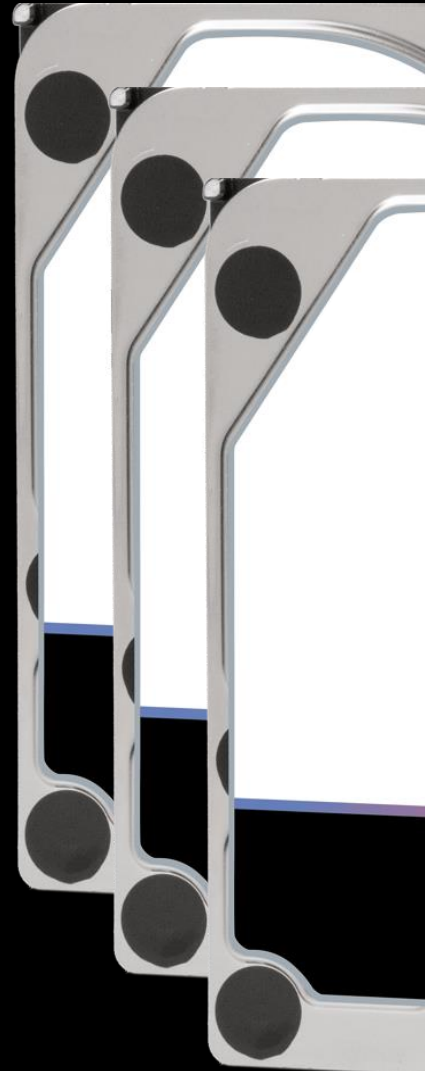


Решения для хранения данных на платформах Western Digital





HGST

a Western Digital brand



a Western Digital brand

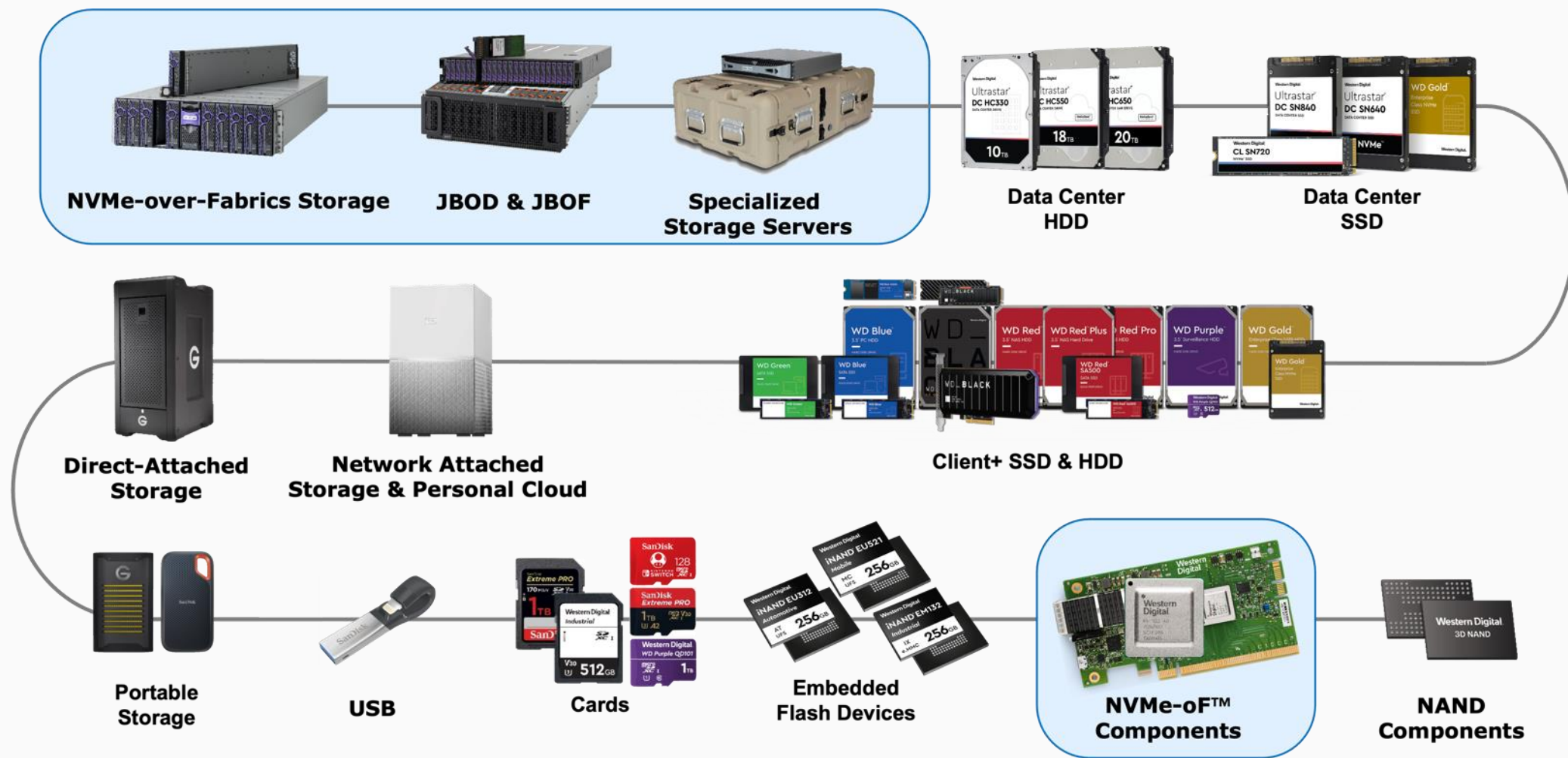


SanDisk®

a Western Digital brand

Платформы Western Digital

Western Digital Product Portfolio



Western Digital Platforms Portfolio

High Capacity, Performance and Flexibility

Specialized



Data Transport and
Ruggedized/Mil-Spec Edge Servers

JBOD



High-density JBODs

NVMe-oF & Composable



Cold Storage



Composable Disaggregated



NVMe-oF attached JBOF



Ultrastar

OpenFlex

RapidFlex

Solutions to access, transform, transport and preserve data

