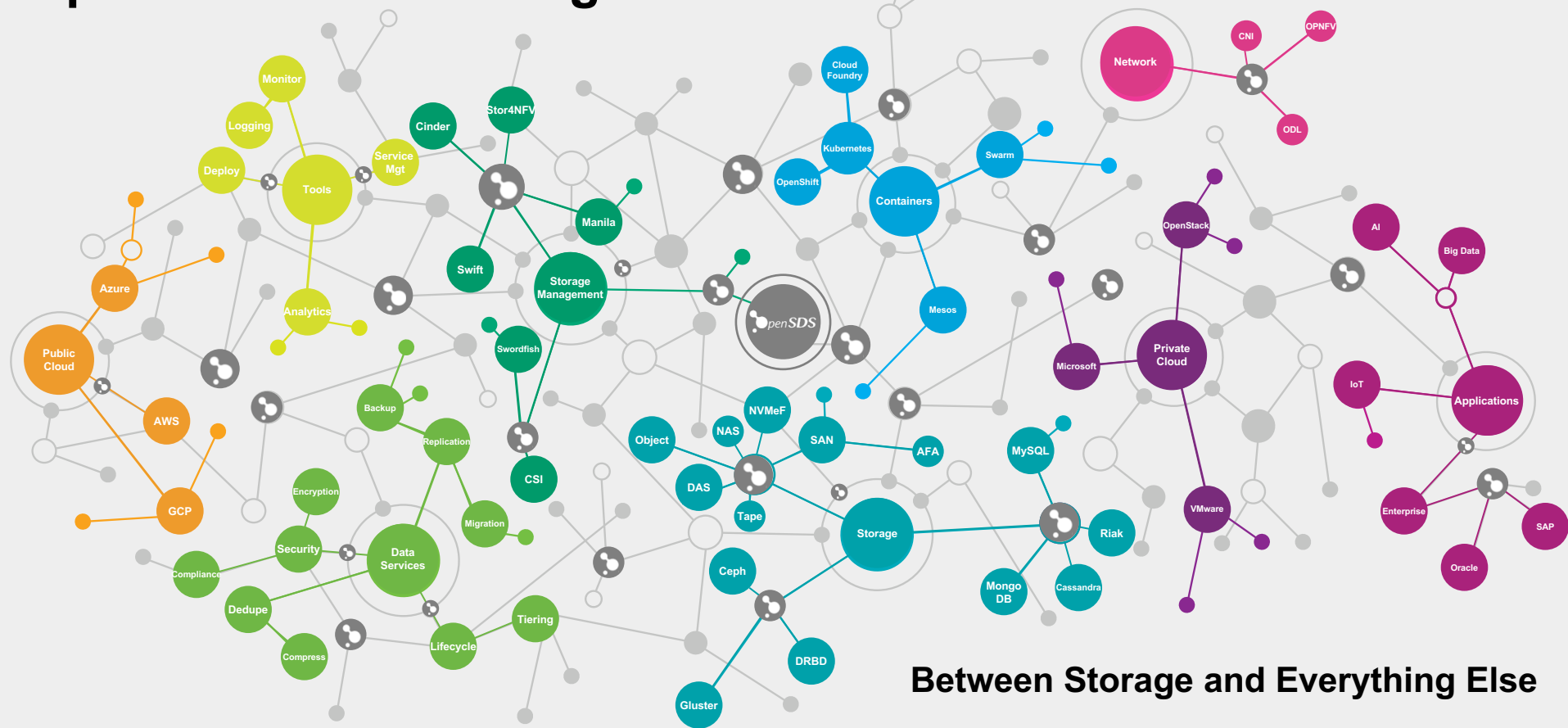


# OpenSDS - Connecting The Dots...



**Between Storage and Everything Else**

# The Core Projects

## SUSHI

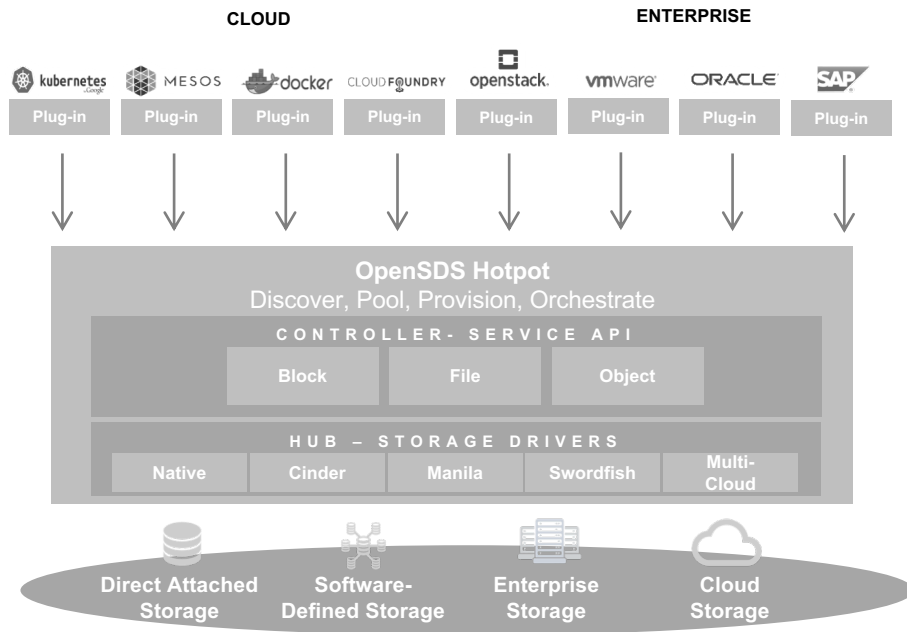
### The Northbound Plug-ins Project

Common plug-ins to