



BY Developers FOR Developers

Storage Developer Conference
September 22-23, 2020

Unified Heterogeneous Storage Monitoring: Is delfin a way Forward ?

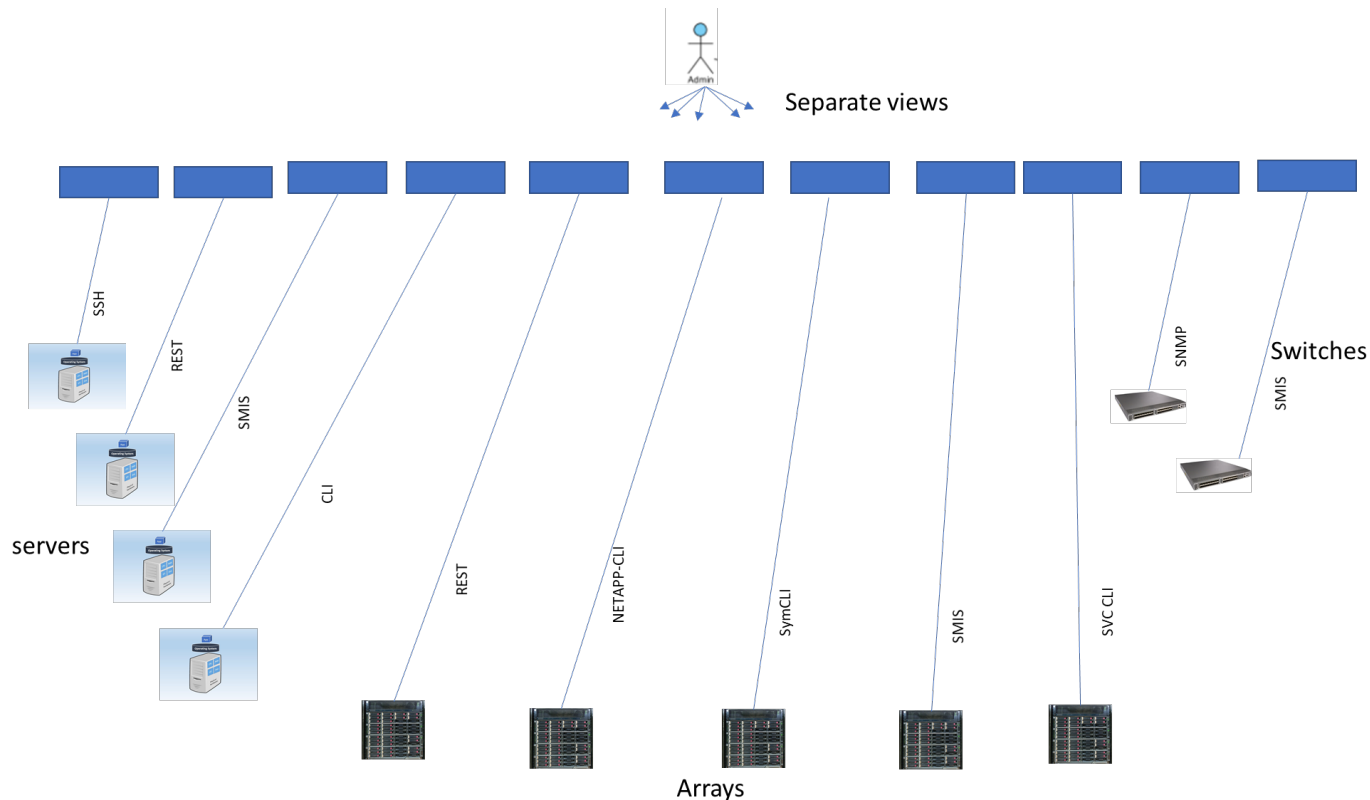
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Agenda

- Heterogeneous Infrastructure - Challenges
- Need for Unified Monitoring and Alerting
- SODA
 - an open source unified autonomous data framework that connects data end to end
- Delfin
 - A SODA project for Monitoring and Alerting