Ultrastar® Data60/102 Storage Platform

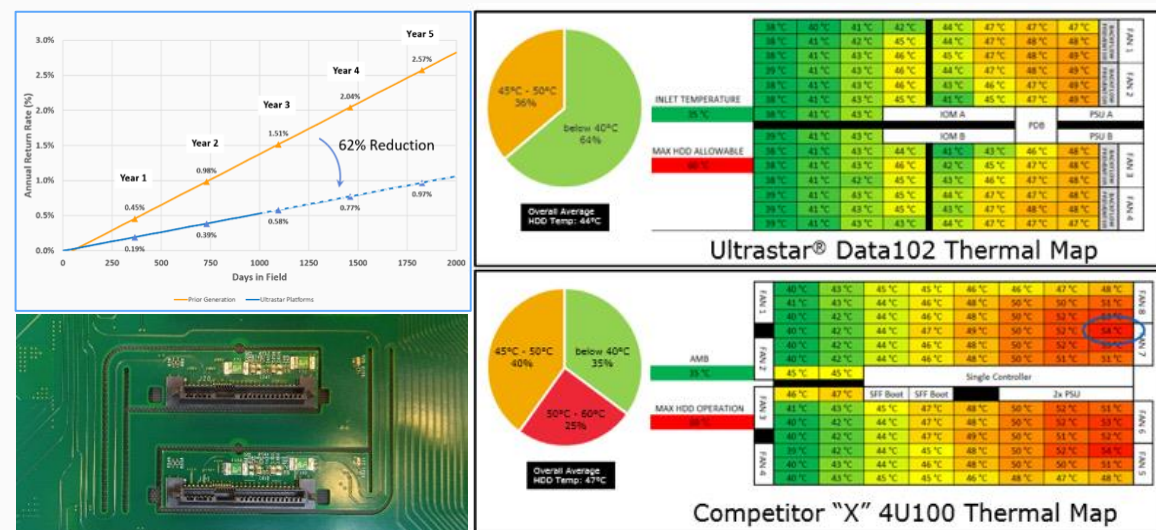
- 4U 60-bay and 4U 102-bay JBOD family:
 - Compact 4U60 with depth of less than 36" (890mm)
 - Dense 4U102 with over 2.0PB in 4U (20TB SMR HDDs)
- 100% WDC-designed with innovations
 - IsoVibe™ and ArcticFlow™
 - Dramatic reliability improvements – 62% reduction in HDD returns*
 - Backed by a 5-year limited warranty
- Enterprise grade, big data storage use cases
 - Backup, archive, email
 - Disaggregated storage for SDS environments



* Based on observed drive return data, does not change product specifications and does not constitute a warranty

