

STORAGE DEVELOPER CONFERENCE



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BY Developers FOR Developers

A  SNIA Event

Designing Multi Storage Infrastructure in Cloud Deployment

Cloud Multi Storage

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Common trends

Multi cloud

Hybrid cloud

Edge computing/Telco

Data Regulation

Cloud security

What all we need from our cloud deployment?



MACHINE
LEARNING



PROACTIVE
MONITORING



ANALYTICS



FASTER
INTEGRATION



FASTER TIME
TO INSIGHTS



DATA AT ONE
PLACE



INVENTORY



BILLING

Different data storage strategy

Purpose driven storage configuration

Data lake/pool

Storage for cluster of services

App specific storage

In-memory database

NFS/CIFS

Solution Vendor agnostic storage



Data lake

Challenges in data lake concept



Used for all incoming data



Increases day to day



Capacity planning is important



Data purging policy is required

Storage for cluster of services

A domain specific storage





In-memory storage

Faster performance

Discovery service can use it to enable discovery faster

Best choice for performance critical services

Replication and persistence

High availability and scalability

high throughput

NFS

Obvious choice

NFS

- Most of the cloud deployment has NFS enabled
- Centralized management
- Easily share files across services
- Pipeline can control
- Bringing external NFS

Silver Bullet?

Silver Bullet

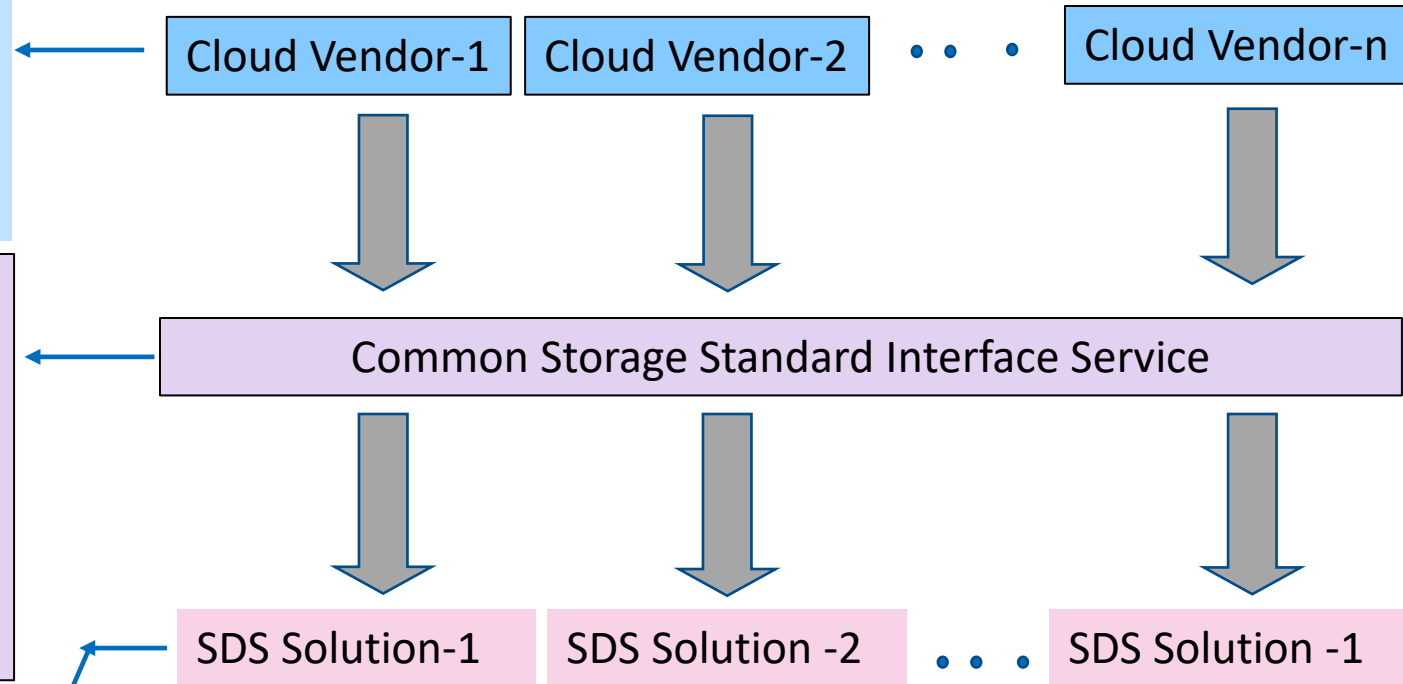
- Platform and cloud solution agnostic approach
- Support On-Prem, Telco, Edge storage solution
- Will seamlessly address application storage needs like block, file, in-memory
- Need for common standard interface
- These interfaces will be consumed by various cloud vendors like AWS, Google, Azure, VMware and also by On-prem, Telco, Edge cloud vendors
- These Interfaces will be application agnostic
- These interfaces will be implemented by SDS vendor solutions

Conceptual Diagram

1. Customer can use their exiting cloud Solution/App frameworks
2. This can be Edge/Telco/On-prem/ Public cloud solutions
3. This can be any Application type which requires block, file, In-memory

1. This is the proposed layer, which offers standard set of Interfaces to be consumed by various cloud/on-prem solutions.
2. This can be hosted on Platform vendor offerings.
3. This offers data storage path based to various cloud/Application based on app need
4. Provides seamless data sharing to various apps

1. These are various storage offering from platform vendor which suites data storage options for various app data i.e. file, block, in memory...





Thanks



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