The world's most advanced OpenStack cloud infrastructure

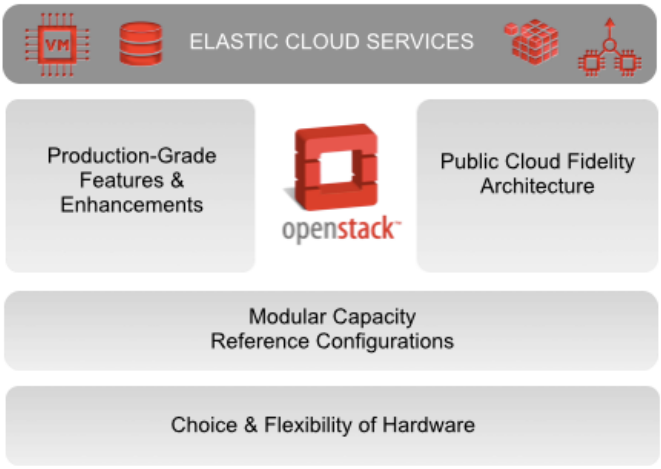
Open Cloud System (OCS) is a complete Infrastructure as a Service (IaaS) solution powered by OpenStack™ technology. OCS is designed for enterprises and web application companies to address the requirements of next-generation dynamic web apps, SaaS/PaaS deployments and big data implementations. OCS combines the agility, automation and cost benefits of the leading public cloud providers with the flexibility, performance and control of your own private cloud.

To create OCS, Cloudscaling leveraged the innovations pioneered by cloud infrastructure teams at Amazon Web Services and Google. With a systems approach that implements both architectural and behavioral compatibility with leading public cloud services, OCS delivers cost-effective elastic infrastructure, modular scalability, and production-grade features. With OCS, customers get the benefit of full OpenStack project compatibility, delivered in a proven, turnkey solution and supported by cloud experts.

What's in the Cloudscaling Open Cloud System?

Elastic Cloud Services - With Cloudscaling OCS, you can spin up virtual machines (VMs), store and retrieve objects, and attach and detach virtual disks to support dynamic cloud-based applications that are self-managing, resilient to failure, and designed to take advantage of on-demand, scale-out infrastructure.

Production-Grade Features - Cloudscaling OCS employs a systems approach that extends the power and cost-effectiveness of OpenStack with a number of unique, production-grade features to streamline the cloud operations lifecycle at scale in production environments.



Manageability	OCS delivers operator focused automation and lifecycle management to enable the provisioning and management of blocks of cloud capacity versus managing individual servers.
Availability	OCS implements several approaches to scale-out availability for 24x7x365 workloads including OCS Multi-pathing, small failure domains and internal sharding.
Performance	The OCS architecture is scale engineered from top to bottom to ensure Quality of Service. Example features include Intelligent Resource Schedulers, Elastic Networking & High IOPS Block Storage.
Security	OCS employs a defense-in-depth strategy that embeds security controls at every layer of the system, including OS hardening, audit logging, VPC networking, SSL encryption & restricted operator access.

Public Cloud Fidelity Architecture - Our philosophy is to provide full API compatibility with leading public clouds so you can easily leverage common tools and libraries. There's no need to refactor applications for a private cloud or to retrain personnel that are already using AWS and Google Compute Engine.

API compatibility, however, is not enough to realize common private/public cloud use cases. Behavioral fidelity is also required to enable effective interoperability. This means the infrastructure underneath the API also needs to match. OCS includes a number of additional capabilities that provide a 1:1 mapping to key elastic cloud resources and recreate the architecture, cost model & scalability of supported public clouds.

Extends OpenStack Technology - Cloudscaling's production-ready system is built around 100% stock OpenStack components. Cloudscaling takes the base OpenStack release, adds drivers/plugins and additional open source software to address functional gaps, and then tunes the system configuration
to production-ready defaults.

Modular Capacity Reference Configurations - Cloudscaling CloudBlocks™ is a unified software and hardware reference architecture for enabling managed blocks of cloud capacity to match application workload demands with the appropriate virtual infrastructure resources. CloudBlocks lets you design, deploy and manage one rack or block at a time. By providing a proven and scale-engineered reference architecture, OCS CloudBlocks speed time-to-deployment, simplify overall capacity management and optimize application performance.

Choice Of Hardware - With years of production-grade IaaS experience, we know that testing and certifying specific infrastructure hardware is critical to enable support for the entire running system (including the hypervisor, hardware infrastructure and network elements). There is sufficient variability even across 'commodity' hardware to introduce instability in large-scale, distributed systems. Cloudscaling OCS supports a wide range of configurations using proven, standards-based hardware components from Arista, Cisco, Dell, Juniper and Quanta.

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openstack™ CLOUD SOFTWARE

Cloudscaling is the trusted source for information on OpenStack and together with the community is making OpenStack more production-grade. For more information, please visit www.openstack.org.

Why Cloudscaling?

Production-ready cloud infrastructure
With OpenStack technology rapidly evolving, sometimes the latest components aren't yet the greatest. OCS fills in the gaps with proven solutions to ensure manageability, availability, performance and security.

Predictable deployment cost
Deploying OCS eliminates the guesswork present in do-it-yourself and integrator-assisted OpenStack implementation options, resulting in rapid deployment with reduced costs, higher system reliability and lower operational effort.

Public cloud compatibility
OCS is the only solution delivering both API and behavioral compatibility with Amazon Web Services and Google Compute Engine to enable deployment of applications into the best fit environment.

Cloud operator focused automation
With OCS lifecycle management, you can manage racks of servers as a single resource to deliver unparalleled cloud management efficiencies. From cloud provisioning to capacity rebalancing to upgrades, what used to take days can be accomplished in minutes.

Modular scalability
The OCS CloudBlocks architecture makes it easy to define, organize, and manage blocks of cloud capacity through the intelligent integration of software with certified hardware reference configurations. Start small and scale linearly without cloud infrastructure re-engineering.

Complements existing infrastructure
Cloudscaling OCS can be deployed in a starter footprint alongside existing enterprise virtualization to support scale-out, dynamic applications.

24x7x365 support
Cloudscaling support is comprehensive for the running system from the concrete up as Cloudscaling has certified the hardware to support the block designs, implemented the networking model and configured the software for the infrastructure deployment.

Forward upgrade path
Cloudscaling delivers seamless system upgrades as the entire stack is treated as an atomic unit. With Cloudscaling, your cloud only gets better with time.