Virtuozzo Hybrid Infrastructure

The production-ready OpenStack-based cloud platform for service provider

What is Virtuozzo Hybrid Infrastructure?

Virtuozzo Hybrid Infrastructure is a turnkey cloud platform for service providers. It makes it easy to build, manage and sell your own brand of Infrastructure-as-a-Service cloud – public, private or hybrid – as well as Kubernetes-as-a-Service, Load Balancer-as-a-Service, and Storage-as-a-Service.

The platform includes KVM-based virtualization, OpenStack orchestration, software-defined storage, a self-service portal for end users, and easy-to-use cloud management and monitoring tools, in a single hyperconverged solution.

Key Benefits

**Fast Time-to-Value**
Ready-to-use OpenStack cloud, optimized for service providers, with 24/7 support included. Get to market fast with profitable cloud services.

**Minimal Investment**
Hyperconverged solution with software-defined storage to reduce your costs – minimal investment needed to launch.

**High Availability and Performance**
Resilient cloud platform with automatic recovery from server or component failure, and storage performance up to 3.5x in comparison with Ceph.

**Flexible Licensing Model**
Licensing designed for service providers: pay as you grow, or choose a traditional perpetual license.

**Flexible Deployment Options**
Deploy in your datacenter, or get fully managed cloud infrastructure so you can focus on business development – it's up to you.

“Simplicity is a key differentiator for Virtuozzo. While there are other cloud solutions that claim to be easy-to-use, none offer that same level of simplicity. Virtuozzo Hybrid Infrastructure is easy to manage, easy to deploy, flexible and affordable.”

Carlos Pino, President & CEO, TLine
Key Features and Components of Virtuozzo Hybrid Infrastructure

Resilient Compute and Networking

- **High performance and high availability for Virtual Machines.** With an improved KVM hypervisor, GPU/vGPU support, and the ability to increase vCPU, memory and storage resources without downtime, your cloud is ready for enterprise workloads
- **Secure and isolated networking** with VXLAN networks, distributed virtual routers, Load Balancers, Security Groups and built-in VPN as a Service solution
- **Full Windows guest support** for desktop and server OS with automatic installation of high performance paravirtualization drivers

Simplified Management

- **Single management console** for compute, storage and network services
- **Multi-tenant self-service portal** for end-users with white labeling support
- **Single-click update** for all system components with Maintenance Mode for all services
- **Easy billing integration:** meter and bill for your cloud resources with popular cloud billing platforms such as WHMCS, HostBill and CloudBlue
- **Built-in advanced analytics and monitoring** with an alerting system and enterprise overview dashboards powered by Prometheus and Grafana
- **Comprehensive integration** with third party solutions via a 100% compatible OpenStack API

Software-Defined Storage

- **Data redundancy** in case of any type of hardware failure, with support for block storage (VM volumes, iSCSI), file storage (NFS), and object storage (S3)
- **High-performance block storage** for hot data and virtual machines, natively integrated with compute services, including RDMA support and ability to create multiple chunk servers per NVMe/SSD drive
- **Cost-effective cold data storage** with erasure coding that optimizes disk space for storing petabytes of data
- **Easy and smooth scalability for growing clusters** by small steps on one server or disk

Kubernetes as a Service

- **Automated** Kubernetes deployment and updates, as well as horizontal auto scaling based on Cluster Autoscaler
- **High performance** that copes with high disk I/O pressure on a storage subsystem for volumes
- **Integration with Persistent Volumes and Load Balancers**
- **Integrated monitoring** with Prometheus and Grafana
- **Highly available** control plane
- **Flexible customization** using labels
- **CNCF-certified** Kubernetes implementation

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