enable OpenSDS storage services for cloud and application frameworks

## HOTPOT

### The Storage Controller Project

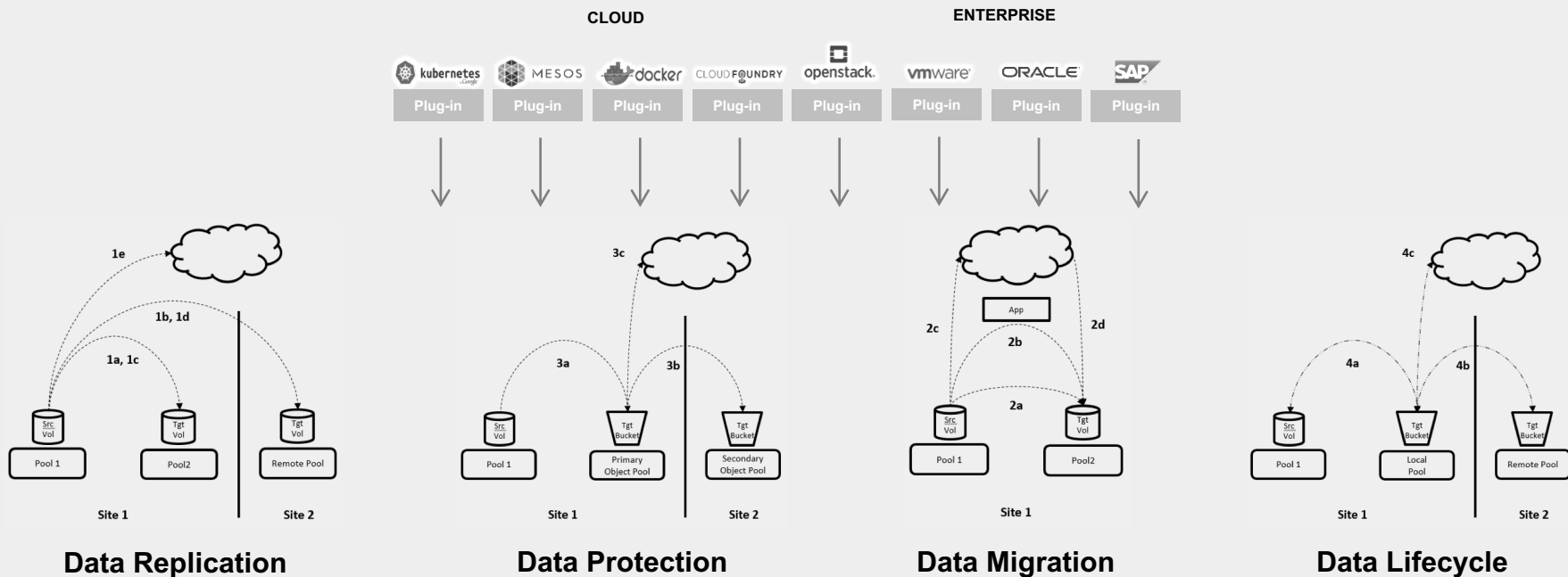
Single control for block, file, and object services across storage on premise and in clouds



