

Why Does a Major Broadcasting Network In The Middle East Choose Flash For Their Workflow?

Presented by:

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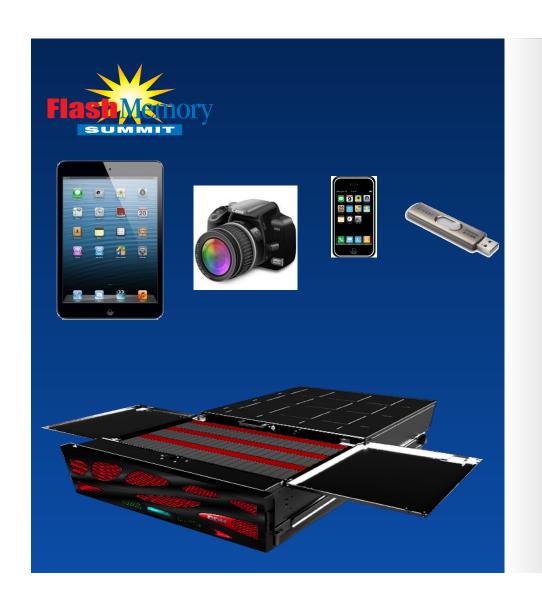
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cFlash

eFlash



Top Challenges for Enterprise At-Scale, Big Data and HPC Environments

Biggest challenges today?

Identifying and removing I/O bottlenecks



Traditional flash arrays come up short:

- Workflows only as fast as the slowest moving part
- Spinning disk drives are outdated & used for capacity rather than response time







Top Challenges for Enterprise At-Scale, Big Data and HPC Environments

Customers need:

- Advanced analytics, modeling and simulation applications
- Low cost applications software license
- Reduce latency of infrastructure
- Maximize CPU work on the computes
- Massively scalable, high performance, technical infrastructure
- Support demanding requirements and increasing time to results





What are the Flash hungry applications?

Telecom	Financial	O&G	Retail	Public
Billing CRM	EoD Batch CRM Analytics DWH	ERP SCM BI Seismic	Reporting Warehouse	Analytics Healthcare Genome Cyber Security

VDI – Currency Exchange platforms, e-trading, Online reservations

Databases (ERP, CRM, SCM Analytics, ...)

Big Data (Hadoop , Spark)



Challenges For Middle East Broadcast Company



- Enterprise Cyber Security project include compute power, storage and network infrastructure
- Information Security Infrastructure function with optimum security, reliability & performance
- VMware Integration
- Comply new ME cyber security laws



DDN Big Data Storage Solution for IBM Qradar Security Intelligence Software



SAN A

 242 x 1.6TB Read Intensive SSD 12GB/s 4Kn

SAN B

 242 x 1.6TB Read Intensive SSD 12GB/s 4Kn

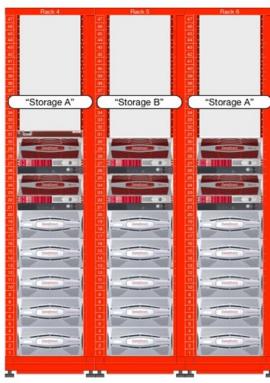
SAN C

- 330 X 8TB 7,200 RPM 12Gb/s 4Kn
- 25 x 1.6TB Read Intensive SSD 12GB/s 4Kn

SAN Monitoring - DirectMon Server

- Manage multiple systems from a single point
- Redundant Management Servers





Total parts lists

3 x **SFA12KXi Active/Active** Redundant Block Appliance. Includes 2 x 12KX40IS-16FC, 32x FC16 ports

15 x SS8460 84-slot 6Gb/s SAS/SATA/SSD enclosures.

For storage A:

System 1

242 x 1.6TB Read Intensive SSD 12Gb/s SAS 4Kn drives

System 3

242 x 1.6TB Read Intensive SSD 12Gb/s SAS 4Kn drives

For storage B:

System 2

330 x 8TB 7,200 RPM 12Gb/s SAS 4Kn drives 25 x 1.6TB Read Intensive SSD 12Gb/s SAS 4Kn drives

For SAN Monitoring

1 x 1U DirectMon server

(3 x 47U racks to be supplied by customer)



Estimated Power(Watts): 16,003 total Estimated Heat (BTU/h): 54,603 total Weight without Racks(kg):1,488 total Estimated Airflow(CFM): 4,224 total





Three High End Systems and only 3 x 28 RU!! ~ 500 x SSD and ~ 400 x SAS_NL





DDN benefits on this Project



Problems We Solve

1. Speed



- 2. Efficiency
- Faster Insight

How We Add Value and Deliver Differentiation

- Delivering fast ROI by installing IBM Qradar Security Software without tuning.
- Lowering Software licenses costs by 2x by DDN low latency < 3ms though maximizing Compute CPUs workload
- Reducing Opex → power and cooling requirements by 4x
- Instant data copy and management to disk, tape, cloud in the future



5 Petabytes of All Flash



DDN Flashscale™ 1 rack



Flash Startup
3.3 racks



Major Storage Vendor 37.6 racks



All in One DDN Flashscale™!!





















What Is Your Dream? Let us help you!







Questions & Answers

Thank you!

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