Unlocking OpenStack to Deliver Virtual Desktops

OpenStack provides a compelling option for hosting desktops. Not only does the open source powerhouse mitigate the costs of traditional VDI stacks, it also offers a cloud-based approach to building virtual desktop environments and deploying Desktops-as-a-Service. By enlisting Cisco Metacloud™, IT teams can turbo-charge their deployments and get up and running faster and more efficiently. Organizations can manage OpenStack VDI/DaaS and improve resource utilization at scale through a strategic combination of connection broker and remote access protocol technologies.

Get in the Fast Lane with Cisco Metacloud

Cisco Metacloud is a production-ready private cloud solution that is built and deployed on-site within a few days, and then professionally operated by Cisco OpenStack experts 24 hours a day, 365 days a year. It gives administrators complete visibility and control through an enhanced OpenStack dashboard. And it helps accelerate deployments by providing the expertise to ease the migration to the cloud. This turnkey approach ensures environments are architected with VDI in mind, focused on business process workflows such as login storms, and disaster recovery.

**Why Virtual Desktop Infrastructure?**

- Centralize management activities by moving desktops out from under users’ desks
- Promote mobility by allowing end-users to work from anywhere and any device
- Optimize resource usage and support peak demand by enabling applications to be shared

**Why OpenStack as a VDI hosting platform?**

By leveraging an open source solution, organizations avoid the costly licensing fees associated with other virtualization stacks and lower the cost of implementing VDI. OpenStack delivers on several key must-haves for deploying cloud hosted desktops:

- On-demand availability
- Multi-tenancy
- Networking tools
- Cost control
Building OpenStack VDI with Trusted Partners: Leostream & Teradici

For large-scale deployments, both an independent connection broker and a virtual workspace solution are cornerstone to delivering virtual desktops hosted in OpenStack.

Manage the Desktop Environment from a Single Interface

The Leostream Connection Broker has quickly become an essential tool for managing virtual desktop capacity and connections in OpenStack. As the most widely deployed vendor neutral connection broker on the market, the software is optimized for the OpenStack API. As a complete VDI management layer it provides all the necessary functionality for provisioning and deleting desktops in OpenStack, allocating those desktops to users, and controlling how and when a user can connect to their virtual desktop.

Optimal Flexibility
Manage a wide variety of operating systems, physical and virtual desktops, and display protocols in one centralized application.

Plug and Play Integration
Leverage existing investments such as authentication systems, SSL, VPNs, SNMP servers, load balancers, etc.

Robust Reliability
Support tens of thousands of desktops, hundreds of logins and tens of thousands of desktops per hour with built-in clustering and failover features.

Deliver Rich, Uncompromised End-User Experiences

Teradici, inventors of the PCoIP protocol, delivers a state-of-the-art virtual desktop experience, which gives pixel perfect rendering to a wide range of end-point devices. In leveraging the Teradici Pervasive Computing Platform, users can connect to their OpenStack virtual desktop from a variety of BYOD client devices, including Microsoft Windows or Apple Mac laptops, iOS and Android tablets, Chromebook and a host of ultra-secure and easy to manage PCoIP zero clients — all of which can be used in conjunction with Leostream.

Proven Technology
Teradici PCoIP is a proven technology used by Amazon Web Services, VMware, and leading service and solution providers to deliver secure, high-performance virtual workspaces.

Secure and Encrypted
Corporate data remains secure as the PCoIP protocol only transfers encrypted pixels so no data ever leaves the data center. The quality of the end user experience is never compromised — even in graphics-intensive computing environments.

Open and Extensible Platform
The Teradici Pervasive Computing Platform provides a set of host agents, middleware, and client components that can be used to build virtual workspaces and vertical solutions. Open APIs and SDKs ensure the components are easily integrated into offerings.
A Look Under the Hood

The go-to-market partnership between Cisco, Leostream and Teradici creates a seamless architecture designed for OpenStack VDI and built for stability, superior performance, and scale.

Quick Links

Learn more about the Cisco and Leostream partnership at: leostream.com/blog/openstack-vdi/leostream-and-cisco-metapod

Learn more about OpenStack VDI and DaaS with Leostream and the Teradici Pervasive Computing Platform at: leostream.com/webinar/openstack-vdi-with-leostream-and-teradici

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