# Beyond The Basics

# Storage Orchestration

Built-in advanced **automated storage and data services** that respond to any compute frameworks in a common way across traditional data centers, private and public clouds



# Storage Intelligence

A standardize way to monitor the environment and its components, analyze the collected data using machine learning and AI, and **automatically tune the storage infrastructure** to optimize for performance, efficiency, and cost

## Monitor



- Metrics
- Metering
- Alerts
- Logs

## Analyze



- Root Cause Analysis
- Failure Prediction
- Performance Trends
- Capacity Planning

## Optimize

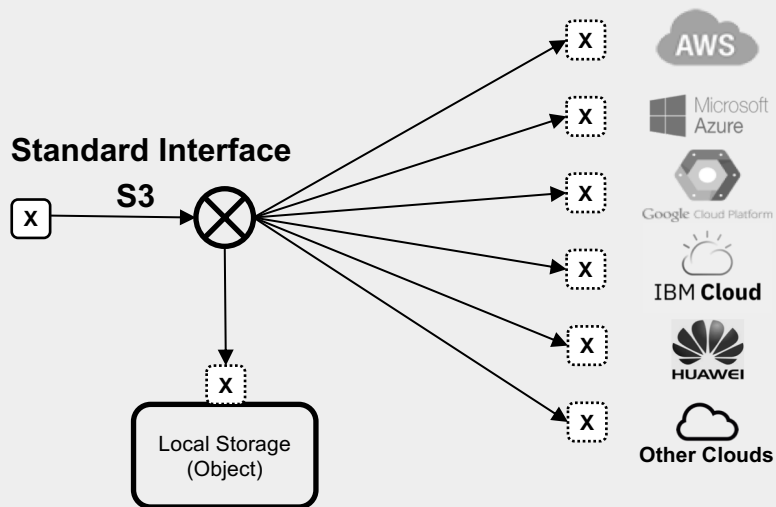


- Capacity Optimization
- Performance Tuning
- Cost Management
- Energy Efficiency
- Load Balancing

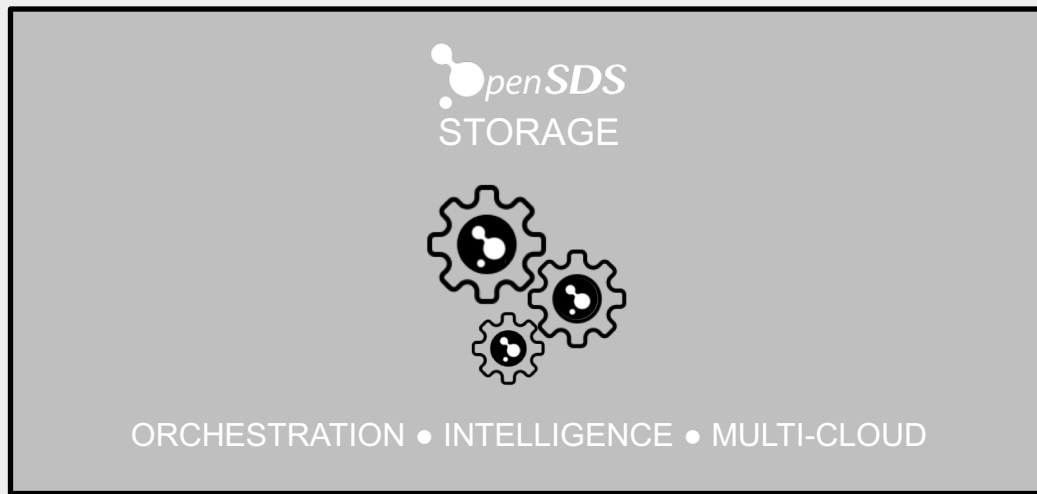
Standardize API's For Monitoring, Analysis And Optimization

# Storage Multi-Cloud

**Policy-based data mobility** across private and public clouds, for availability, tiering, bursting, backup, archive and DR

