

Red Hat OpenShift

Data Foundation

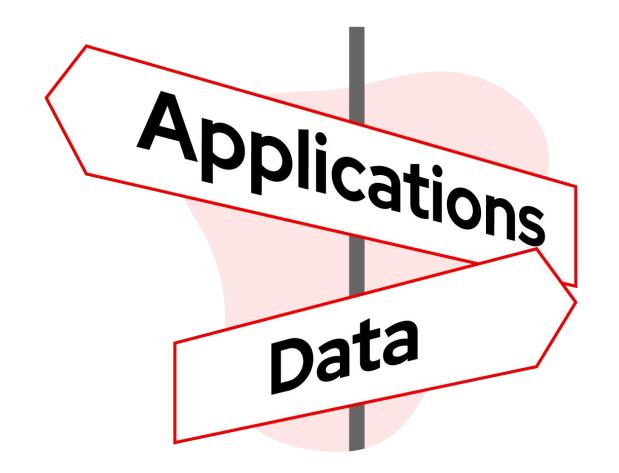
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Data needs to be stored somewhere

That's driving the adoption of containers

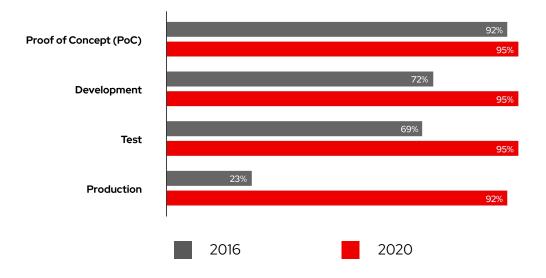
91%

ARE USING KUBERNETES

Businesses are using Kubernetes to

- Drive automation
- Improve efficiencies
- Increase application agility

Container adoption is accelerating





The trouble with cloud-native environments

Key questions users need to address

SECURITY

How is that data...



...secured?



...protected from loss?

ACCESS

How is that data...



...found?



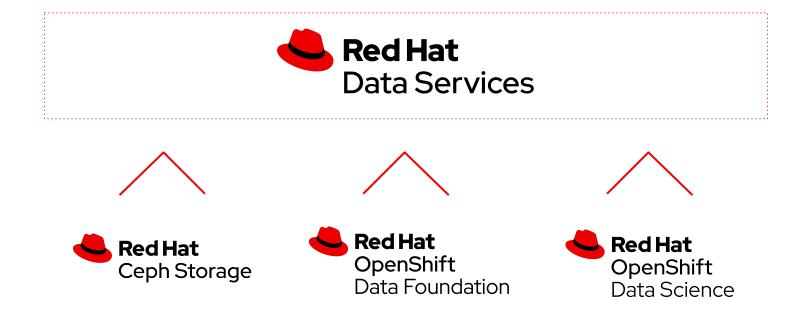
...audited?



...controlled?



Introducing Red Hat Data Services





Unlock the value of data









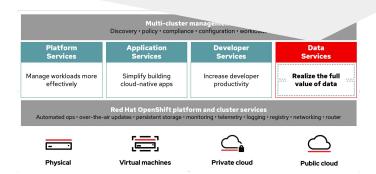
How Red Hat Data Services fits

Multi-cluster management Discovery • policy • compliance • configuration • workloads **Platform Application** Developer Data services services services services Manage workloads Simplify building Increase developer Realize the full more effectively cloud-native apps productivity value of data Red Hat OpenShift platform and cluster services Automated ops • over-the-air updates • persistent storage • monitoring • telemetry • logging • registry • networking • router Virtual **Physical** Private cloud **Public cloud** machines



The Red Hat Data Services opportunity







Red Hat Data Services in a nutshell











- Erasure coding
- Compression
- Performance

- Snapshots
- Clones
- Backup
- Recovery
- Business continuity
- Disaster recovery

- At rest encryption
- In flight encryption
- Key management
- WORM
- Auditing
- Compliance
- SEC & FINRA
- GDPR

- Cataloging
- Tagging
- Search



Data Services: A change of mindset





- Focus on improving efficiency
- Infrastructure-up view
- Poor performance at scale
- Disconnected
- Manual, monolithic and rigid

