

End User perceptions, opinions, and needs for secondary storage

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Agenda



- Facts and Views 2021
- A bit of Predictions for 2022
- The Survey
- Other Reports
- Trends and Conclusion

Facts and Views 2021



- Facts and Views 2021 from 26 vendors
 - 1. Several major disasters and outages for cloud providers with the OVHcloud scandal or several outages at AWS, Azure and Google.
 - 2. Clear progress of a cloud operating model also considered for on-premises deployments.
 - 3. All-flash data center for block, file and object storage for bare-metal, VM and container-based applications. Some people even speak about Flash + Tape.
 - 4. Ubiquitous presence of S3.
 - 5. NVMe, NVMe-oF (TCP...) with expectations around PCle Gen 5 and CXL Disaggregated infrastructure.
 - 6. Cloud-native applications with persistent or stateful requirements (CSI).
 - 7. Modern Data Protection (MDP) with cloud, SaaS and cloud-native applications but also VM and bare metal, Ransomware, CDP & versioning plus Air Gap.
 - 8. Security at all levels, deeply integrated with block, file, object and tape storage and data management layers. Tape libraries extension with isolation techniques to prevent cyber-attack propagation.
 - 9. LTO-9 capacity disappointment (18TB instead of 24TB), watch the IBM/Fujifilm 540TB tape development.
 - 10. DNA storage, Glass, Holographic and other long-term data preservation technologies.
 - 11. M&As like HPE/Zerto, Arcserve/StorageCraft, DataCore/Caringo & MayaData, Quantum/Pivot3 and EnCloudEn...
 - 12. IPOs like BackBlaze, OVHcloud...
- More details at https://www.storagenewsletter.com/2022/01/04/storage-in-2021-facts-news-trends-confirm-ations-and-winners/

Predictions for 2022



- Predictions from 53 vendors
 - By far, the #1 prediction is related to cloud and edge in all its forms, hybrid and multi, coupled with the operating and charge model.
 - 2. Second topic is represented obviously by **cybersecurity** and its strong threat **ransomware**. It comes after 2021 when there have been significant attacks.
 - 3. Very close we identified **Al/ML** and **GPU** and everything related to **Data Protection** at large.
 - **4. Object storage** and especially used in the container Kubernetes environments.
 - 5. and finally cloud-native, container and Kubernetes.
- Full report available at <u>https://www.storagenewsletter.com/2022/01/11/predictions-of-storage-vendors-for-2022/</u>

