QSAN SKILLINE

[PACS, RIS, HIS]

Технологии Qsan в сфере медицины

Дмитрий Михайлин
Ведущий инженер, Skilline

50PB+

данных сгенерировано в области медицины в 2018

IDC (12/13)

50PB+

данных сгенерировано в области медицины в 2018

90%

различного рода снимки

IDC (12/13)

50PB+

данных сгенерировано в области медицины в 2018

8.5%

Оценка доли рынка хранения данных в сфере медицинских услуг

MM 2018

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Radiology

Cardiology

Ophthalmology

Printers

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PACS – Picture Archiving and Communication System

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Radiology
Cardiology
Ophthalmology
Printers
DICOM /
Non-DICOM
Radiology PACS
Cardiology PACS
Ophthalmology PACS

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Radiology
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Ophthalmology
Printers
DICOM /
Non-DICOM
Radiology PACS
Cardiology PACS
Ophthalmology PACS
Vendor Neutral Archive (VNA)

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HIS – Hospital Information System
EMR – Electronic Medical Records
RIS – Radiological Information System

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Printers
Clinical Workstations
Diagnostic Workstations
DICOM /
Non-DICOM
PACS 1/2/3..
VNA
PACS / VNA Image Servers
Application Servers (HIS, RIS, EMR)

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NFS
On-Site Archive
NAS / Unified Storage

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Устройство хранения для PACS/VNA

QSAN XCubeNXT
Unified Storage

QSAN XCubeNAS
File Storage

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QSAN XCubeNXT
Unified Storage

2U12, 2U26, 3U16, 4U24

- Dual-Active Controllers
- 99.9999% Availability
- Block Storage iSCSI/FC
- File Storage NFS, AFP, CIFS, SMB
- 8/16/32Gb FC
- 1/10/25GbE
- 6PB+ Capacity

QSAN XCubeNAS
File Storage

T2, T4, T8, 1U4, 2U8, 2U12

- Single Controller
- File Storage NFS, AFP, CIFS, SMB
- 1/10/25GbE
- Up to 2PB Capacity

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QSM 3.3

Простой, интуитивно понятный **интерфейс управления**

ZFS File System

Data Retention
Срок жизни для File/Folder

Различные виды Backup
Rsync, Snapshot, XMirror, Cloud Sync & Backup

Inline Data Reduction
Compression /Dedup

WORM
Write Once Read Many

XReplicator
Лицензия на 100 устройств в комплекте
Powered by Acronis AnyData Technology

Load Balancing
Для систем с 2 контроллерами

AES-256 Pool Encryption and SED Support

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ZFS File System

Data Security as Priority

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До 25% рентгеновских снимков оказывается поврежденными.

По оценкам WE Forum

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Возможные причины: ошибки при передачи (сеть, внутренние интерфейсы), внезапные отключения электропитания, логические повреждения файловых систем, деградация накопителей

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ZFS File System
Data Security as Priority

RAID Z
Silent Corruption Prevention

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ZFS File System
Data Security as Priority

Свхербольшие тома
500TB+

Огромный размер файлов
500TB+

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WORM
Write Once Read Many

ZFS File System
Data Security as Priority

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WORM
Write Once Read Many

ZFS File System
Data Security as Priority

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NFS
iSCSI/FC
On-Site Archive
NAS / Unified Storage
Production Storage
Hybrid / All-Flash SAN

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Устройства хранения для HIS/RIS/EMR

QSAN XCubeSAN
Hybrid-Flash Block Storage

QSAN XCubeFAS
All-Flash Block Storage

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QSAN XCubeSAN
Hybrid-Flash Block Storage

2U12, 2U26, 3U16, 4U24

QSAN XCubeFAS
All-Flash Block Storage

2U26

- Scale Up 6PB+
- SSD Life Management
- Dual-Active Controllers
- Fast RAID Rebuild
- Online Raid Migration and Expansion
- 400K IOPS 4k <1ms

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Off-Site DR

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XInsight

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Оперативная поддержка

Авансовая замена запчастей

Помощь в инсталляции

Демо

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Вопросы?

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Спасибо

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