

The background is a solid blue color with a repeating pattern of lightbulbs. Most lightbulbs are white outlines, but several are filled with a yellow-green color and have short lines radiating from the top, indicating they are lit. The lightbulbs are scattered across the entire background.

ZADARA
SUMMIT
2018

**INNOVATE
NOW**



Zadara Vision and Roadmap

Always Aligned with your Changing World



Oded Kellner

VP Product Management, Zadara

A storage industry veteran. Oded held several storage software development and product management roles in big IT corporations. His main focus is the overall customer experience, with proven record of storage products that clients love to use. Prior to joining Zadara, Oded was a Senior Product Manager at IBM for the XIV storage systems. Before joining IBM Oded served as a Director of Product Management for LSI Storage Systems. Prior to that, Oded held research and development positions at CA (Computer Associates). Oded holds a B.Sc. degree in Computer Engineering from the Technion-Israel.

Presentation Content



- Trends in IT
- Zadara Vision
- Roadmap

Top Storage Trends 2018

2018 Storage Trends

TOP 5 STORAGE TRENDS FOR 2018

01

Flash will get bigger and faster
Flash technologies change the storage market

02

Smarter Storage
Integrated data services to compact, protect, extract value of the data

03

Edge computing and analytics
Internet of things will explode the amount of data to process

04

Predictive storage analytics
Storage analytics to improve performance and availability

05

Data Security and Cyber Security
Focus on data security and privacy

2018 Storage Trends



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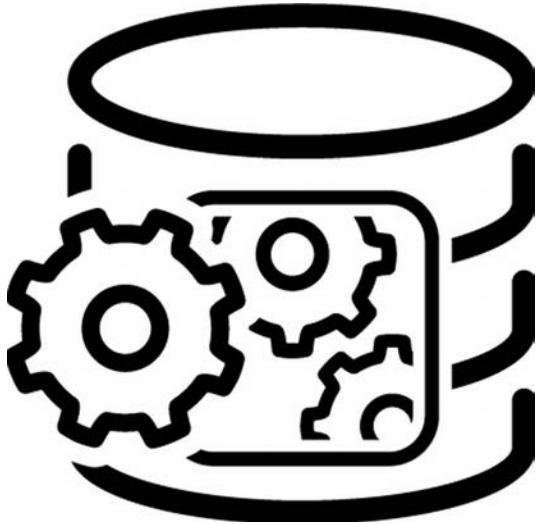
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In the following slides...



Industry Trend



Already Done



Roadmap Item

Flash will get bigger and faster

- 📈 Wide-scale adoption of flash storage (1Q18 19EB, 46M units Shipped)
- 📈 Becomes the new standard
- 📈 HDDs are here to stay (still way more expensive)
- ✅ 4TB SSD's
- ✅ Data Reduction to save capacity
- ✅ NVMe to replace SATA drives interface
- 📍 NVMe-oF - fast backend interconnect
- 📍 Larger SSDs
- 📍 QoS per volume



More about that:
Western Digital Storage Media
Tuesday @ 3:45 pm

More about that:
Intel's New Compute Platform
Tuesday @ 11:00 am

Smarter Storage

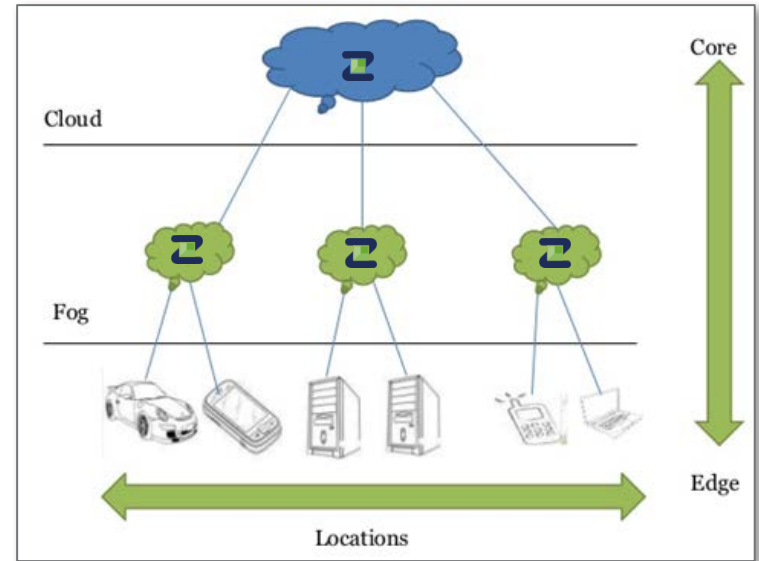
- Need to process enormous amount of data
- Integrated Data Services
- Computing moves to the storage
- Scale-out architecture
- Built-in Backup, Integrated AV
- Container Services (ZCS)
- Additional services: archiving, search, cleansing...
- Micro Services: Kubernetes