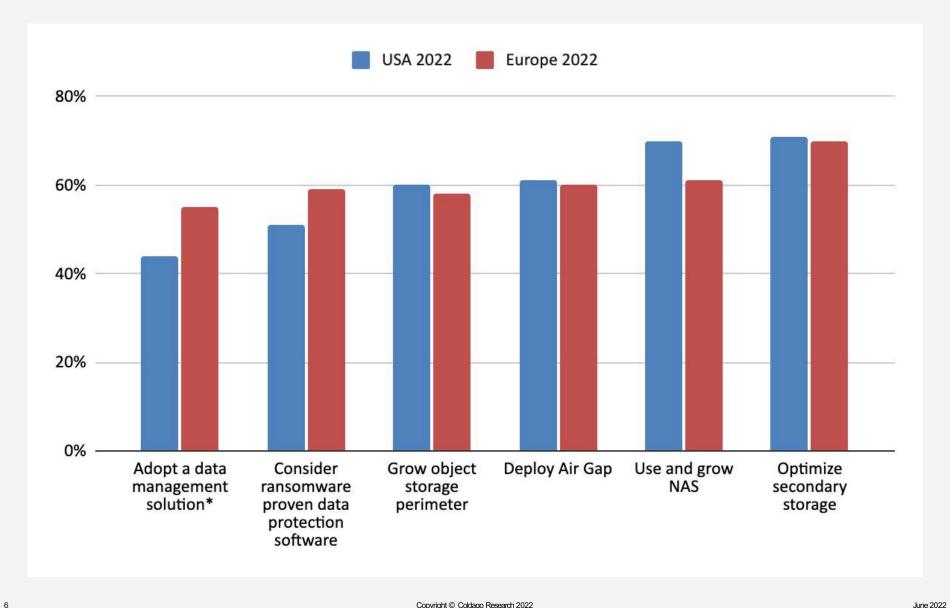
The Survey



- Target: End-Users
 - 1509 US users
 - 857 European users from UK, Germany and France (~1/3)
 - Enterprise & SMB (~1/2), no Hyperscalers or Research Centers
 - Cross verticals
- Date: April-May 2022
- Topics: technology adoption, projects priorities, products/features needs and opinions
- Part 1: Primary Storage, Block & File storage, Container storage, Data Management
- Part 2: Secondary Storage, Object & Tape storage, DM suite
- Availability: June 30, 2022, downloadable R⊞ to use

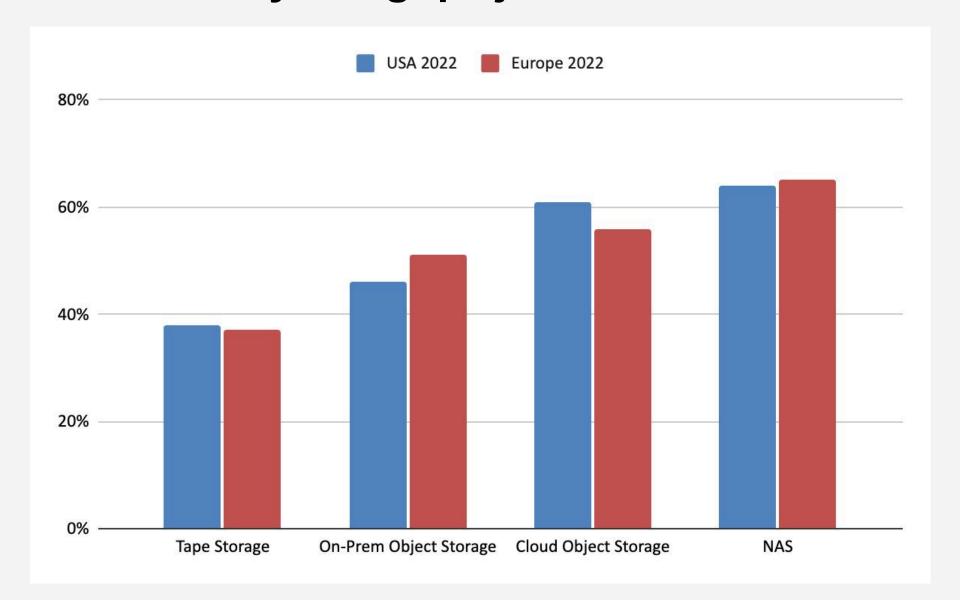
What are your top 3 priorities in secondary storage (and data management) for 2022?





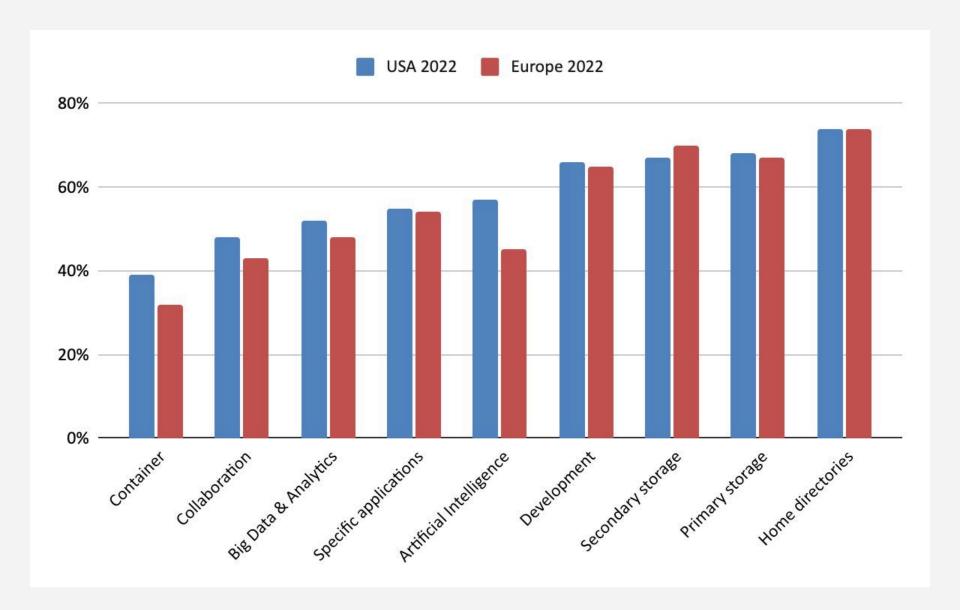
What are the technologies you consider for new secondary storage projects in 2022?





