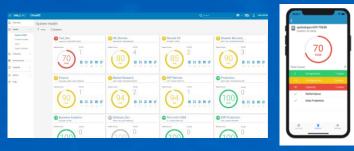
<u>DP4400</u>



<u>PowerScale</u>



Cloud IQ



VXRAIL







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