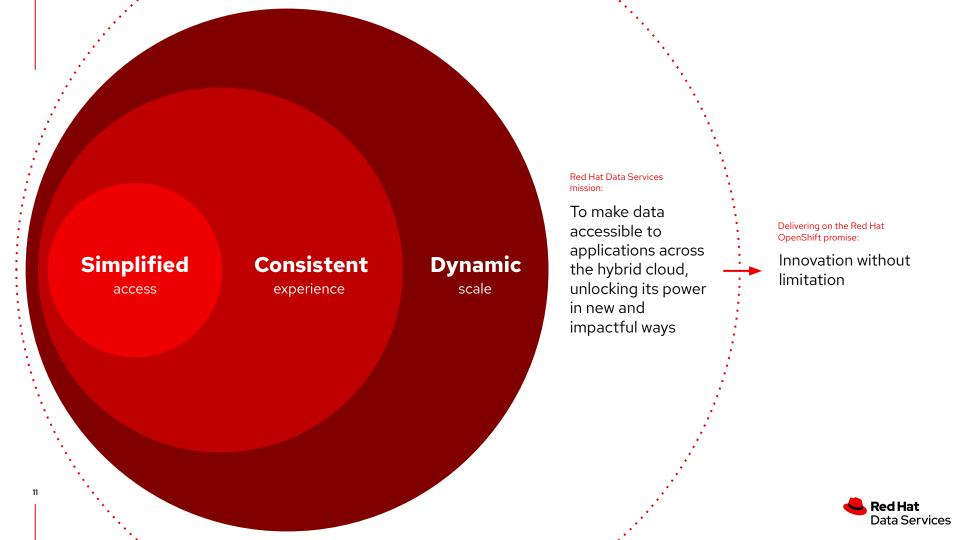




Dynamic, data services approach

- Focus on innovation
- Application-oriented view
- Highly scalable
- Always-on
- Automated, on-demand, and flexible





Data is the most significant asset in today's businesses—give it data services



- Data services focuses on infrastructure and application needs so they can run and interact with ease and efficiency
- Data services provides a foundational layer for applications to function and interact with data in a simplified, consistent and scalable manner
- Red Hat Ceph Storage is a foundational component to drive data services



What Data Services means for developers/data scientists

Traditional, static approach



- Must visit the library, again and again
- Strictly limited usage, with limited content on offer
- Can only check out a few items at a time

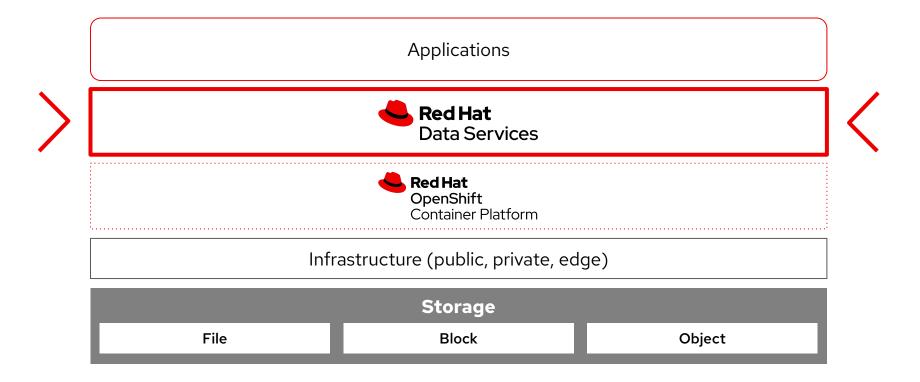
Data services approach



- Access to data from anywhere, indefinitely
- Simultaneous access to a wide range of content, and almost unlimited usage
- Self-service—no need for manual supervision



The Red Hat Data Services stack





Data resilience with Red Hat OpenShift Data Foundation

FUNCTIONALITY

Greater control and manageability with over 15 new functionality features.



SECURITY

Enhanced protection with data encryption and external key management by Key management service.



PERFORMANCE

Reduced downtime with consistent experience, dynamic scale and faster handling of data.



EFFICIENCY

Improved productivity thanks to simplified and faster access to data.





Data resilience with Red Hat OpenShift Data Foundation

FUNCTIONALITY



SECURITY



PERFORMANCE







Data resilience with Red Hat OpenShift Data Foundation

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Data resilience with Red Hat OpenShift Data Foundation

FUNCTIONALITY



SECURITY



PERFORMANCE







Data resilience with Red Hat OpenShift Data Foundation

FUNCTIONALITY



SECURITY



PERFORMANCE







Thank you

Red Hat is the world's leading provider of

enterprise open source software solutions.

Award-winning support, training, and consulting

services make

Red Hat a trusted adviser to the Fortune 500.

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