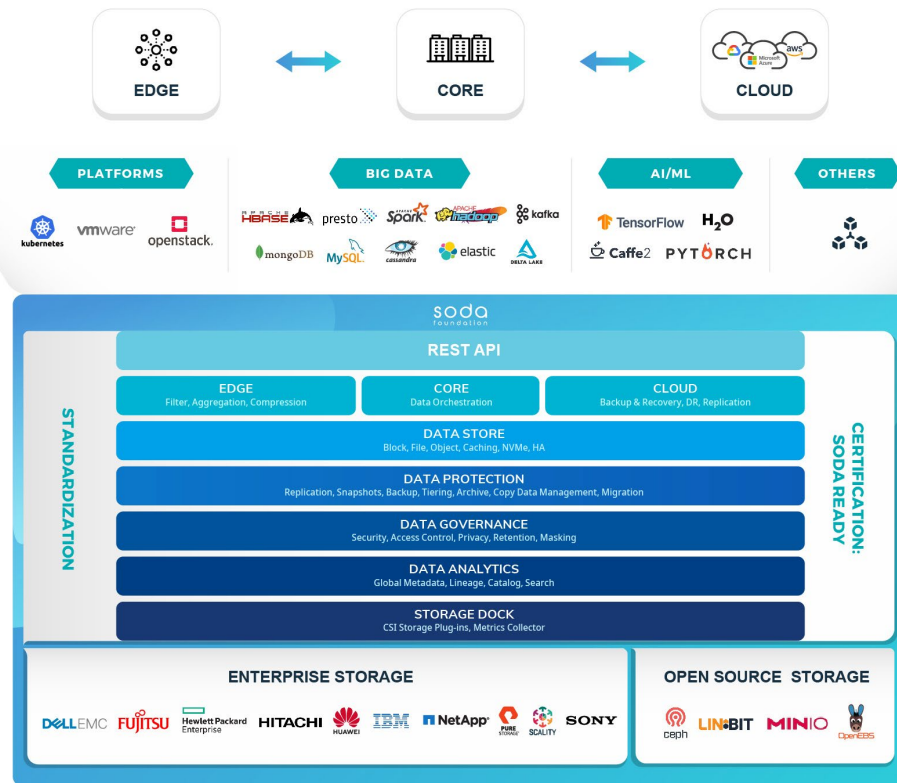
Heterogeneous Infrastructure - Challenges



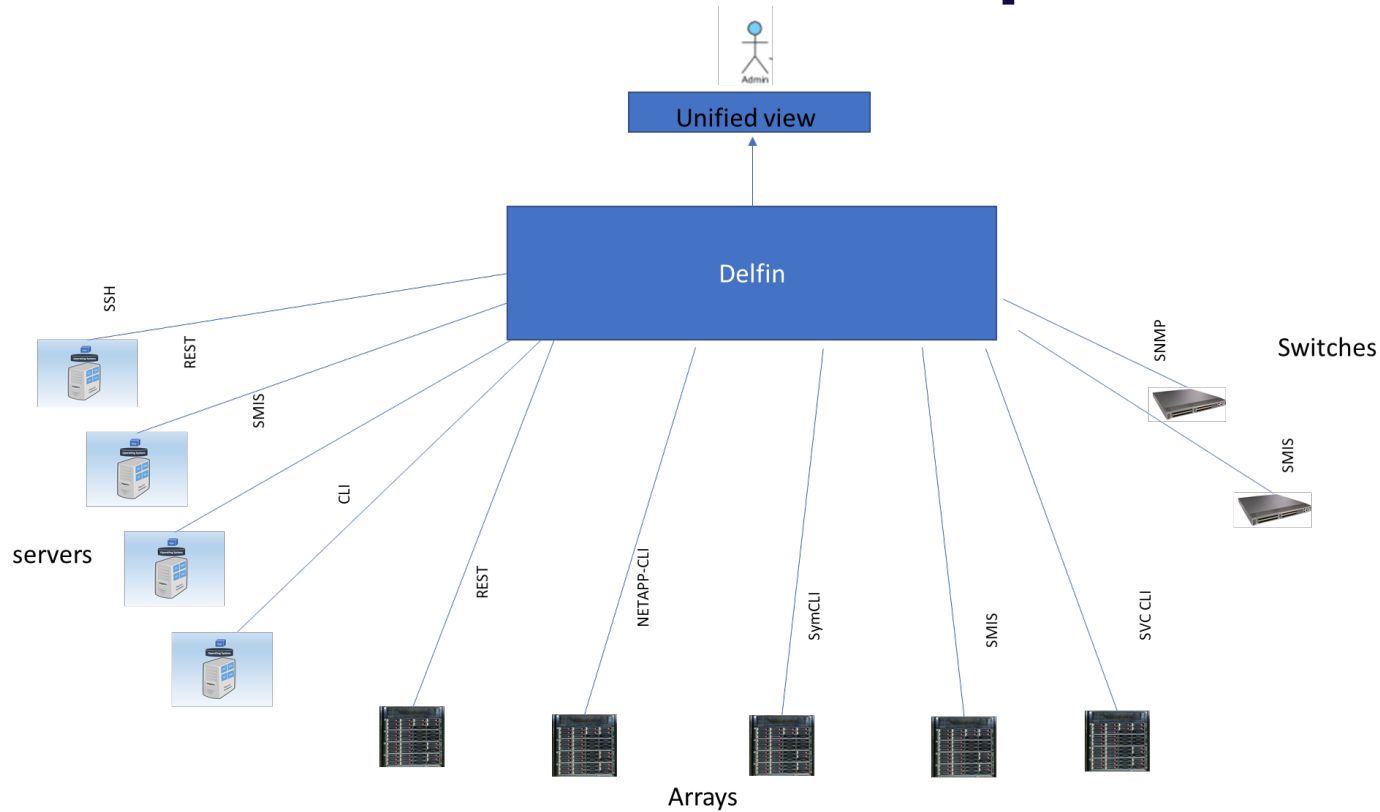
Need for Unified Monitoring and Alerting

