RED HAT® OPENSTACK® PLATFORM

redhat. | DELL | (intel)

CAPITALIZE ON INNOVATION WITH OPENSTACK

SOLUTION BRIEF

"I would recommend the combination of Dell and Red Hat to my peers in the industry. There's no better combination."

SAMIR IBRAHIMOVIC
HEAD OF INFRASTRUCTURE
AND SYSTEMS,
MIDOKURA JAPAN

ADVANCE YOUR BUSINESS WITH OPEN CLOUD TECHNOLOGIES

Innovation and agility are essential to succeed in a competitive business environment. As a result, 54% of organizations have implemented cloud technologies and a further 37% have plans to do so.[1] These organizations are choosing OpenStack®–the most popular open cloud platform–to help them increase agility and operational efficiency.

Building a production-grade OpenStack environment typically requires significant staff resources with extensive OpenStack expertise to understand and mitigate the many interdependent projects–something many enterprises don't have. In fact, 32% of organizations cite lack of resources and expertise to be the top challenge of cloud adoption.[2] To move forward, these companies need pre-built, customizable OpenStack solutions that eliminate the need for internal research, testing, and integration work.

QUICKLY BUILD AN OPENSTACK CLOUD TO SPEED BENEFITS

Transform your infrastructure quickly and easily with the Dell™ Red Hat® OpenStack Cloud Solution, powered by Intel. Jointly engineered by trusted technology vendors Dell, Red Hat, and Intel, this complete, open, proven solution simplifies and speeds deployment, so you can take advantage of cloud benefits sooner and with less risk. Validated, integrated components combined with expert services and support help you build a flexible, scalable, enterprise-grade OpenStack cloud environment tailored to your business needs.
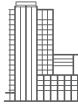
Dell and Red Hat certify this solution to be stable, reliable, secure, and interoperable, so you can operate with confidence and choice. Additionally, this solution meets the requirements for the OpenStack Foundation's OpenStack Powered Platform designation for interoperability. Finally, a simple, enterprise life-cycle support model covers your entire cloud infrastructure, streamlining issue resolution.

Through documented designs, deployment guidelines, and purpose-engineered configurations, the Intel-based Dell Red Hat OpenStack Cloud Solution incorporates these elements into a unified architecture framework:

• Red Hat OpenStack Platform

• Red Hat Ceph Storage

• Dell PowerEdge™ R430, R630, and R730 servers based on the latest Intel® Xeon® E5-2600 v4 processor family

• Dell Networking S3048, S4048, and S6000 switches

• Dell and Red Hat professional services

---

1 RightScale, "RightScale 2016 State of the Cloud Report," January 2016.

2 Ibid.

The Dell Red Hat OpenStack Cloud Solution delivers many benefits to organizations. Here are some examples of what you can do with an agile, open, and production-ready cloud environment:

- **Innovate to differentiate and deliver business results.** 79% of OpenStack users cite accelerating their organization's ability to innovate and compete by deploying applications faster to be a top priority for OpenStack adoption.[3] The Intel-based Dell Red Hat OpenStack Cloud Solution helps you respond quickly to business demands and be more agile. Expand your cloud infrastructure with an elastic architecture that can scale up, down, or out to meet evolving requirements. Avoid vendor lock-in and enhance your cloud environment with standards-based technologies, open application programming interfaces (APIs), and validated extensions from the OpenStack ecosystem.

- **Accomplish more, faster with your resources.** 75% of OpenStack adopters expect their cloud infrastructure to help them increase operational efficiency.[4] The Dell Red Hat OpenStack Cloud Solution not only helps you rapidly deploy a cloud environment, but also streamlines administration to help you accomplish more, faster. Accelerate and automate operations with a software-defined infrastructure and unified management. Easily update and upgrade your environment to provide more features, innovation, and security without disrupting operations. Reduce power consumption—and operational expenses (OpEx)—with energy-efficient servers and processors that include Intel Intelligent Power Technology.

- **Improve IT security and control.** Security and compliance remain key concerns for cloud adopters.[5] The Dell Red Hat OpenStack Cloud Solution helps you deliver cloud innovation and agility while retaining tight control of applications, data, and intellectual property. Ensure security and regulatory compliance throughout your cloud environment with an integrated architecture based on certified components. Red Hat OpenStack Platform is vigorously tested, patched, and commercially hardened for increased safety, stability, and reliability. Additionally, Red Hat's dedicated security team provides timely fixes for Red Hat products. To date, Red Hat Product Security released patches for 98% of all Red Hat Enterprise Linux® 7 security issues within one day.[6] Because Red Hat OpenStack Platform is based on and co-engineered with Red Hat Enterprise Linux, this protection extends throughout the cloud software stack. Intel Trusted Execution Technology (Intel TXT) further safeguards your infrastructure using Red Hat and Intel platform trust and system auditing.

CONCLUSION

OpenStack cloud technologies can give you a competitive advantage in a quickly evolving market. With integrated, certified components, fast deployment, and enterprise support, the Dell Red Hat OpenStack Cloud Solution, powered by Intel, delivers the agility, efficiency, and control you need to transform your IT organization into a valuable business asset. To learn more about this offering, visit dellcloudbuilders.com.

3 OpenStack.org, "OpenStack User Survey," April 2016.

4 RightScale, "RightScale 2016 State of the Cloud Report," January 2016.

5 Ibid.

6 Information from redhat.com/security/data/metrics as on August 8, 2016.