



OpenSDS的前世今生

华为IT标准开源社区经理
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存储管理生态的现状——Fragmented

Framework

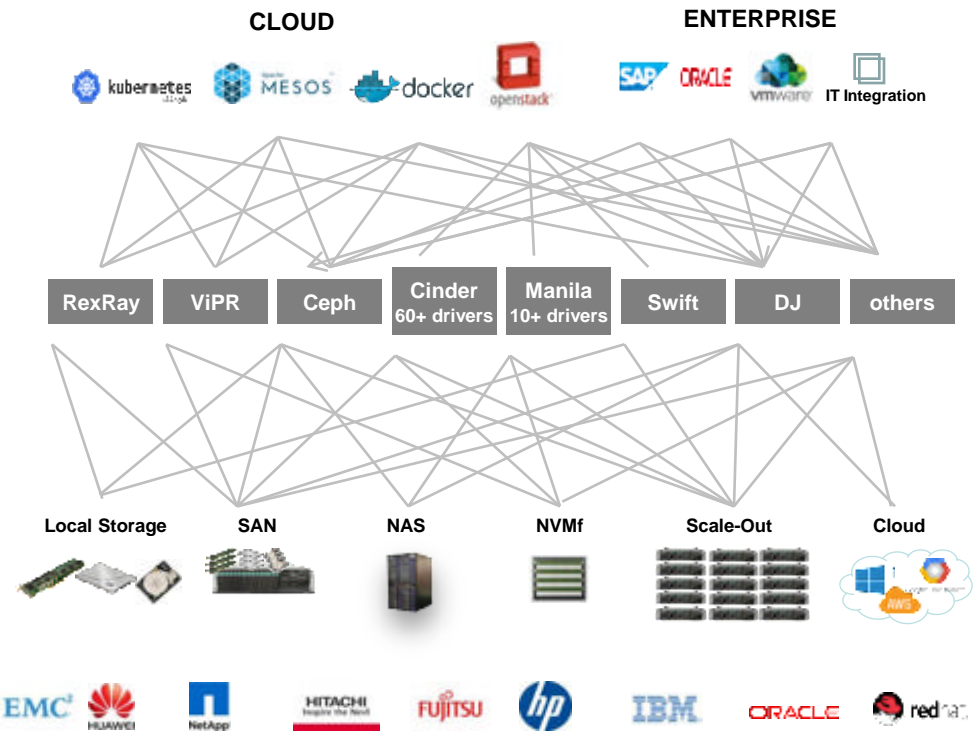
- How to connect storage to a framework?
- How to provision storage for multiple frameworks?

Controller

- Which controller to use for the framework?
- Is my storage supported by the controller?
- Does it allow 3rd-party /IT integration?

Storage

- Is there a storage driver for the controller?
- Will I be able to leverage enterprise storage features?
- Can I use commodity hardware?



存储管理生态的现状——Unmatched

Framework

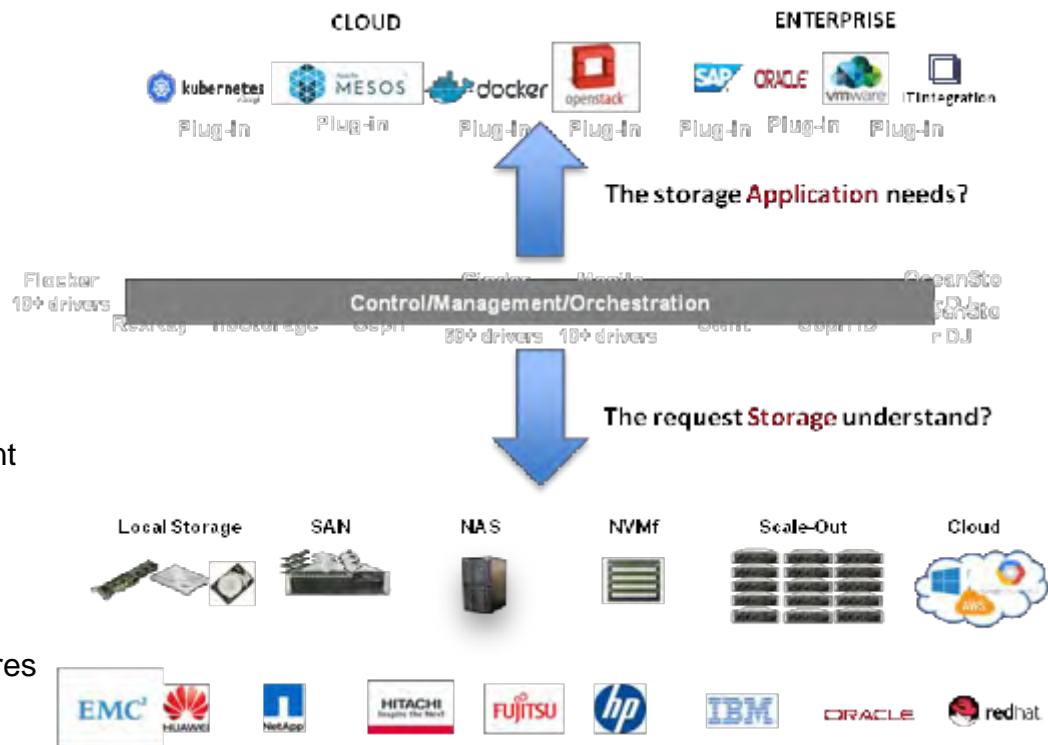
- How to get the storage best fit for the applications?
- How to provision storage based upon application's specific requirement?