Ultrastar® Data Family Innovations

- Measured reduction of 62% in drive return rate*
 - Same HDDs, vs. similar WDC JBOD without IsoVibe™ & ArcticFlow™
- IsoVibe patented vibration isolation technology
 - Vibration Isolated HDD carrier/slot & fans
 - Over 60% lower vibration
 - Performance is maintained, even when all the drives are working hard
- ArcticFlow thermal zone cooling technology
 - Lower temperatures, improved reliability, energy savings
 - \$1,500 in energy savings per enclosure
- Serviceability – maximizing “cold aisle” access
 - Rack mounted top cover
 - Top-load drives, tool-less carrier

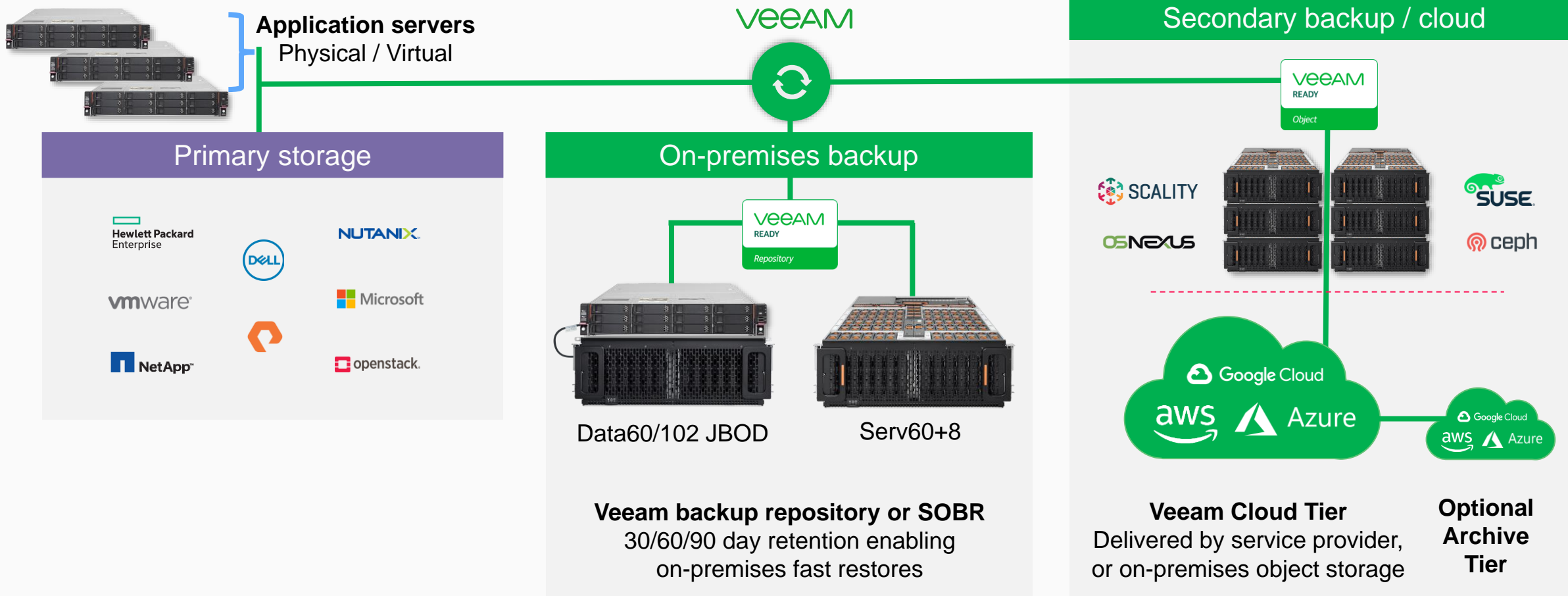


* Based on observed drive return data, does not change product specifications and does not constitute a warranty

