

TFDx - Scality

“Storage for Digital Business”

\*Jerome Lecat, CEO (@jlecat)  
Storage for digital business  
digital transformation for business  
GTM and customers

Self-driving cars

“People aren’t stupid, but they’re very bad at sustaining attention”

the value of human work will tend to zero or infinite  
zero - routine tasks that can be given to an automatic system  
infinite - creativity, artisanship, and care

(almost) every job will change, some won’t  
change: school, healthcare, transport, finance, retail, industrial production,  
democracy and government, storage admin  
won’t: cricket, baseball and soccer, cheese, wine and philly’s cheesesteak,  
plumbers, hair dressers

we’re in a changing world

We keep more and more data, it might have value, cost of losing the data is too big.  
Data per flight - 1TB. 100000 flights per day.

The scality RING is object-based software-defined storage for the cloud  
Run on standard x86 servers and create a giant pool of storage  
protect the data and provide 100% reliable, high performance access for any  
capacity-driven application

“Some servers are better than others”

Customers telling them:  
The “cloudification” of enterprise IT is accelerating  
Enterprise want “multiple clouds”  
Object is the best for large capacity storage, and S3 is the standard API  
Files are integral part of enterprise IT  
DevOps influence infrastructure choices

Implemented S3 for the first time in 2010

116 customers so far  
50% North America, 35% EMEA, 15% APAC  
[TFDx - Scality - Customers.tiff]

Telstra listed as a customer

Alliances - HPE, Dell, Cisco, AWS  
70 development engineers

\*Paul Speciale - VP of products, Scality  
[TFDx - Scality - RING 6.0.tiff]

RING 6.0 - focus on “enterprization”

S3 Connector - Enterprise Deployments  
easy deployment  
secure multi-tenancy and data at rest  
directory services federation  
utilisation reporting and management

[TFDx - Scality - Easy container based deployment.tiff]  
Easy Deployment Model  
all services deployed uniformly as Docker Containers  
Full scale-out: any s3 request can be handled by any S3 connector (“any-to-any”),  
standard IP load balancing and failover  
Vault Service

Metadata Service

[TFDx - Scality - Comprehensive IAM multi-tenancy and encryption.tiff]  
AWS Identity and Access Management (IAM)

Bucket-level Encryption

[TFDx - Scality - Federated Access SSO to S3.tiff]  
Requires a SAML 2.0 Compatible IdP

IdP provides mapping from Enterprise Directory Server (AD)

Vault enables SSO via SAML assertion

[TFDx - Scality - S3 Utilization Reporting and Management.tiff]  
Stats and management framework

Published RESTful APIs for monitoring and management

Management tools

[TFDx - Scality - S3 Metadata - the scale-out engine of the connector.tiff]  
Metadata Service

The hard part

High-availability and Performance

[TFDx - Scality - S3 Connector Scale-out at all levels.tiff]

[TFDx - Scalality - S3 On-ramp.tiff]

[TFDx - Scalality - Open Source S3 server.tiff]

Demo

Summary

S3 Server & S3 Connector

provide a seamless transition from “free” test/dev single-server to full scale-out deployments

small to large deployments from local storage to full RING

simple to deploy via Docker containers

Comprehensive Enterprise Deployment Features

Multi-tenancy

Active Directory SSO/federation

Storage for digital business

powering major enterprise and service provider clouds worldwide