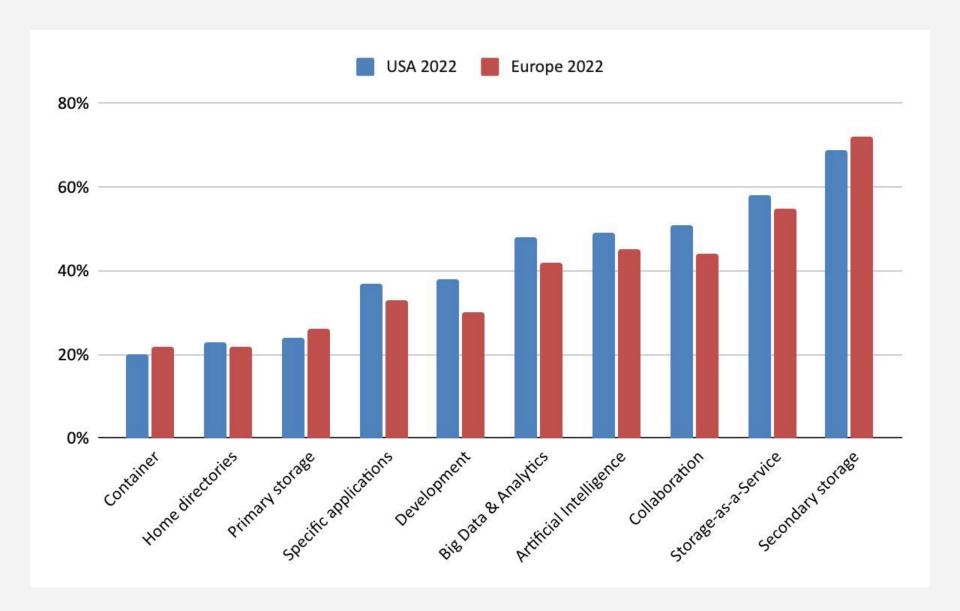
What are your use cases for file storage?





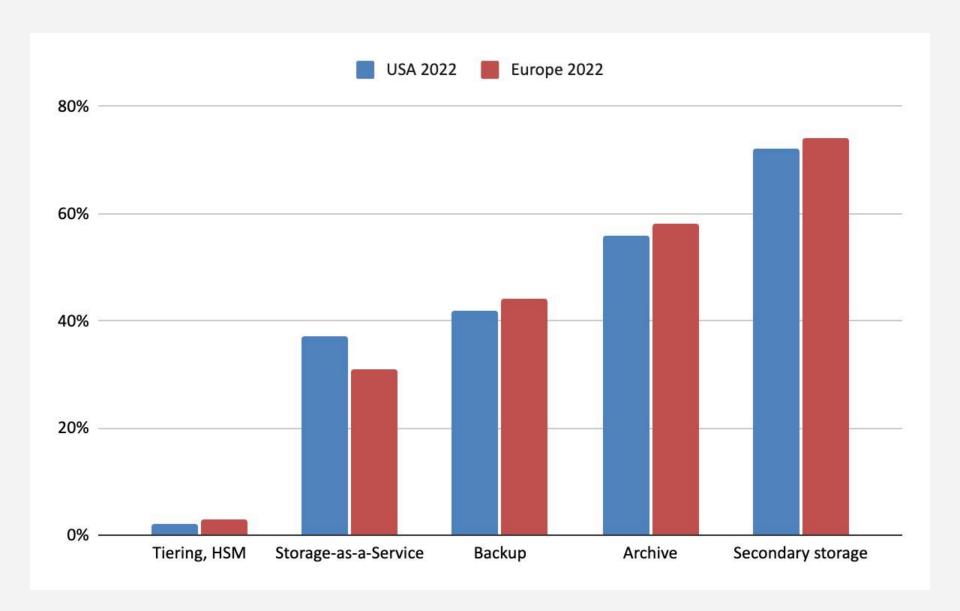
What are your use cases for object storage?