Решения с партнерами

Veeam

VEEAM

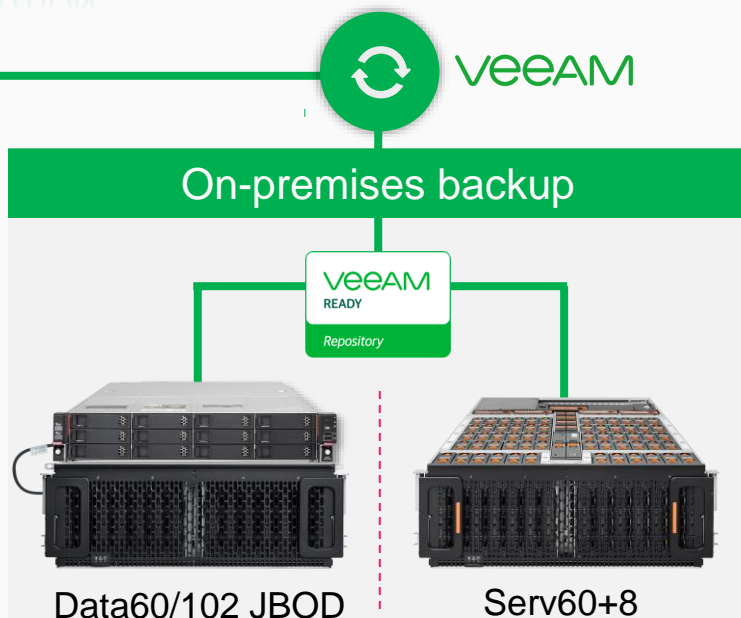


Veeam Backup Repository

...and SOBR (Scale-Out Backup Repository)



VALIDATED
SOLUTION



Veeam backup repository or SOBR
30/60/90 day retention enabling
on-premises fast restores

POSITIONING

Validated solution

- validated as an official Veeam Ready Repository storage solution. Built by Western Digital, powered by Veeam.

Affordable capacity

- cost-effective capacity expansion for an existing backup server, or high-density server for new installations

Efficient storage

- leverage Veeam's dedupe and compression technology to reduce storage space requirements

BENEFITS

Fast installation

- fast to procure, easy to install and simple to manage

Improved reliability

- improve long-term reliability with IsoVibe™ and ArcticFlow™ technologies

Increase density

- consolidate existing NAS and/or backup appliances & improve efficiency with high-density storage hardware

Veeam Cloud Tier

For those building their own cloud



VALIDATED
SOLUTION

veeam



Secondary backup / cloud



OSNEXUS



ceph

Veeam Cloud Tier

Delivered by service provider,
or on-premises object storage

POSITIONING

Validated solution

- validated as an official Veeam Ready Object storage solution by Western Digital's Technology Alliance Partners.

Expand capacity

- highly cost-effective capacity tier used as an "extension" of the primary backup repository

Automated backup

- Veeam Cloud Tier automatically offloads older backup files from the primary backup repository to secondary backup

BENEFITS

Lower TCO

- drive down cost per terabyte in large configurations where the focus is achieving maximum capacity for the lowest price

Increase durability

- protect data with advanced methods of data protection to increase durability and availability

Eliminate tape

- utilize object storage to eliminate tape along with all the hassles of managing, transporting and storing tapes at an off-site location

OSNEXUS

QuantaStor (iSCSI/FC/NVMeoF/NFS/CIFS/S3)


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[Solution brief](#)

Western Digital.

Western Digital - QuantaStor SAN/NAS Storage Solutions

QuantaStor SAN/NAS solutions on Western Digital systems provide scalable storage from 40TB to 8.6PB per cluster delivering block (iSCSI/FC) and file storage available using 2x or 3x servers per cluster with scalability to 32x clusters per Storage Grid.

Usable Capacity (TB): TB

Use Cases:

Server/Cluster Specification

Server Model:

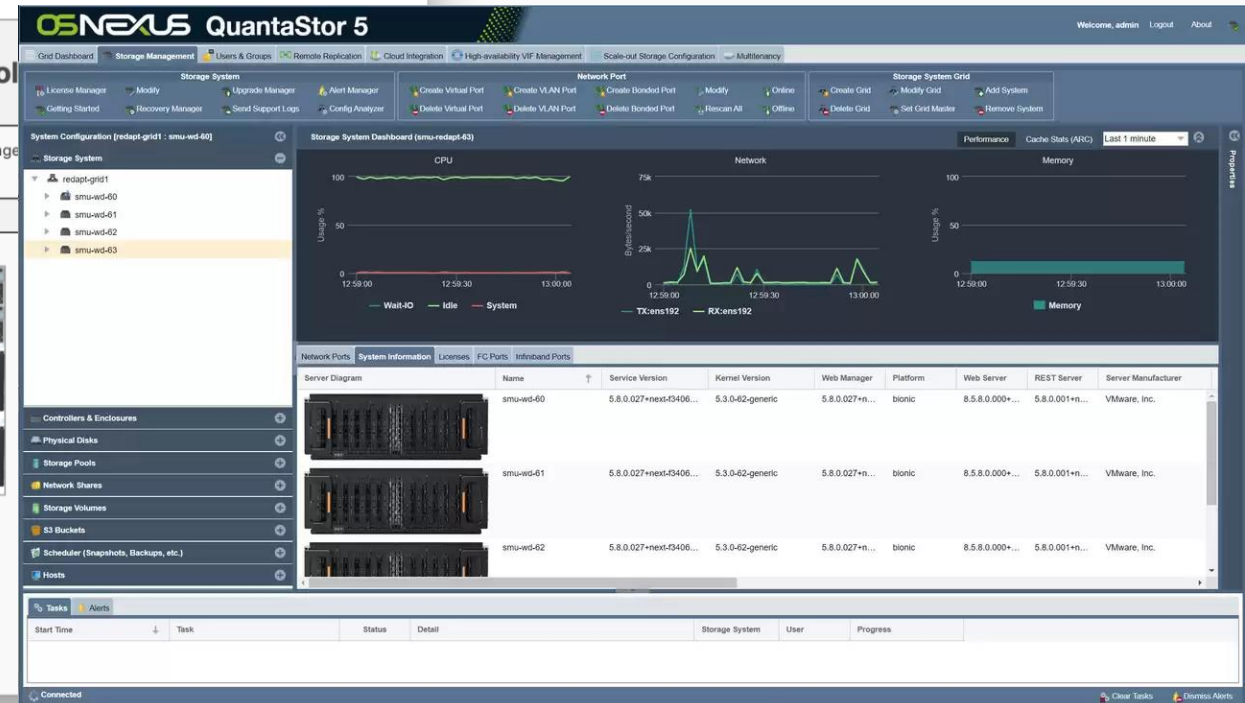
Storage Enclosure:

Data Device:

Write Log / Pool:

Cache & Offload / Pool:

Rack Summary



<https://www.osnexus.com/zfs-designer?conf=wd>

<https://www.westerndigital.com/partners/technology-alliance/osnexus>

QSAN

<https://qsan.su/goods/sistemyi-xraneniya-dannyix/>



QSAN XCubeSAN XS5226D

**Now it's possible
with QSAN**

Massive scale, performance, and reliability

up to 4x WD Ultrastar Data60/Data102

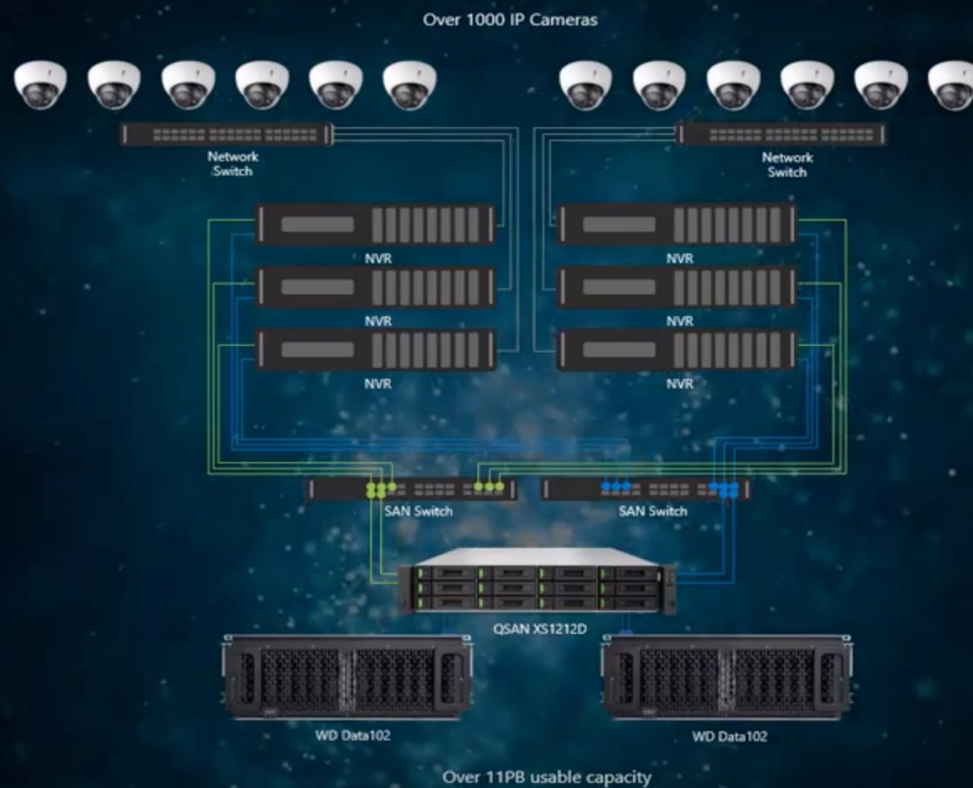
QSAN | **Western Digital**

Settings

<https://qsan.su/novosti/qsan-sert-western-digital-ultrastar-data60-for-xcubesan.html>