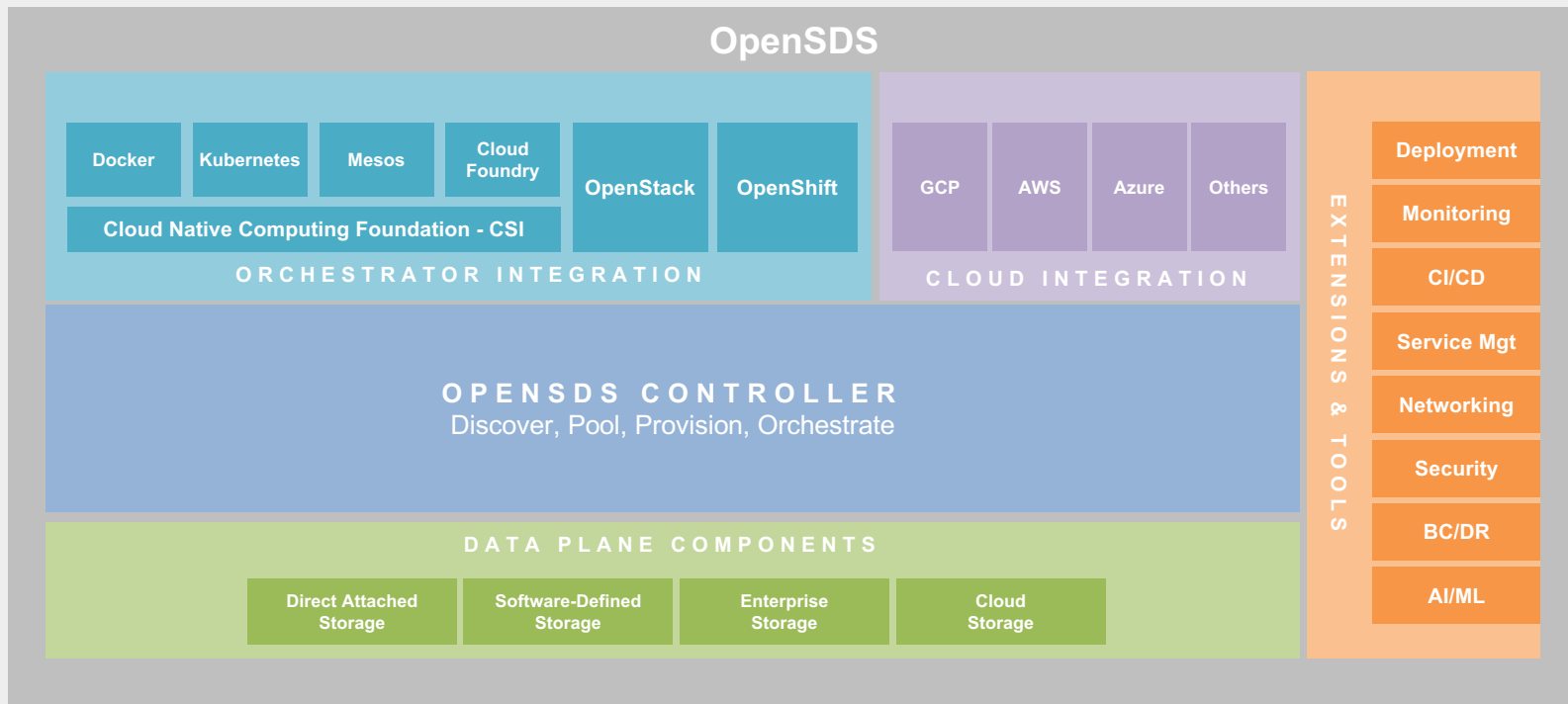


- Vol image, snapshot, file, object
- Policy-based placement
- Put object to multiple clouds at the same time
- Get object on demand
- Global search



# Run Applications Without Thinking About Storage

# Project Framework





# Goals

## Open

Standardized open software, services, and application framework

- No vendor lock-in
- Not under the control of a single or small group of companies
- Accelerate development with shared components

## Real

Designed for real world use

- Solve common end-user pain points
- Optimize storage operations and utilization
- Deploy in traditional or cloud-native environments

## Ready

Enable an ecosystem of 'OpenSDS Ready' suppliers

- Mix and match 'OpenSDS Ready' hardware, software, UI, services, and apps
- Hit the ground running with new projects



# OpenSDS Roadmap v0.14

## 2017H2 ZEALAND

### Storage For Kubernetes

- Kubernetes FlexVolume
- Vol CRUD
- Standalone Cinder Integration
- CSI Support
- Ceph, LVM

