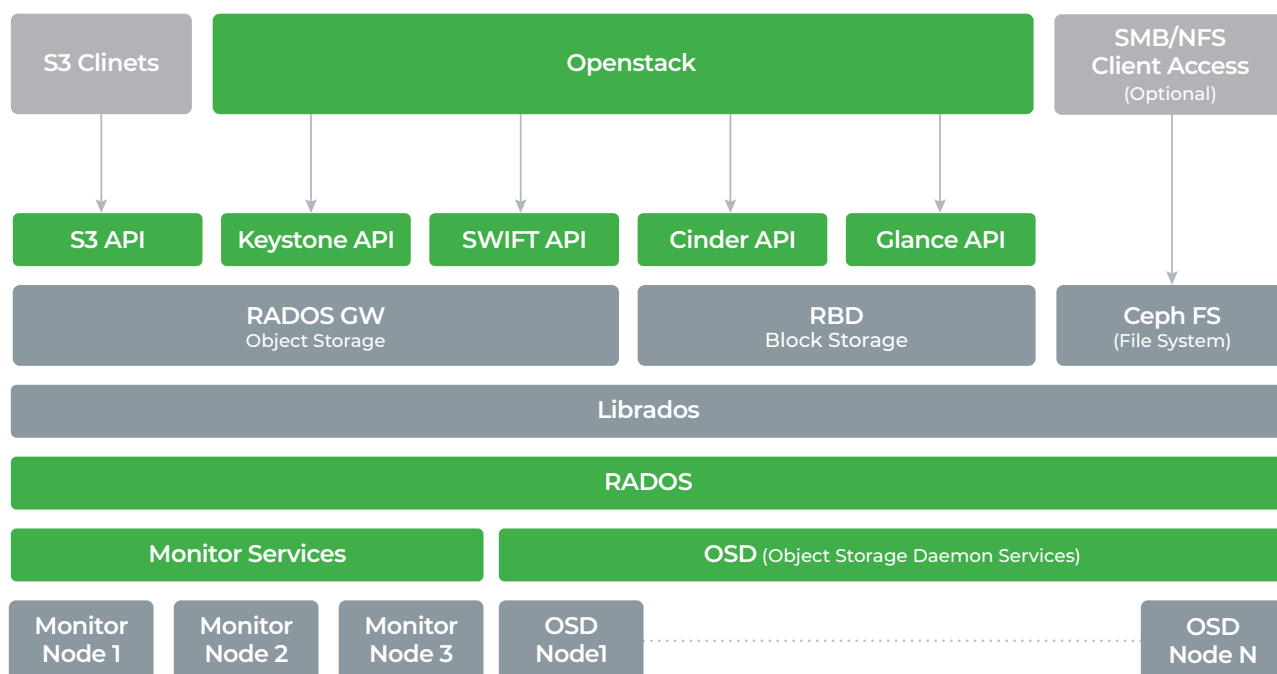# Ceph.
The Future Of Storage

Ceph is the future of storage; where traditional systems fail to deliver, Ceph is designed to excel. Leverage your data for better business decisions and achieve operational excellence through scalable, intelligent, reliable and highly available storage software. Ceph supports object, block and file storage, all in one unified storage system.

With Ceph's adaptability, your cluster will be ready to support all your application and data storage demands, both now and in the future, whether your solution is on-premises, in the public or private cloud, or container native.

Ceph. An unified storage system.

Scalable

Ceph is capable of rapid scaling, without the typical downtime other solutions require. Using the advanced CRUSH algorithm, Ceph overcomes all scalability challenges, leading the way towards truly flexible, incredibly resilient storage at scale. With Ceph, users can stop relying on expensive, vendor-locked in hardware and break free of legacy limitations.

Reliable

With its self-managing and self-healing, Ceph finds and rectifies issues before users are even aware of them. Within your storage cluster, Ceph Monitor and Manager daemons coordinate to increase reliability and data availability across interconnected systems.
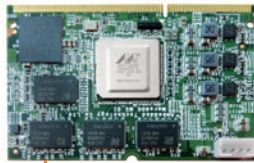
Performance

Ceph's configuration and deployment can be completely tailored to your needs, without compromising on performance. Apply Ceph to your existing storage setup, or create a new cluster with widely-available commodity hardware to achieve industry leading reliability and scalability, without the expense of traditional, proprietary ICT infrastructure.

Ambedded Ceph Storage Appliance

A turnkey Ceph storage solution, running on ARM micro-server, saving 60% CapEX and 70% power consumption.

Storage Device
• 8x SATA3 HDD/SSD OSD
• 8x SATA3 WAL/DB SSD

8x ARM Quad Core Micro-Server
• 4GB DDR4
• 8G Bytes Flash: System disk
• 5 Gbps LAN
• < 5 Watts power consumption
• Every node can be OSD, MON, MDS, Gateway

OOB BMC port

Dual uplink switches
Total 4x 10 Gbps

<105Watts

300 Watt Redundant power supply

Mars 400 Ceph Storage Appliance Key Features & Data Sheet

Arm server	1U rack mount accommodate 8x nodes Arm 64 server
Processor & Memory	• Quad Core Arm A72 v8 servers per node. • Total 32 CPU cores per 1U appliance. 4GB DDR4 per node. Total 32GB per appliance
Node Configuration	Every node can be configured as Ceph monitor, OSD, MDS, RGW or storage gateways
Network Uplink	4x 10Gbps Ethernet ports.
Power consumption	100 Watts at maximum load. (exclude data disks)
Storage protocol	• Block storage, CephFS shared file system, S3/SWIFT object storage. • iSCSI, NFS, SMB, FTP, HTTP
Software	• Pre-test and tuned Ceph software, Ubuntu LTS, • 3 year free update. Optional extended 2 years.
Storage Device	• 8x 3.5"/2.5" top load SATA 6Gbps HDD/SSD • Pre-Installed 8x 120GB M.2 SATA SSD for Ceph OSD bluestore, Docker image and Monitor storage
Management	• UniVirStor UVS manager web UI • Ceph command line interface • BMC via ethernet • Prometheus Ceph and node exporter • SNMP
Technical Support	• 3 years free Ceph technical support by remote access, • conference call and email. Optional extended support by subscription. • Knowledge base customer portal accounts.