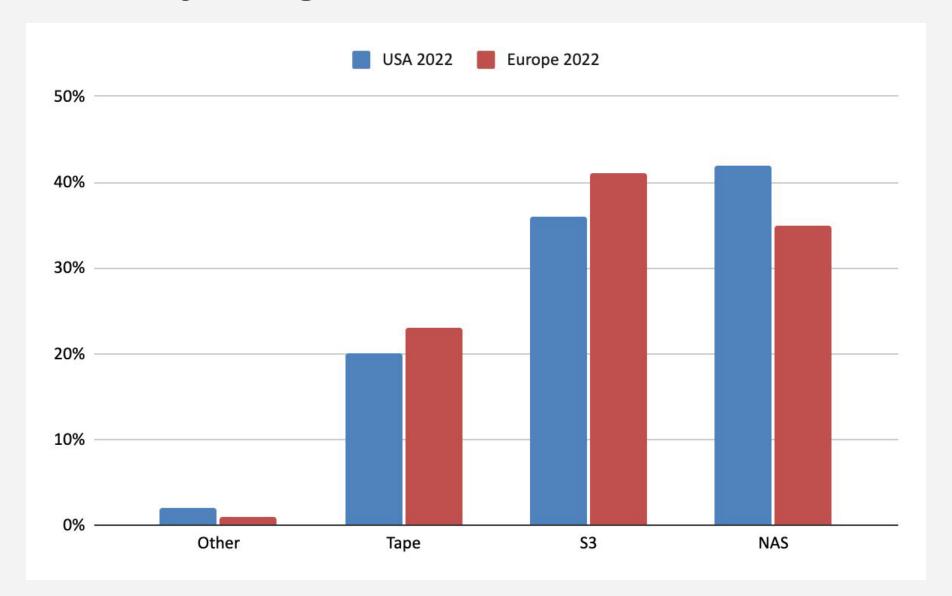
What are your use cases for tape storage?





What is your preferred access methods for secondary storage?

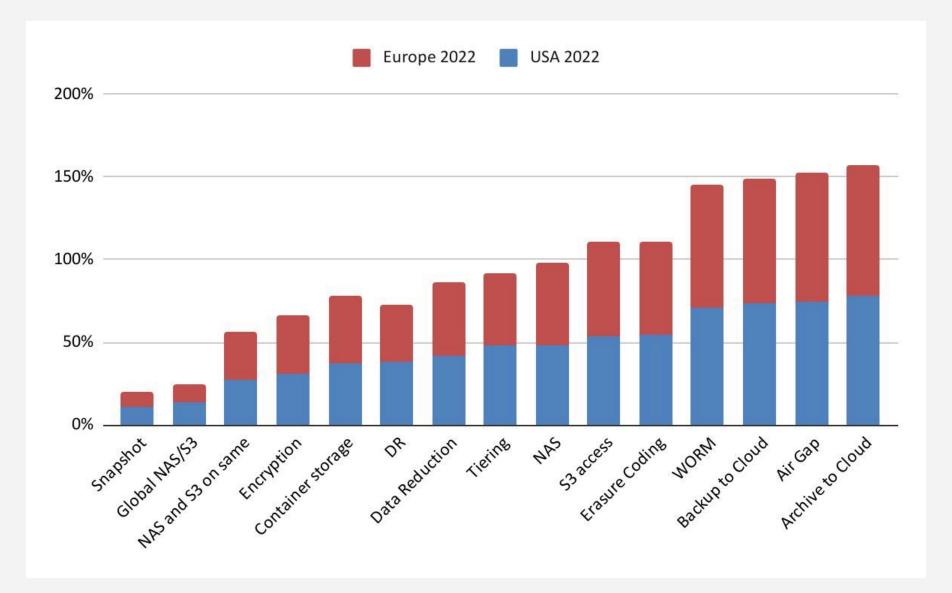




What are the features you need and think you will deploy in 2022?