More about that:
Smarter Storage with Containerized Applications
Wednesday @ 1:00 pm

Edge Computing

- Increasing number of IoT devices collecting massive amounts of data
- Big Data and business intelligent tools - IoT analytics
- Edge Computing - Fog Computing
- File/Object Storage at large scale
- Hundreds of locations
- Edge data services
- Data mobility
- Cloud auto tiering



Edge/Fog Computing Use Case



Each autonomous car generates up to 100TB per day

Local low latency storage

Initial processing at the edge

Seamless upload of reduced data

Analytics and Archival at the public Cloud

Predictive storage analytics

- 📈 Harness huge amounts of data into operational analytics
- 📈 Analytics guide strategic decision-making
- 📈 Relying on analytics to tune and optimize operations
- ✅ New VPSA monitoring tools
- ✅ New Ops Panel data aggregator

📍 Zadara Analytics



Data Security

- Increasing cyber attacks
- Data security controls
- Personal privacy

- ✓ SOC2
- ✓ ISO27001
- ✓ HIPAA
- ✓ GDPR

More about that:
Stay Calm and Be Compliant
Thursday @ 9:30 am

More about that:
The Era of Data Privacy
Thursday @ 11:30 am



📍 Keep tighten the security. GDPR journey just begun.

Company Vision

Vision Statement



Zadara Storage enables customers to (store and) extract value from and make complex decisions based on massive amounts of data by providing scalable data storage that is quick and easy to set up in any number of locations, for rapid ingestion and processing.

Roadmap



Roadmap Highlights 2018-2019

Already Released

Archive Pools

Security Compliance

Large Drives

SMB Inflight Encryption

Multiple Custom Networks

1. Up to 200 TB Pools/Volumes
2. ISO27001, HIPAA, GDPR
3. 4TB SSD's, 10TB HDD's
4. Secure SMB protocol
5. Connects VPSA's to different networks

Coming Now

Flash Optimized

New HW platform

Object Storage Enhancements

Built-in Anti-Virus

New Provisioning Portal

1. Deduplication/Compression
2. Skylake/3D NAND/Optane/NVMe
3. Encryption/Erasure Coding/Life Cycle
4. McAfee Integration
5. Performance Metering
6. Usability Enhancements

Discovery

Volumes QoS

Micro Services












Cloud NAS

NVMe Over Fabric BackEnd

Cloud Analytics Service

1. Volume guaranteed performance
2. Data processing at the "edge"
3. Global file System
4. Fast interconnect
5. Central Monitoring
6. Object Storage Remote Mirroring

Zadara Offerings

Drives	Product	Performance	Cost	Use Cases
 SSD	VPSA Flash Optimized			General Purpose File System, Virtualized Computing
 HDD SSD	VPSA Storage Array (with Flash Cache)			General Purpose File System
 HDD	VPSA Storage Array			General Purpose File System
	VPSA Object Storage			Backup, Archive, Static Data, Media Files, Big Data

VPSA Flash Optimized

- New Storage Nodes
 - Intel next generation processors, Optane super fast cache, NVMe
- Data Reduction Technology
 - Compression
 - Deduplication
 - On average 75% saving (depending on data)
- On the same Zadara cloud
 - Side by side with existing VPSA



