



Product and service reviews are conducted independently by our editorial team, but we sometimes make money when you click on links. [Learn more.](#)



Tom's IT Pro ► [Cloud Computing](#) ► [Cloud Computing Features](#) ►

OpenStack For Private & Hybrid Clouds: Costs, Benefits & Risks

By [Dan Sullivan](#) JANUARY 9, 2014 8:34 AM

2. Benefits of OpenStack Private and Hybrid Clouds

The benefits of using OpenStack stem, in part, from the fact that it is a cloud platform and all cloud platforms offer similar benefits. But there are advantages to OpenStack that stem from the way this particular open source cloud platform was created and developed.

Let's start with the **common benefits of cloud platforms**. Clouds can lead to improved server utilization over conventional server virtualization. With a cloud, users can start and shutdown virtual instances as needed without direct support of IT staff. This is especially important when running large, ad hoc jobs, such as data analysis. Servers that may be underutilized at a point in time can be used to run additional virtual instances that increase overall utilization.

The fact that cloud users can work with self-service dashboards promotes an environment of **more agile development**. Developers can quickly move from coding a prototype and running it on small data sets to a cluster of virtual instances. Of course the move to self-service provisioning **reduces system management overhead**, leaving IT staff to other, higher valued tasks.

Subscribe

Don't miss each week's most important technology trends, insights and decision-making advice, right in your inbox.

[SIGN UP NOW](#)

CompTIA

Help shape the future of IT as a CompTIA Subject Matter Expert!

SME Perks Include:

- \$2,000 per 5-day exam workshop (\$2,500 for International)
- CompTIA Exam Voucher
- 40 CEUs
- Daily meals and more!



Cloud Computing

► [See all articles in Cloud Computing](#)

See also : [Hybrid Cloud](#) [Open Source](#) [Private Cloud](#) [Virtualization](#) [OpenStack](#)

北京新东方, 专注留学23年

针对性补习, 短期提成绩, 冲高分! [Go to bj.xdf.cn](#)



Symphos 2017 - Exhibitor

Showcase your know-how & Innovation, Engage & Network with Industry Leaders [Go to register.symphos.com](#)



Although OpenStack is an open source project, it is supported by multiple established vendors including HP, IBM, Rackspace, Dell and Red Hat.

Perhaps the most significant advantage of OpenStack is **the way it embraces the development of new features**. Companies like Google, Facebook and Netflix created new cloud and data storage services when existing tools failed to meet their needs. Other companies and organizations benefit

from their experimentation and development. In a similar way, **OpenStack promotes a DIY approach to cloud computing.**

OpenStack was started by Rackspace and NASA and is now managed more like a consortium than a monolithic organization. This has led to some criticisms of OpenStack and its potential for long-term viability. There is the potential for fragmentation with vendors like HP, IBM, Rackspace, Red Hat all pursuing their own interests. The trade-off is that the **OpenStack community will have more options for plugins and tools** as well as the opportunity to address any deficiencies in the current set of modules.

There are **alternatives to OpenStack for private and hybrid clouds**. Microsoft is melding their operating systems and cloud platforms with the most recent releases of Windows Server, Systems Center, and the new Windows Azure Pack. For organizations more comfortable with an established vendor driving the design and development of their cloud platform, the Microsoft option may be a better, less risky option than OpenStack.

Further Reading:

- [Red Hat: The Open Hybrid Cloud](#)
- [Windows Azure: A Guide to Private Cloud Options](#)
- [Getting Started with the Cloud: Microsoft Windows Azure](#)
- [Journey to the Hybrid Cloud in a vCenter Plug-in](#)

PREVIOUS



NEXT

SUMMARY

1. Cost of Private and Hybrid Clouds

➤ 2. Benefits of OpenStack Private and Hybri...

Related Content

- [BMC Updates TrueSight For OpenStack Private And Hybrid Clouds - NEWS](#)
- [SUSE OpenStack Cloud 5 Simplifies Private Cloud Management - NEWS](#)
- [Platform9 Launches First SaaS-Based OpenStack Private Cloud - NEWS](#)
- [New IBM OpenStack Services Facilitate Hybrid Cloud Deployments - NEWS](#)
- [OpenStack Kilo Brings Greater Stability And Scalability To The Cloud - NEWS](#)
- [AMD Serves Up Cloud in a Box with Canonical & OpenStack - NEWS](#)
- [Intel Deals with Noisy Neighbors in an OpenStack Cloud - NEWS](#)
- [Ubuntu vs. Red Hat: Racing to the OpenStack Cloud - NEWS](#)
- [OpenStack Based SUSE Cloud 3 IaaS Now Available - NEWS](#)
- [HP Integrates OpenStack Horizon Into Its Cloud Console - NEWS](#)
- [OpenStack's Neutron Gets Cloud Boost from Brocade - NEWS](#)
- [HP Launches Cloud OS for HP Systems, Built on OpenStack - NEWS](#)
- [OpenStack for Hybrid Clouds: Challenges and Considerations - REVIEW](#)
- [Public And Private Hybrid Clouds: The Pros And Cons - REVIEW](#)

[Public Cloud vs. Private Cloud vs. Hybrid Cloud Storage: What's Best for Your Business](#) - REVIEW

[Building A Business Case For OpenStack](#) - REVIEW

[OpenStack Operations Guide: Compute Nodes](#) - REVIEW

Hot Topics

- Cloud Computing
- Management
- Microsoft
- Security
- Servers
- Storage
- Virtualization

Features

- Amazon Chime Challenges Skype fo...
- CompTIA Certification Guide: Ove...
- Building Better PowerShell Param...
- Best Video Conference Systems fo...

Follow Tom’s IT Pro

About Tom's IT Pro

[Advertising](#) | [About Us](#) | [Contact](#) | [Privacy Policy](#) | [Terms Of Use](#) | [Copyright Policy](#) | [Press releases](#)

Copyright © 2017 Purch Group, Inc. All Rights Reserved