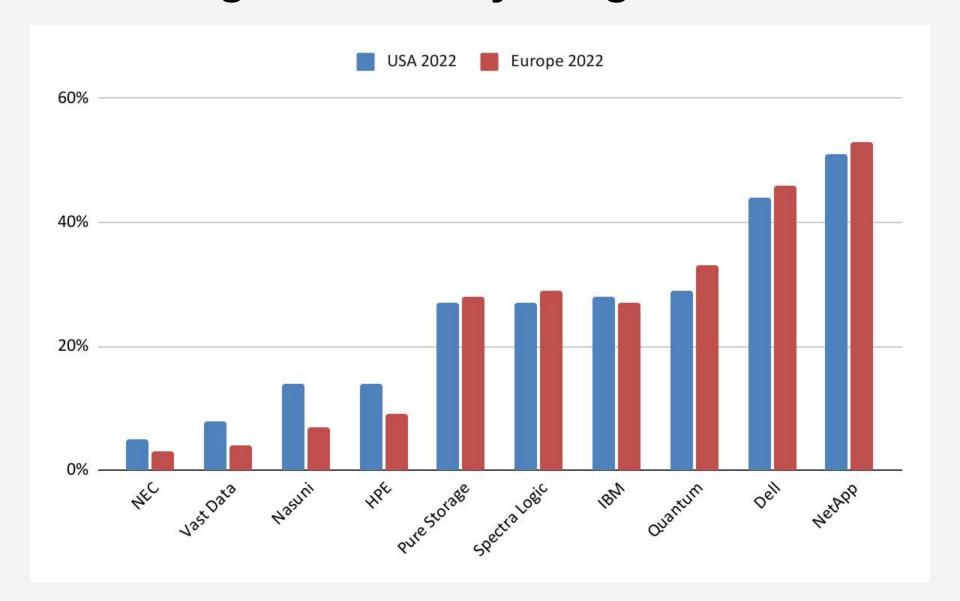


June 2022



What are the top 3 brands you will consider in file storage for secondary storage?

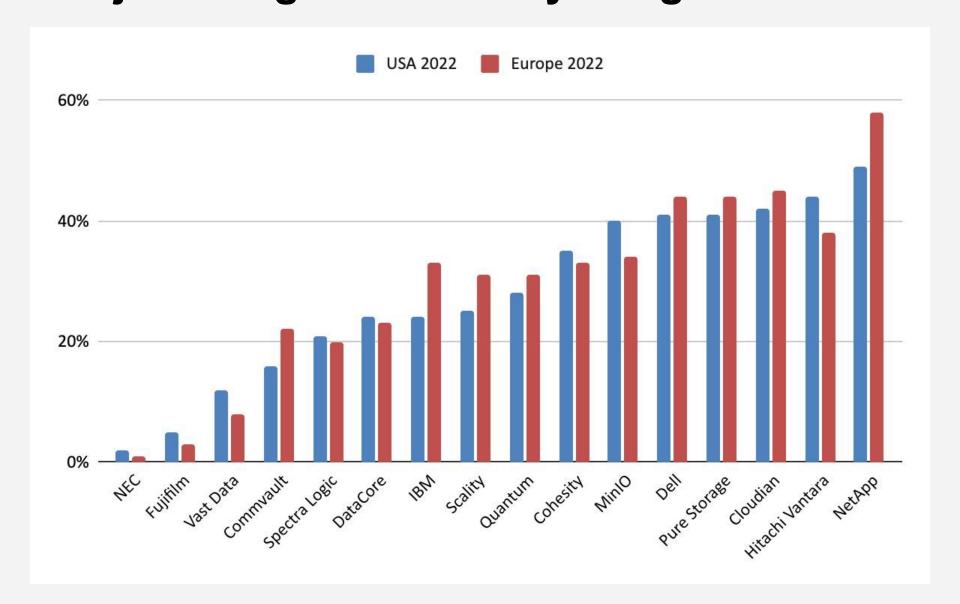




What are the top 3 brands you will consider in object storage for secondary storage?