Controller

- How to understand requirements from different application?
- How to schedule a best fit storage resource for the application?
- How to translate application specific requirement to the language storage understands ?

Storage

- Do I understand the controller's requests?
- Will I be able to leverage existing storage features to fulfill these requests?
- Am I sds-enabled?





存储管理生态的业界期望

Enterprise Customers

Want a common solution to manage storage needs for both internal and external customers

How about a single SDS controller to connect to all frameworks and storage backends?

Developers

Want a consistent method of consuming storage easily

How about a standard API that abstracts storage complexity?

Vendors

Want to enable their storage everywhere

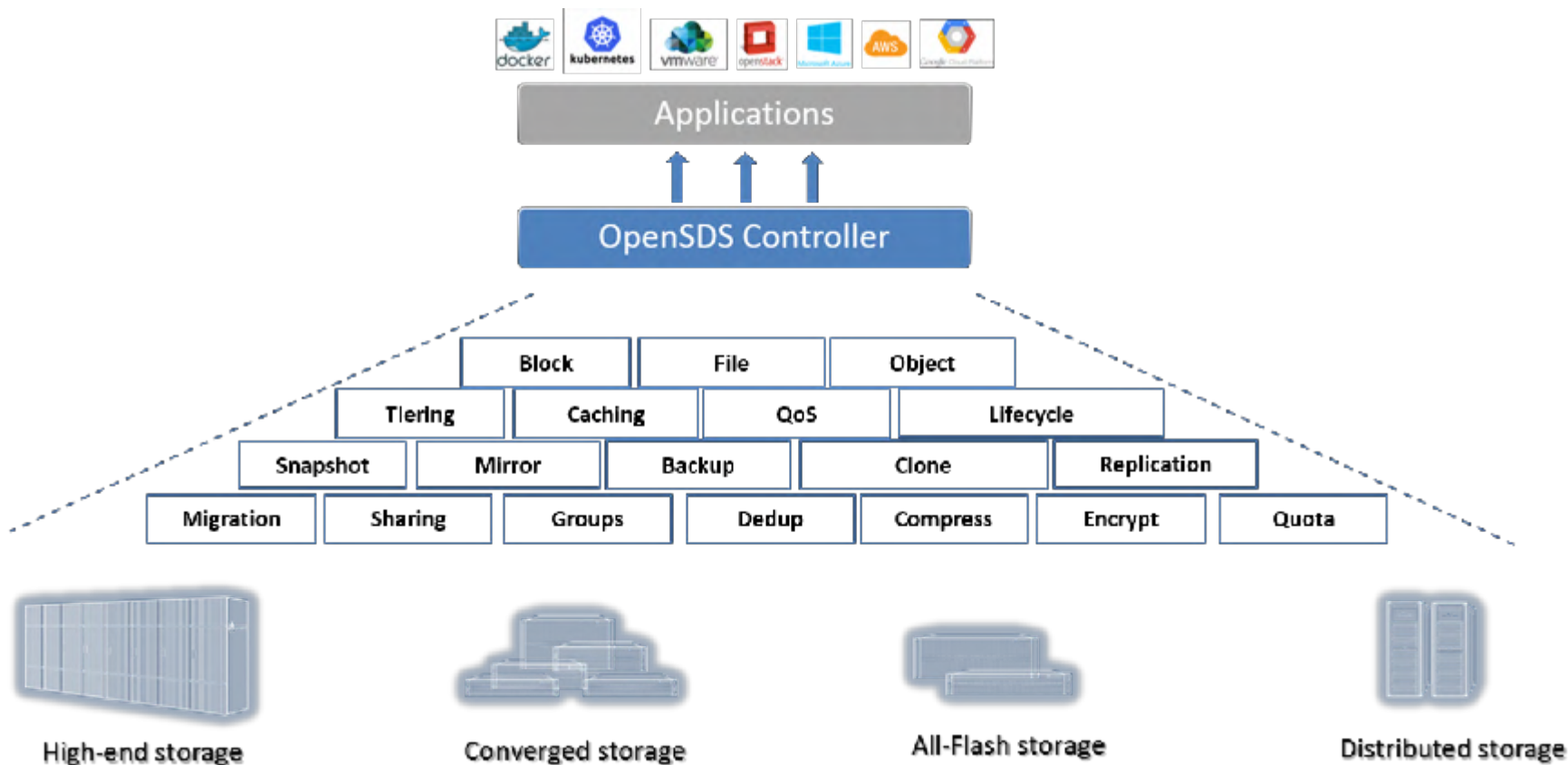
How about standardization of storage controls that works with all frameworks?