- Capacity trend analysis
- Capacity purpose analysis
- Service level optimization
- Spot performance bottle necks
- Unified Alert source

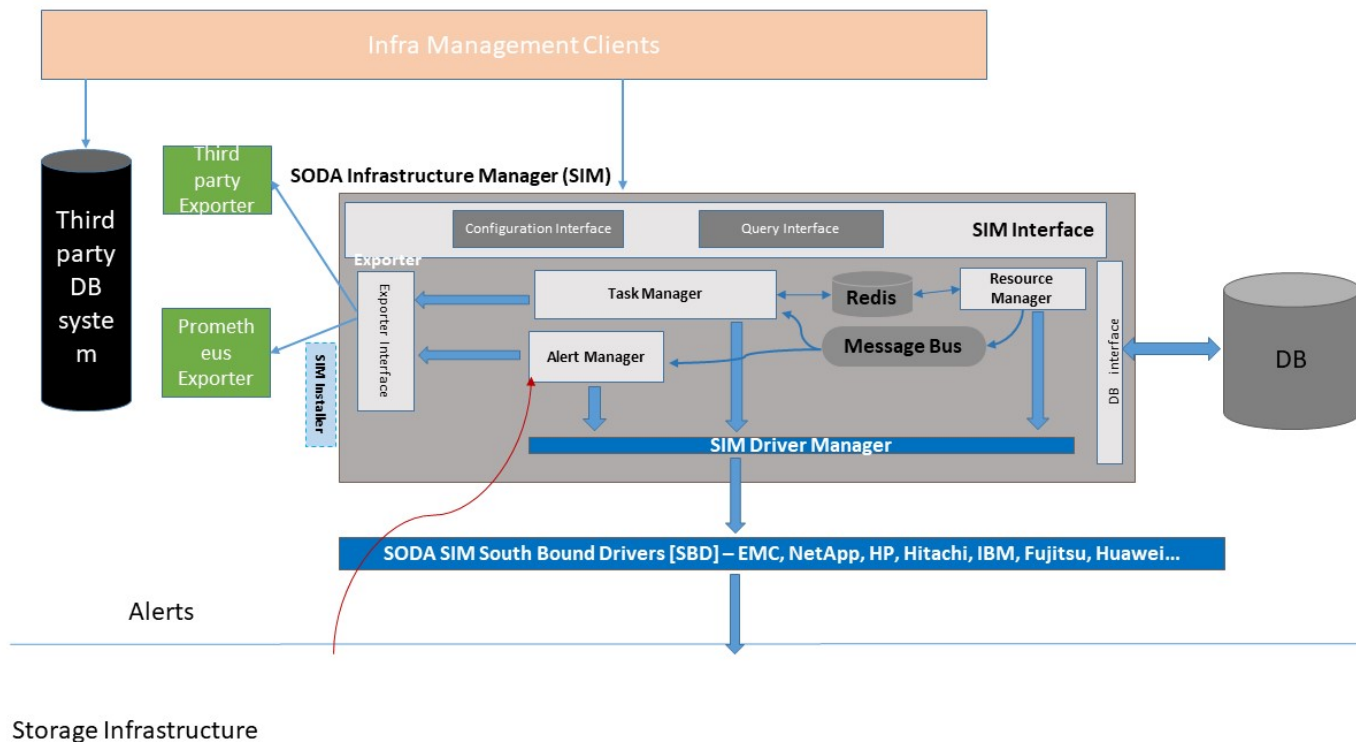
SODA: An open source unified autonomous data framework that connects data end to end



Delfin – A unified platform



Delfin – A SODA project for Monitoring and Alerting



Unified Data Model-Volume

Attribute	Data Type	Unit	Enumerated Value	Description	Version
id	uuid(36)			Indicates the delfin system resource ID.	
name	string(255)			Name	
description	string(255)			Description	
status	enum			Status	
			normal	Normal	
			offline	Offline	
			abnormal	Fault	
type	enum			Logical Type	
			thick	Common LUN	
			thin	Thin LUN	
wwn	string(255)			WWN	
total_capacity	integer	Bytes		Total Capacity	
used_capacity	integer	Bytes		Used Capacity	
free_capacity	integer	Bytes		Available Capacity	
compressed	boolean			Whether deduplication is supported	
deduplicated	boolean			Whether to support compression	
native_volume_id	string(255)			LUN ID on the device	
native_storage_pool_id	string(255)			Specifies the ID of the owning storage pool on the device.	
storage_id	uuid(36)			Storage: id in the delfin system	

Unified Interfaces

Storages

GET /v1/storages

POST /v1/storages

GET /v1/storages/{storage_id}

DELETE /v1/storages/{storage_id}

Storage Pools

GET /v1/storage-pools

GET /v1/storage-pools/{id}

AlertSource

GET /v1/storages/{storage_id}/alert-source

PUT /v1/storages/{storage_id}/alert-source

DELETE /v1/storages/{storage_id}/alert-source

Alerts

DELETE /v1/storages/{storage_id}/alerts/{sequence_number}

Volumes

GET /v1/volumes

GET /v1/volumes/{id}



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