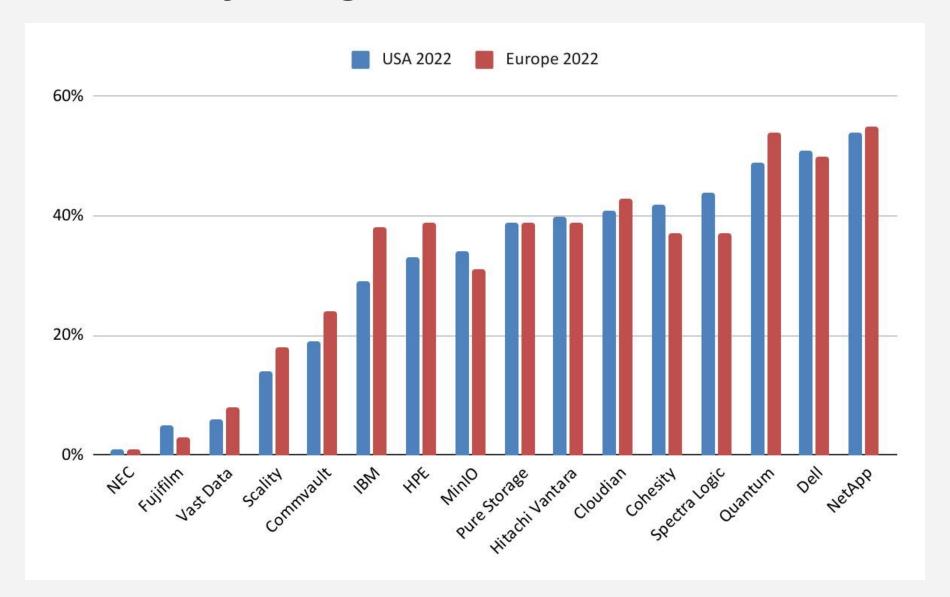


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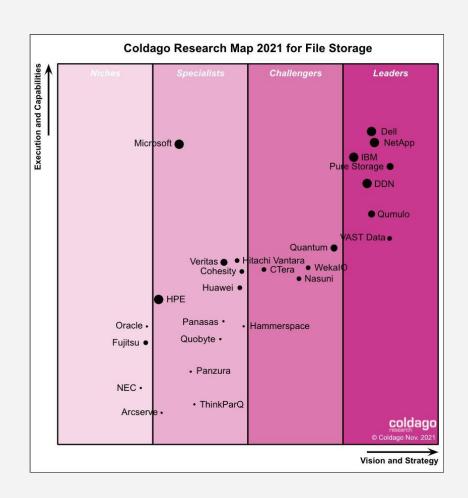
What are the top 3 brands you will consider in secondary storage?

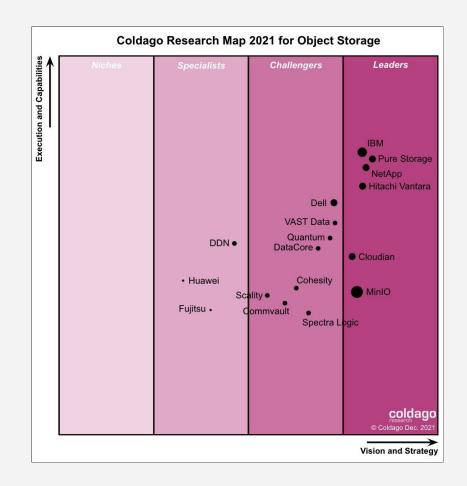




The Maps







Conclusion



- June 30, 2022 for the complete study at coldago.com
- Directions and Topics to follow for Secondary Storage
 - Cloud in all dimensions (Core, Edge...)
 - Cybersecurity and ransomware anf globally Data Protection
 - Kubernetes and Storage for Container
 - File and Object Storage

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