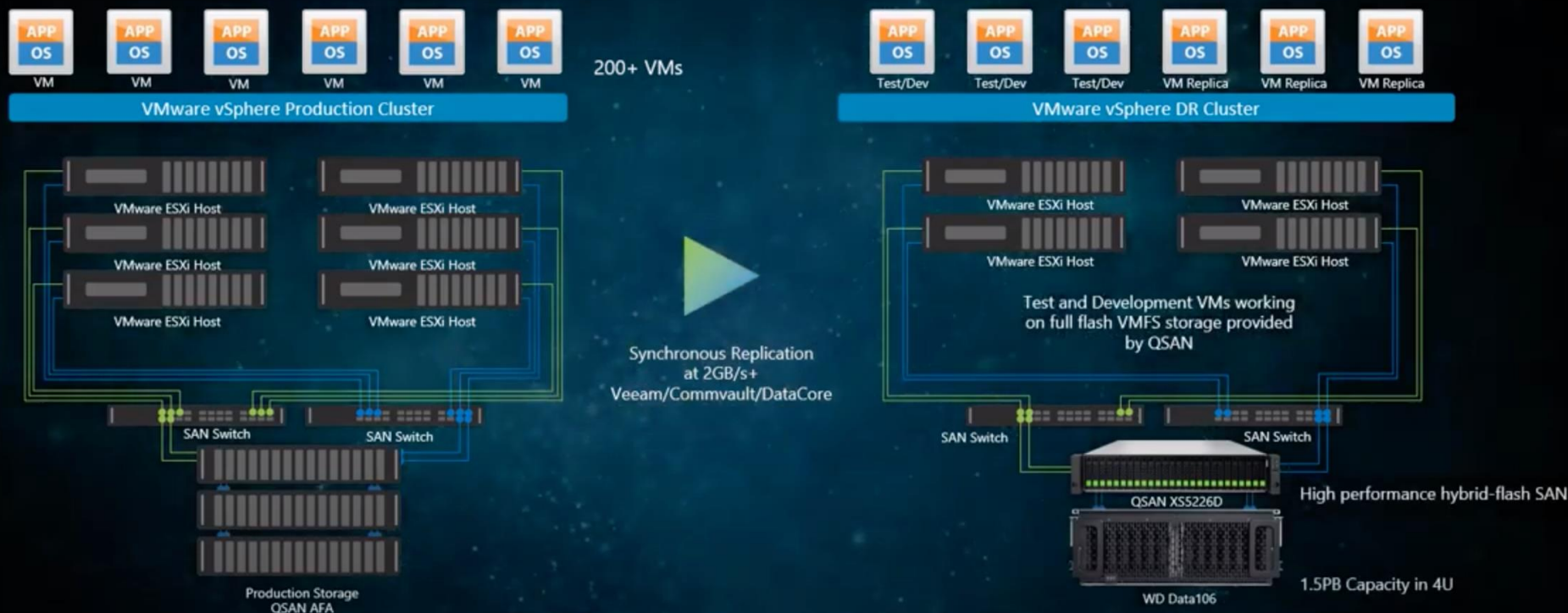
<https://qsan.com/en/newspage/218>

QSAN видеонаблюдение



Massive Scale, Performance, Reliability Surveillance Storage

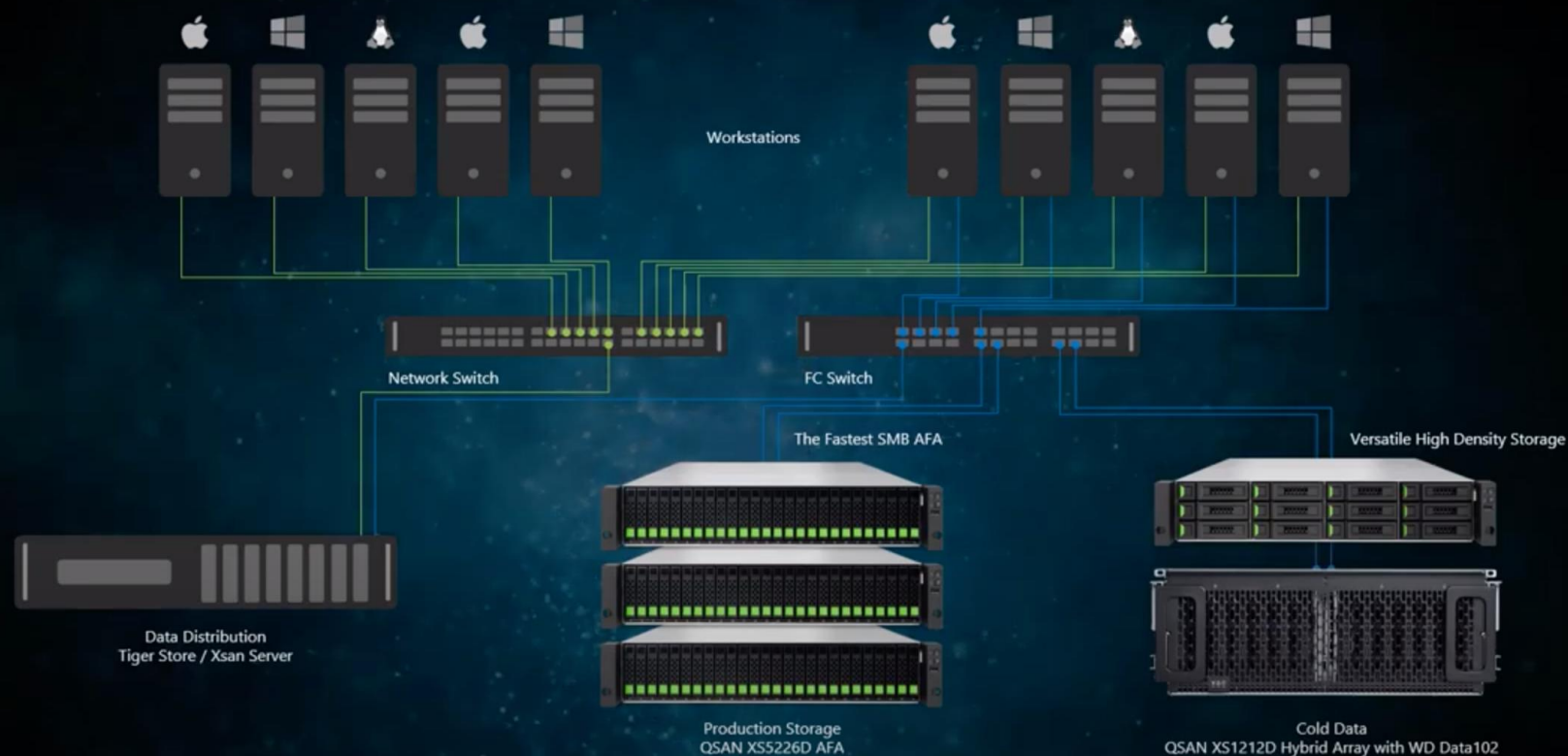
QSAN бэкап виртуальных машин



Backup VMs like a PRO

QSAN производство и архив медиаконтента

— 1 / 10 / 25 GbE / iSCSI
— 8 / 16 Gb FC



Powerful Storage for Media Production and Archiving

Raidix

<https://www.raidix.ru/solutions/western-digital/>

Файловый (NFS, SMB, ATP, FTP) и блочный (FC, IB, iSCSI, SAS) доступ

Минимальное влияние отказов накопителей и оборудования

Высокая пропускная способность для интенсивных нагрузок

Дополнительная защита данных за счет удаленной репликации

Легкое масштабирование и гибкие конфигурации

Референсные архитектуры:

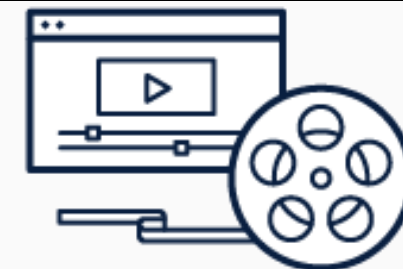
<https://www.raidix.com/uploads/2018/10/reference-high-performance-fault-tolerant-data-storage-system.pdf>

