

Solid State Drives The best hardware choice for Software Defined Storage solutions

Software defined storage (SDS) is a fast-growing solution for data storage that helps resolve a growing but fundamental issue: How to store and retrieve massive amounts of data.

Networking approach



Before SDS



Co-mingled control and data planes



environments

Difficult-to-manage

abstraction and

virtualisation

Complex virtual



Data stored in siloed servers



array investment

Significant server

After SDS



Abstract data from hardware



Integrated storage, compute and networking



SDS

and retrieval

Standard

interfaces

Software-

orchestrated

data storage



Virtualised data

path

Software Defined Storage (SDS)

In summary

separates storage software and software services from underlying hardware to yield cost benefits, flexibility, and scalability.



SDS Benefits rely on smart hardware decisions

SSD reduces the need for and cost of future hardware purchases, and

that's a big deal. But hardware quality matters. That's where SSDs pull far ahead of HDDs.









□ Online Transaction Purchase (OLTP) ☐ Business Intelligence (BI) □ Content Display Network (CDN)

Choose the best SSD for your application

☐ Web Hosting/Streaming □ Internet of Things (IoT)

10 times faster

than HDD

- Edge Computing
- - SATA SSD



25000

15000 0

10000

5000

S

Plenty of compatible legacy systems

Price/Capacity ratio

NVMe SSI



Lean and flexible form factor

Up to 10 times faster

than SATA



for flash technology

Optimised standard

Consistent and sustainable performance

6000 5000 4000

2000 S

0

8020.0D4

8020.0D8

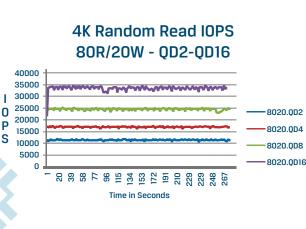
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Client vs. Enterprise IO Performance Consistency (QoS) 4K Random Read IOPS

80R/20W - QD2-QD16

8020.0D8 8020.0D16 19 37 73 91 109 1127 145 163 181 181 181 181 181 225 225 225 227 228

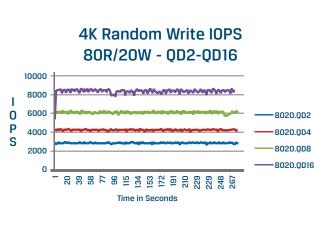
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of data loss in the event of unexpected power failure.

manufacturer of memory and storage products.

Time in Seconds



Time in Seconds

4K Random Write IOPS

80R/20W - QD2-QD16

Kingston's Enterprise Data Center (DC) SSDs are designed with a stringent set of development requirements and a thorough testing process. This results in consistency for workloads requiring a balance of high random read-and-write IOPS performance. Built-in Power Loss protection to mitigate the risk

IT teams around the globe trust Kingston, the world's largest independent

We know that planning the right solution requires an understanding of your project's security goals. Let Kingston's experts guide you:

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