More about that:
Zadara's Flashy New Offering
Tuesday @ 1:45 pm

Object Storage Enhancements

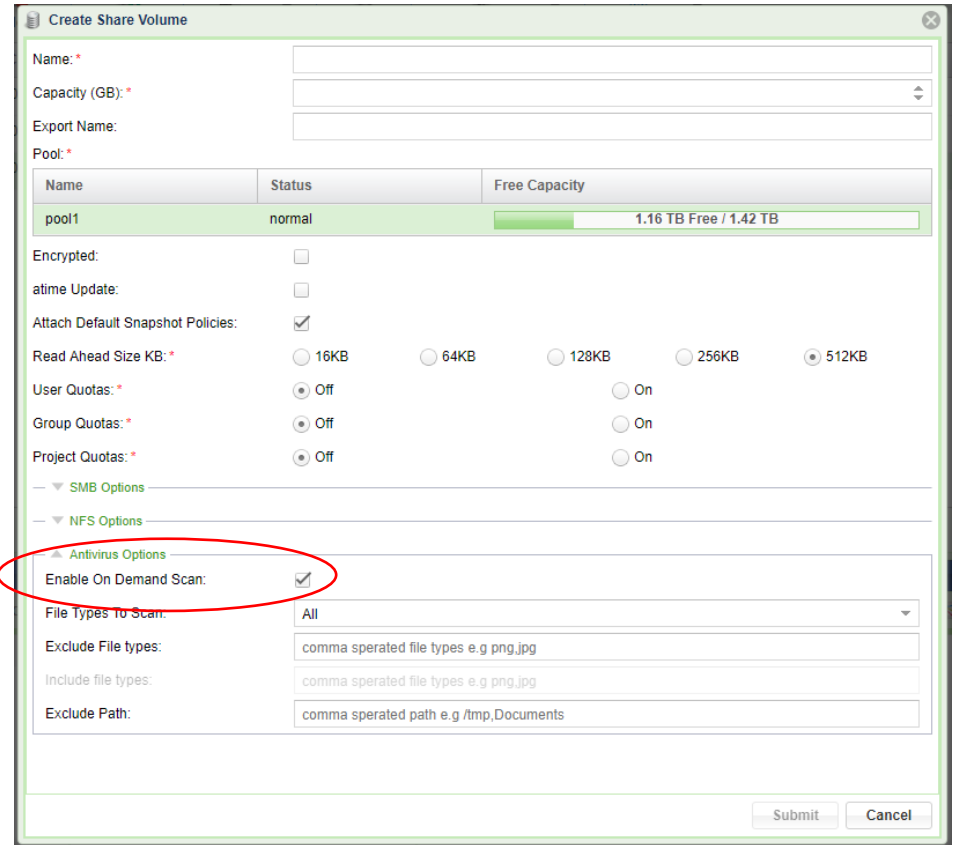
- Availability Zones
- Erasure Coding
- Lifecycle Management
- Encryption
- Versions

More about that:
Object Storage: Why Should I Care?
Wednesday @ 11:15 pm

Anti-Virus Service - McAfee

- Fully Integrated
- Just a click away
- Based on McAfee AV engine

More about that:
A New Way to Secure Files
Wednesday @ 9:00 am



The screenshot shows the 'Create Share Volume' dialog box with the following fields and options:

- Name: *
- Capacity (GB): *
- Export Name:
- Pool: *

Name	Status	Free Capacity
pool1	normal	1.16 TB Free / 1.42 TB

Encrypted:

atime Update:

Attach Default Snapshot Policies:

Read Ahead Size KB: * 16KB 64KB 128KB 256KB 512KB

User Quotas: * Off On

Group Quotas: * Off On

Project Quotas: * Off On

— SMB Options

— NFS Options

^ Antivirus Options

Enable On Demand Scan:

File Types to Scan: All

Exclude File types: comma sperated file types e.g png.jpg

Include file types: comma sperated file types e.g png.jpg

Exclude Path: comma sperated path e.g /tmp,Documents

Submit Cancel

Monitoring Tools

- VPSA performance
- VPSA dashboard
- Ops Panel

More about that:
Monitoring the VPSA Health
Wednesday @ 2:45 pm

More about that:
Behind the Scenes of Zadara Operations
Wednesday @ 4:45 pm

Improvements-Enhancements-Fixes

- Dual factor authentication
- Automatic RAID groups and pools creation
- Many more.... check the release notes (support.zadarastorage.com)

Disclaimer



- * This roadmap is a plan based on what we know today. It is provided for informational purposes only.
- * This roadmap is subject to change and Zadara Storage does not guarantee the features or release dates.
- * The information in this document is Zadara Storage confidential.



ANY
QUESTIONS
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THANK YOU!

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