

# CAPITALIZE ON INNOVATION WITH OPENSTACK

SOLUTION BRIEF



*“I would recommend the combination of Dell [EMC] 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, 58% of organizations have implemented cloud technologies and a further 36% have plans to do so.<sup>1</sup> These organizations are choosing OpenStack®—the most popular open cloud platform—to help them innovate faster, increase agility, and boost operational efficiency.

Building a production-grade OpenStack environment typically requires significant staff resources with extensive OpenStack expertise to understand and integrate the many interdependent projects—something many enterprises do not have. In fact, 25% of organizations cite lack of resources and expertise and 19% identify the complexity of building a private cloud to be their top challenge to cloud adoption.<sup>1</sup> To move forward, these companies need prebuilt, customizable OpenStack solutions that eliminate the need for internal research, testing, and integration work.

## QUICKLY BUILD AN OPENSTACK CLOUD TO SPEED BENEFITS

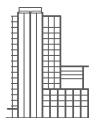
Transform your infrastructure quickly and easily with the Dell EMC™ Ready Bundle for Red Hat® OpenStack Platform, powered by Intel®. Jointly engineered by trusted technology vendors Dell EMC, Red Hat, and Intel, this complete, open, proven solution simplifies and speeds deployment so you can take advantage 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 EMC 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 validated designs, deployment guidelines and automation, and purpose-engineered configurations, the Intel-based Dell EMC Ready Bundle for Red Hat OpenStack Platform incorporates these elements into a unified architecture framework:

- Red Hat OpenStack Platform
- Red Hat Ceph Storage on Intel solid-state drives (SSDs)
- Dell servers based on the latest Intel Xeon® E5-2600 v4 processor family
  - Compute and controller nodes: Dell EMC PowerEdge™ R430, R630, R730, R730xd, or FC630 servers
  - Storage nodes: Dell EMC PowerEdge R730xd or FC630 with FD332 servers
- Dell EMC Networking S3048-ON and S4048-ON switches, with optional S6000-ON switches
- Dell EMC and Red Hat professional services

<sup>1</sup> RightScale, “RightScale 2017 State of the Cloud Report.” January 2017.



## ABOUT RED HAT

Red Hat is the world's leading provider of open source software solutions, using a community-powered approach to provide reliable and high-performing cloud, Linux, middleware, storage, and virtualization technologies. Red Hat also offers award-winning support, training, and consulting services. As a connective hub in a global network of enterprises, partners, and open source communities, Red Hat helps create relevant, innovative technologies that liberate resources for growth and prepare customers for the future of IT.

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The Dell EMC Ready Bundle for Red Hat OpenStack Platform 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

OpenStack users cite accelerating their organization's ability to innovate to be a top priority for OpenStack adoption.<sup>2</sup> The Intel-based Dell EMC Ready Bundle for Red Hat OpenStack Platform helps you respond quickly to business demands and be more agile. Gain access to the latest technology advances at every level of the solution stack. 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

Increasing operational efficiency remains one of the top three reasons organizations deploy OpenStack cloud environments.<sup>2</sup> The Dell EMC Ready Bundle for Red Hat OpenStack Platform 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 high-performance, software-defined infrastructure and unified management that gives developers an easy-to-use, self-service portal. 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. Free your IT staff to focus on strategic outcomes rather than day-to-day operations.

## IMPROVE I.T. SECURITY AND CONTROL

Security and compliance remain key concerns for cloud adopters.<sup>1</sup> The Dell EMC Ready Bundle for Red Hat OpenStack Platform 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 92% of all Red Hat Enterprise Linux® 7 security issues within one day.<sup>3</sup> 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 give you a competitive advantage in a quickly evolving market. With integrated, certified components, fast deployment, and enterprise support, the Dell EMC Ready Bundle for Red Hat OpenStack Platform, powered by Intel, delivers the agility, efficiency, and innovation you need to transform your IT organization into a valuable business asset. To learn more about this offering, visit [dellcloudbuilders.com](http://dellcloudbuilders.com).

<sup>2</sup> OpenStack.org, "OpenStack User Survey," April 2017.

<sup>3</sup> Information from [redhat.com/security/data/metrics](http://redhat.com/security/data/metrics) as of May 12, 2017.