前世
今生
未来



初识 OpenSDS——社区(愿景)



初识OpenSDS——社区(历程)

First Contact

Expression of interests

Mar'16

Linux Foundation Proposal

Agreement to form project.
Identify mission and objectives

Aug'16

First Face To Face

Dell-EMC Joins OpenSDS

OpenSDS welcomes Dell-EMC

Dec'16

HDS, Huawei, Fujitsu, Western Digital, Vodafone, OSU

OpenSDS Project Announcement

Beta Release

OpenStack Boston
OSCON Austin
OSS Japan
LinuxCon China

Kubernetes, Docker, Mesos, OpenStack, support

Feb'17

OpenSDS prototype demo and API draft

OpenSDS @CloudNativeCon Berlin

Q3'17





初识 OpenSDS——社区(伙伴)





初识 OpenSDS——社区(开发)

opensds

OpenSDS is an open source software defined storage controller

sds

Go ★ 11 🗑️ 6 Updated 11 hours ago



arch-wg

OpenSDS Architecture Working Group

Updated 4 days ago



opensds-api-specs

OpenSDS API Specifications

Go Updated 18 days ago



proposals

Repository for previous SDS proposed solutions

Go ★ 1 Updated 28 days ago



Top languages

Go

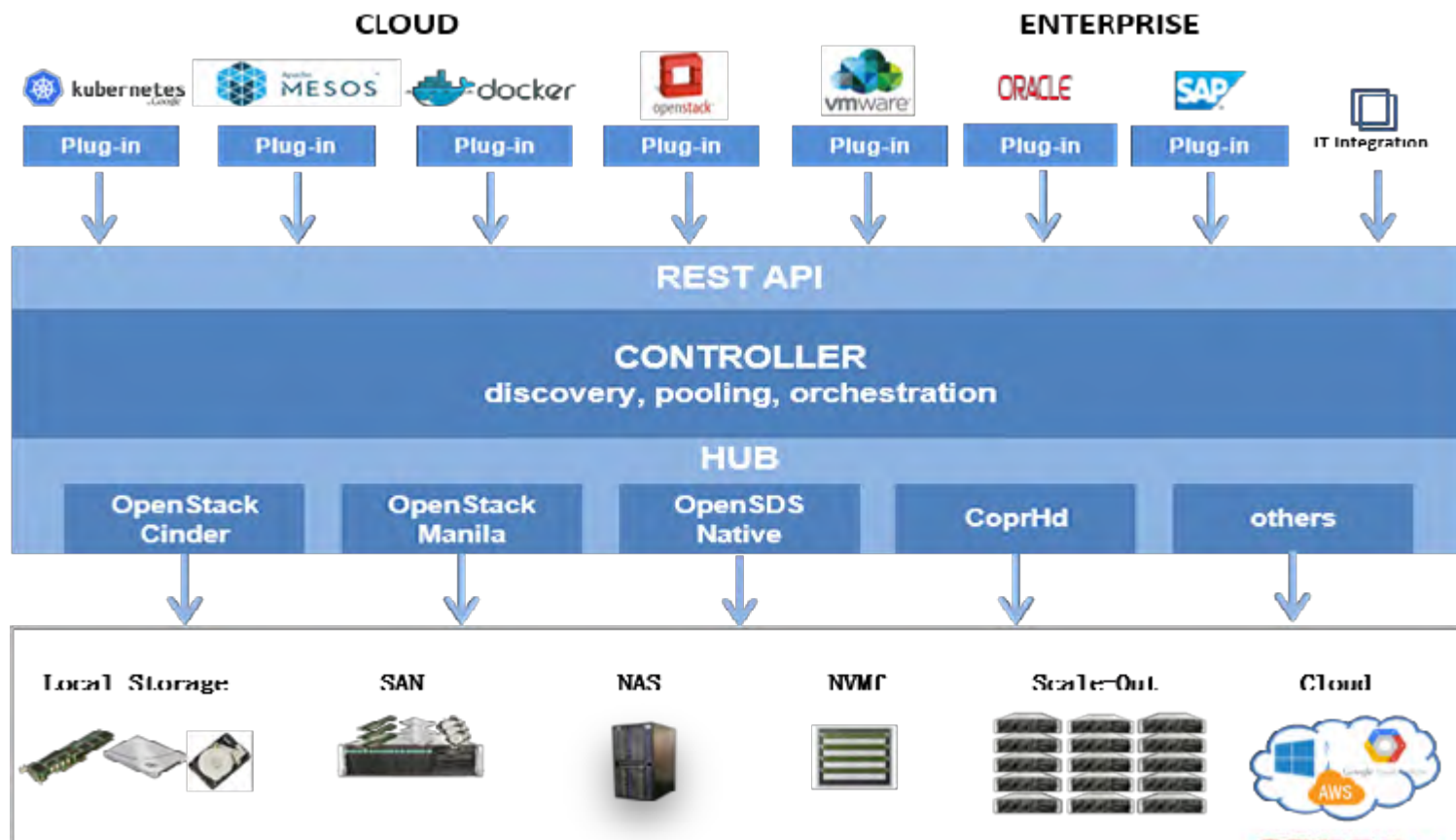
People

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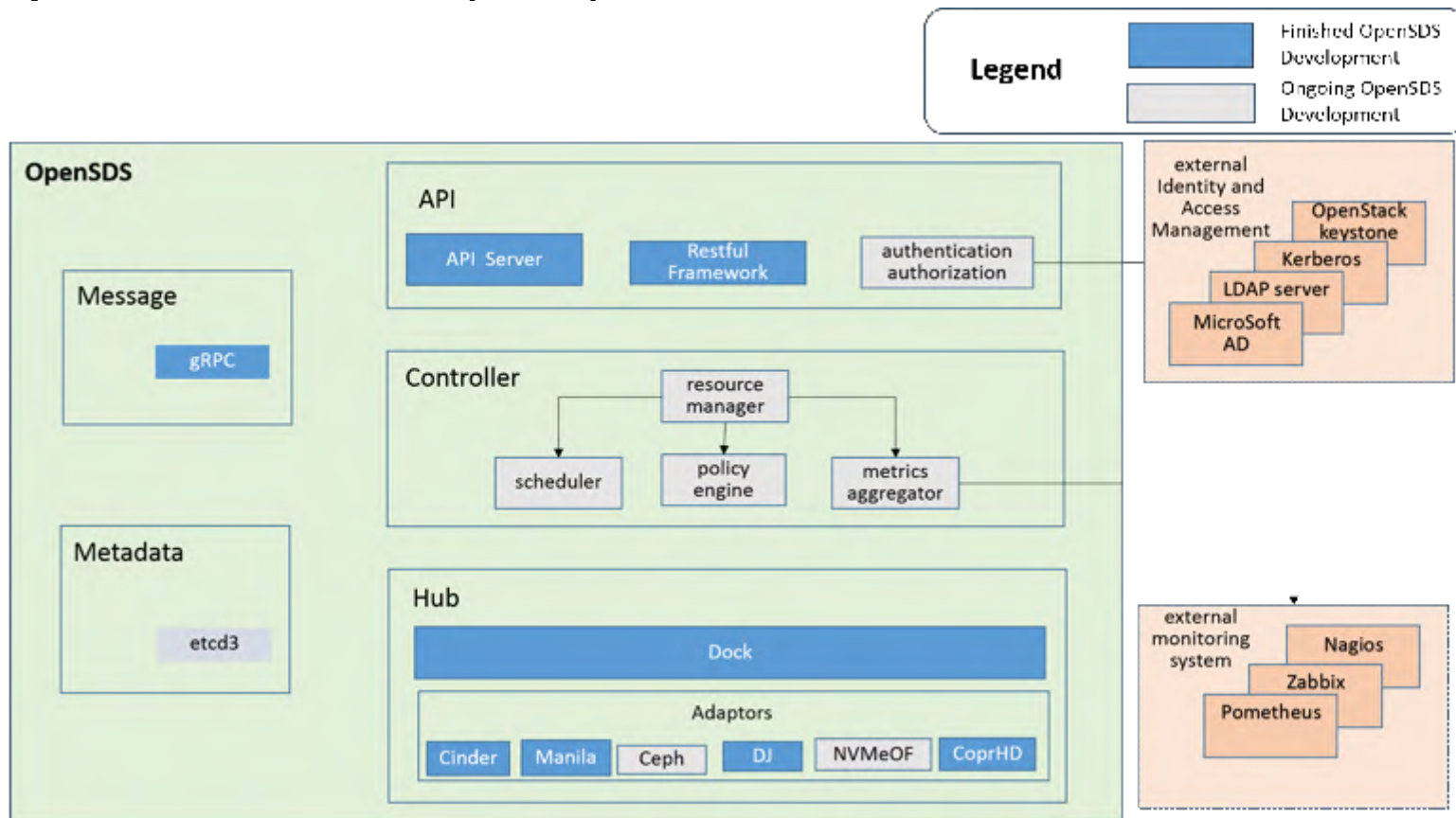
This organization has no public members. You must be a member to see who's a part of this organization.



初识 OpenSDS——技术(架构)

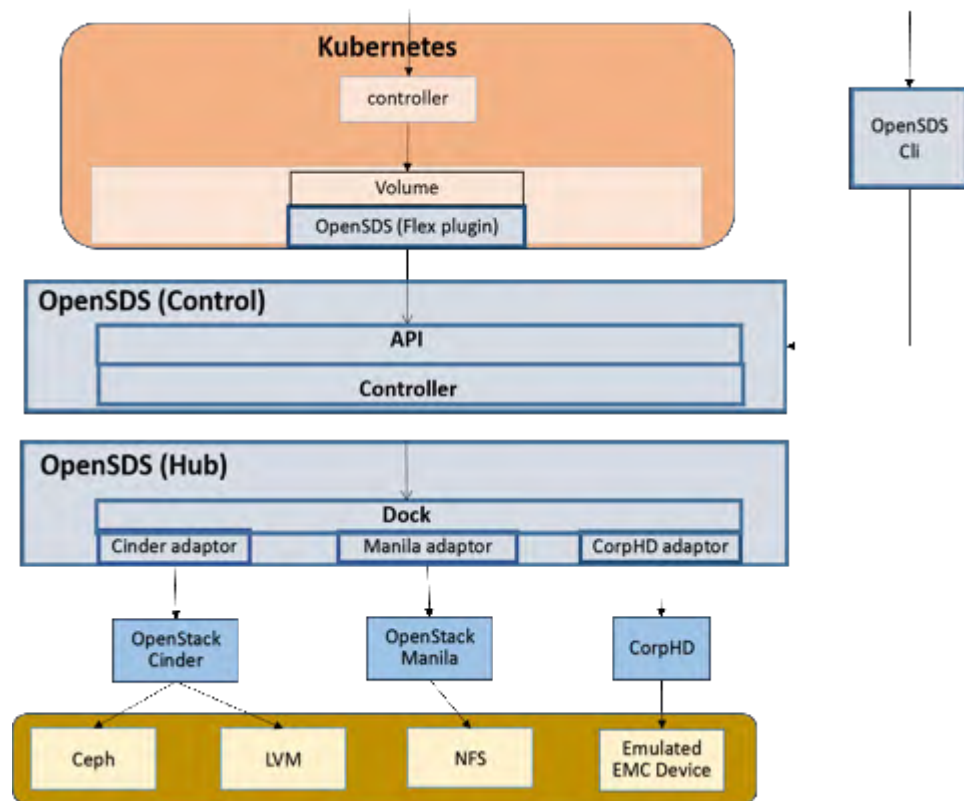


初识 OpenSDS——技术(实现)