## 2018H1 ARUBA

### Storage Orchestration

- OpenStack
- Replication Array-Based, Host-Based
- Dashboard
- Virtual Pools
- Storage Profiles
- NVMeoF preview
- Enumeration
- Block Storage
  - Ceph
  - LVM
  - IBM: XIV, Storwize, SVC
  - Huawei: Dorado

## 2018H2 BALI

### Storage Multi-Cloud

- Data Migration Offline, Online\*
- Monitoring
- Multi-OpenStack
- S3 Object
- Multi-Cloud Control
- NVMeoF
- Storage Groups Snapshots, Replication
- CSI Mesos\*, Docker\*
- Swordfish Dell-EMC, NetApp

## 2019H1 CAPRI

### Storage Intelligence

- Analytics
- Lifecycle
- Data Protection
- File Share

## 2019H2++

- Performance
- Optimization
- Tiering
- Security
- Sharing
- Networking
- SCM

<https://github.com/opensds>

# OpenSDS

## A Linux Foundation Project

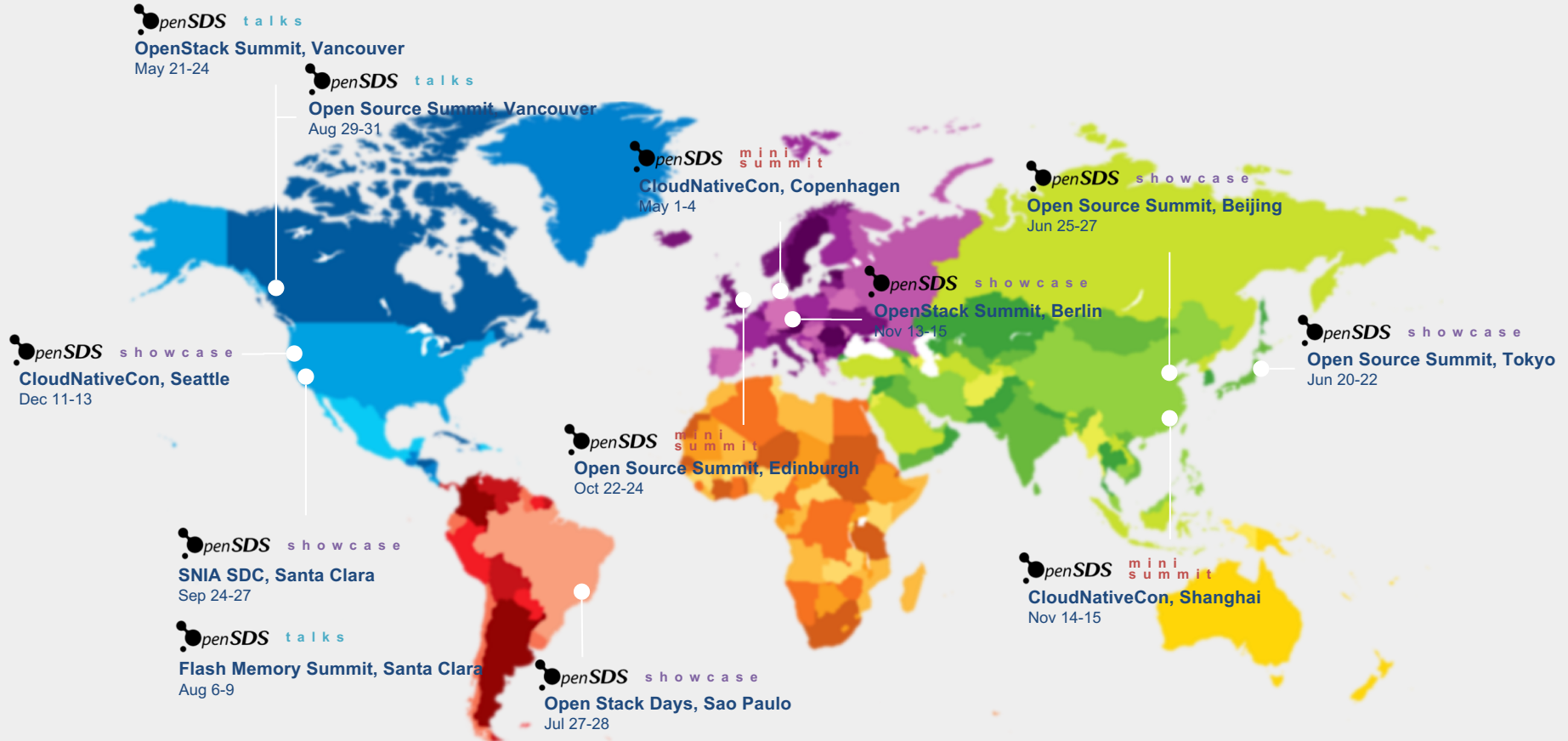
An industry-wide open source project for  
software-defined storage management