<https://www.raidix.com/uploads/2018/10/reference-architecture-scale-out-data-storage-system.pdf>

<https://habr.com/ru/company/raidix/blog/354340/>



Для
видеонаблюдения



Для видеоконтента

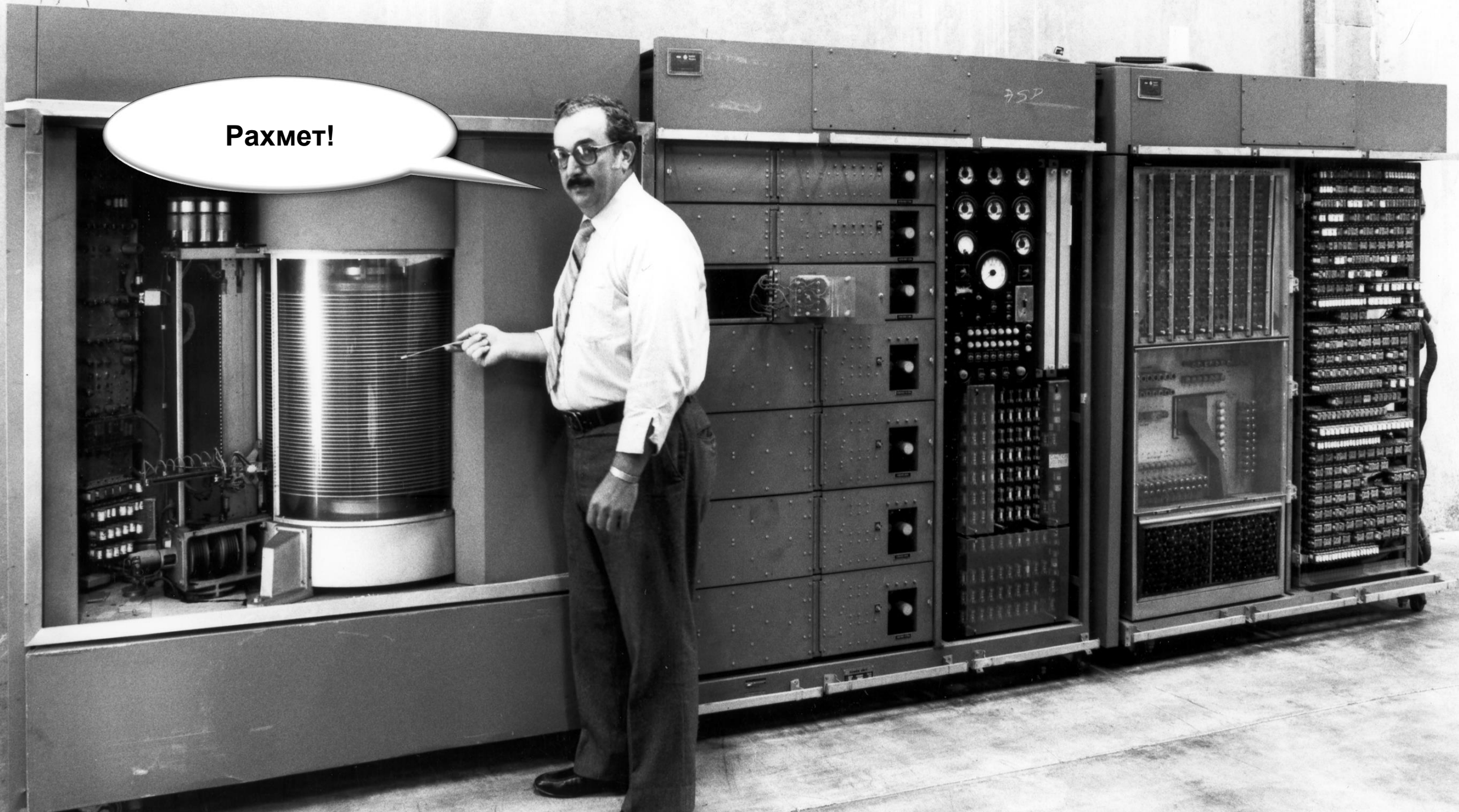


Для корпоративных
инфраструктур



Для HPC-инфраструктур

Рахмет!





Western Digital®

Create What's Next