初识 OpenSDS——技术(验证)

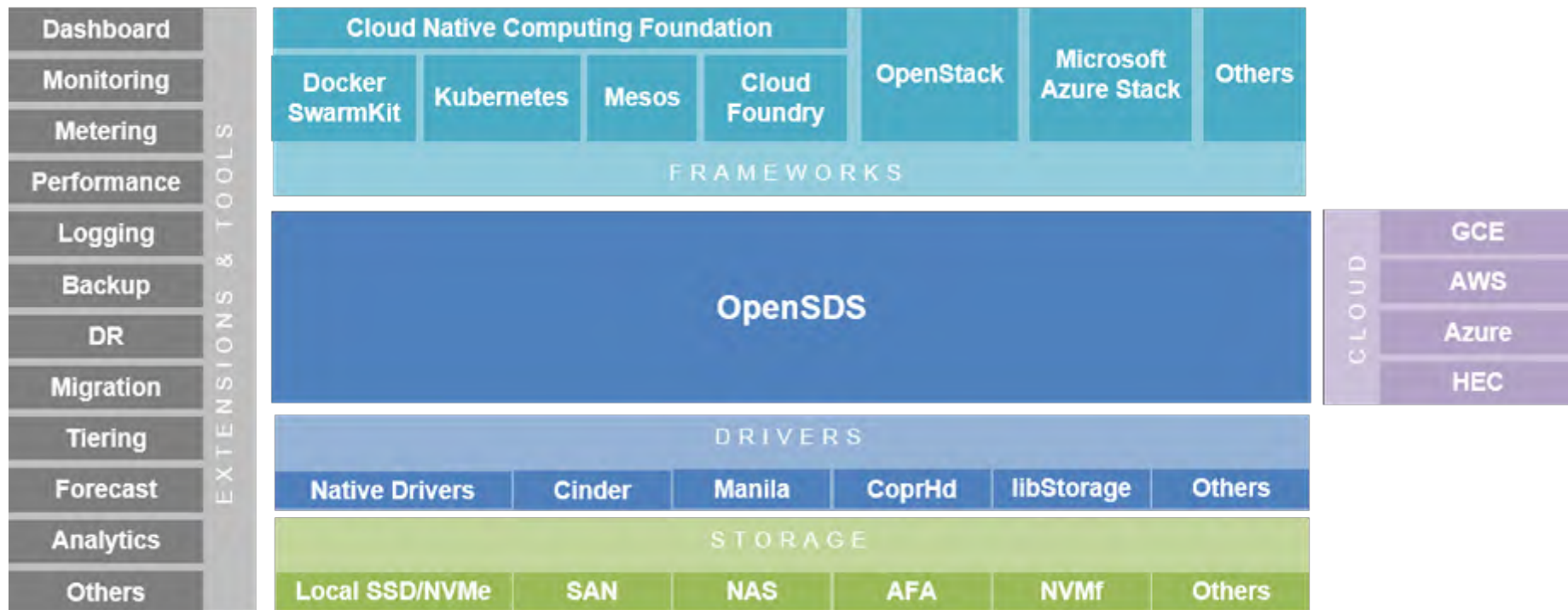
- Language: Go 1.6+
- CI: Travis-CI
- Related Modules:
 - OpenStack golang-client (Cinder/Manila Adaptor): master branch
 - gRPC: v1.2
 - REST Framework: Beego (<https://github.com/astaxie/beego>)
- Testing Env: **CNCF Cluster**: <https://github.com/cncf/cluster/issues/30>
 - OpenStack : Mitaka
 - Kubernetes : v1.5
 - Ceph: v11.2
 - CorHD: v3.0
- For more information: <https://github.com/opensds/opensds/>



前世
今生
未来



OpenSDS未来生态全景





OpenSDS 未来由你打造

Repo: <https://github.com/opensds>

Mailing list: <https://groups.google.com/forum/?hl=en#!forum/opensds-dev>

Slack: opensds.slack.com

欢迎参与开发贡献!



Thank You

Q&A