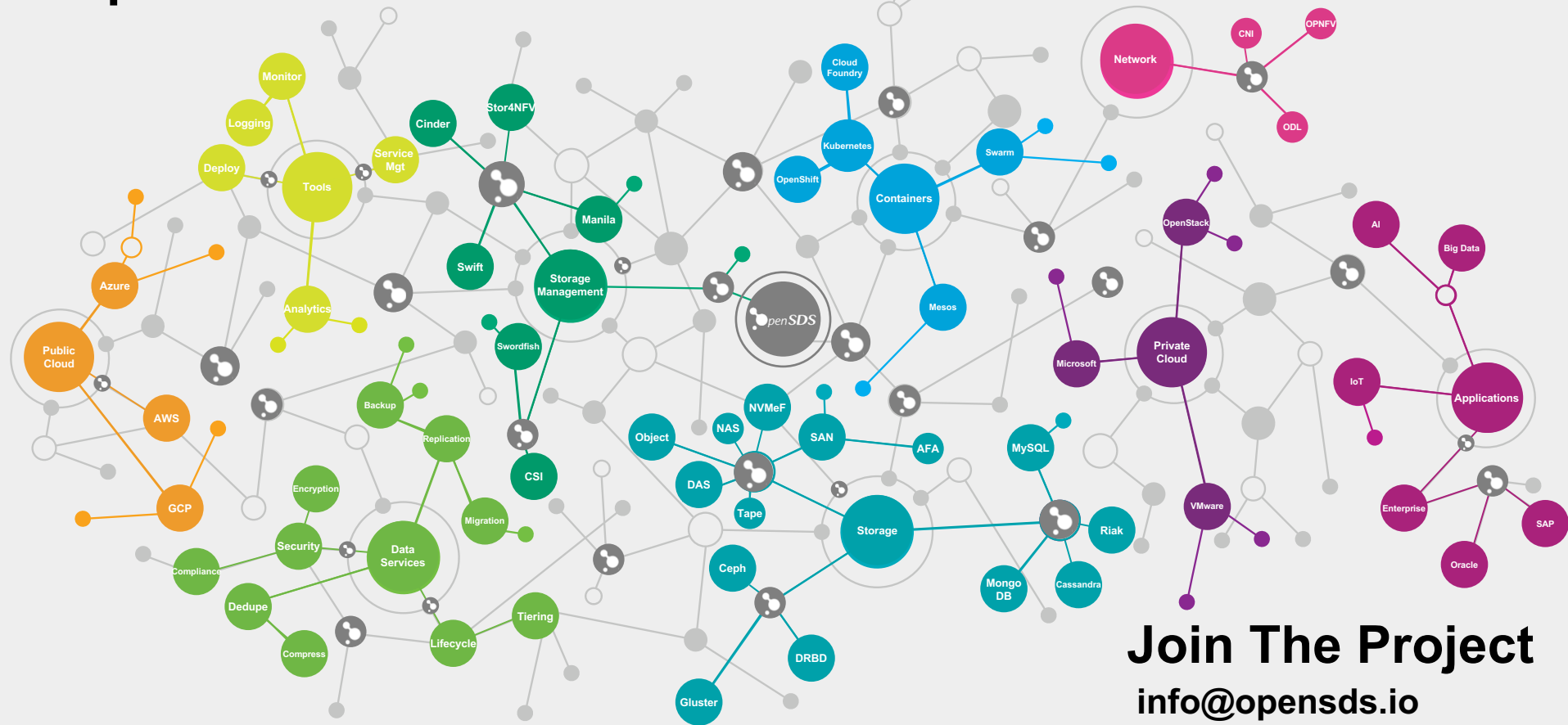
OUR NEWEST MEMBER



# OpenSDS 2018 Events



# Help Us Connect The Dots...



**Join The Project**  
[info@opensds.io](mailto:info@opensds.io)