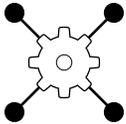


# ORCHESTRATION FOR BUSINESS-FOCUSED CLOUD ENVIRONMENTS

DATASHEET



## KEY BENEFITS

- Deliver new revenue-generating applications and services to users across your cloud environment on demand.
- Align IT resources and staff with business needs.
- Automatically optimize existing resources and lower infrastructure costs.
- Reduce deployment risk and protect your cloud investment into the future.
- Retain control and compliance across platforms, sites, and tenants.

## SUCCESSFUL CLOUD INFRASTRUCTURE REQUIRES ORCHESTRATION

Cloud architectures provide instantaneous, on-demand delivery of applications and services using the most efficient resources available. Moving from a traditional IT architecture to a modern cloud infrastructure can help communications service providers (CSPs) deliver value-adding applications and services faster, increase business flexibility and agility, take advantage of new digital revenue opportunities, and reduce costs. Cloud environments also bring new use cases like agile application development, DevOps, big data analytics, and the Internet of Things (IoT). To make the most of these benefits and use cases, however, you need to efficiently and effectively automate and orchestrate your cloud environment.

Cloud automation and orchestration streamline operations, optimize resource use, and improve security, reliability, and compliance. This dramatically reduces operational overhead and infrastructure spending. Resources can be allocated at the lowest cost for the right quality of service across applications, workloads, and locations. Corporate and security policies can be preconfigured and automatically applied and enforced across your cloud environment, protecting your business from threats and avoiding potentially costly compliance issues.

Central to an on-demand, agile cloud architecture is an infrastructure that can be provisioned, managed, and tuned using policy-based software. Based on open industry standards, Red Hat and Nuage Networks offer a proven, integrated cloud infrastructure and orchestration solution that encompasses all platforms, applications, networks, and services.

## BUILD YOUR CLOUD INFRASTRUCTURE WITH PROVEN INDUSTRY LEADERS

Red Hat and Nuage Networks are committed to providing CSPs with the open, software-defined solutions they need to be successful in a digital economy. Red Hat is the world's leading provider of open source, production-grade IT solutions. Nuage Networks was a pioneer in software-defined networking (SDN) and cloud automation. Both companies believe that open collaboration stimulates innovation and are active contributors to the open source communities developing technologies for next-generation telecommunications architecture.

Together, Red Hat and Nuage Networks have accelerated and scaled major customer OpenStack® cloud deployments, DevOps infrastructure, and docker container-based applications with Kubernetes cloud orchestration. All of the telecommunications companies in the Fortune Global 500 rely on Red Hat® products. And some of the largest telecommunications networks in the world use Nuage Networks' highly scalable network management software.



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## ANALYST HIGHLIGHTS OF BUSINESS VALUES

### Red Hat CloudForms

- A Forrester study found that a Red Hat CloudForms customer experienced a return on investment (ROI) of 97%, net present value (NPV) of \$5.95 million, and a payback period of 6.8 months.<sup>1</sup>
- Based on an analysis of seven enterprises, IDC projects that these organizations will achieve an average five-year ROI of 436% and break even on their investment in an average of eight months.<sup>2</sup>

### Red Hat OpenShift Container Platform

- Based on an analysis of nine enterprises, IDC projects that these organizations will achieve an average five-year ROI of 531% and achieve 66% faster application development life cycles.<sup>3</sup>

The Red Hat and Nuage Networks solution integrates Red Hat's open, production-grade cloud stack with Nuage Networks' automated network platform into a complete, turn-key cloud infrastructure, including cloud networking and management, application infrastructure, and policy-based automation. Each component provides key functionality to the solution.

- **Red Hat OpenStack Platform** provides a scalable and secure foundation for building and managing open private and public cloud environments, including compute, networking, and storage resources. It combines Red Hat Enterprise Linux® with OpenStack technology to deliver production-grade cloud orchestration platform that is integrated with Nuage Networks virtual networking system. With Red Hat OpenStack Platform, you can deploy and deliver IT resources faster while still meeting your performance, scalability, and security standards.
- **Red Hat OpenShift Container Platform** is a complete container application platform that natively integrates technologies like Docker and Kubernetes to let you quickly and seamlessly develop, deploy, and manage applications across physical, virtual, and cloud infrastructures. Self-service capabilities, automated workflows, and policy-based control give both development and operations teams the tools they need to meet business demands more easily. Built on proven open source technologies, Red Hat OpenShift Container Platform helps you modernize applications, deliver new services, and accelerate development processes.
- **Red Hat CloudForms** provides unified management of both traditional and container-based workloads across physical, virtual, and private and public cloud environments. It supplies enterprise-grade cloud management and automation capabilities, including a self-service portal and user catalog with automated provisioning, application workload life-cycle management, and resource allocation. Red Hat CloudForms streamlines and simplifies cloud management so you can focus on delivering more value to your business.
- **Nuage Networks Virtualized Services Platform (VSP)** is a comprehensive cloud networking system for scalable multivendor, multisite, and hybrid cloud environments. VSP automates networking tasks with policy-based software to accelerate application deployment, networking configuration, and analytics. Using VSP, you can operate your network and security infrastructure at cloud scale and in line with the pace of business.

<sup>1</sup> Forrester, "The Total Economic Impact of Red Hat CloudForms," June 2016.

<sup>2</sup> IDC, "The Business Value of Red Hat CloudForms," September 2016.

<sup>3</sup> IDC, "The Business Value of Red Hat OpenShift," December 2016.

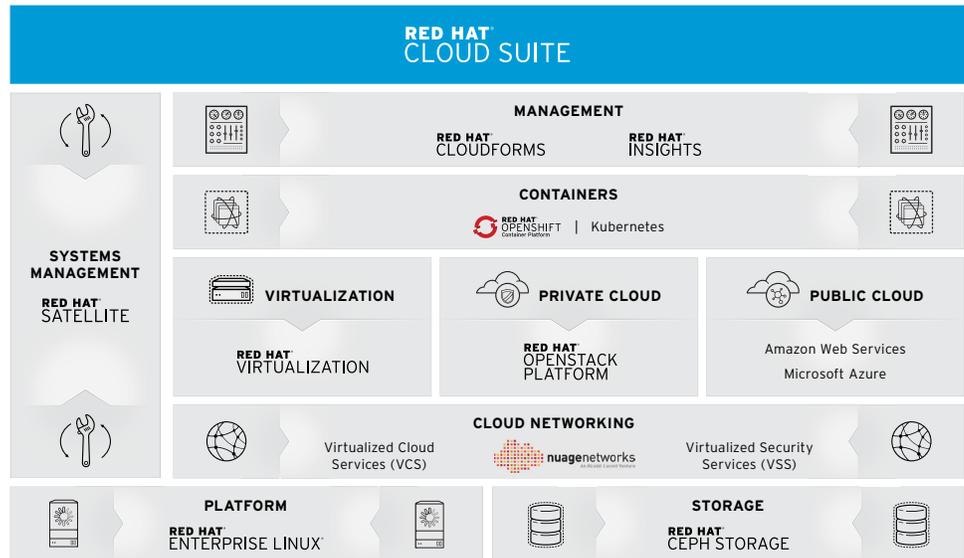


Figure 1. The complete Red Hat and Nuage Networks cloud stack.

## FEATURES AND BENEFITS

With the Red Hat and Nuage Networks cloud infrastructure, you enhance the benefits of cloud technologies through orchestration and automation. You can deliver applications and services faster, respond quickly to new revenue opportunities, streamline operations, and reduce costs, all while maintaining control and compliance across your entire environment.

FEATURE	BENEFIT
Orchestration and automation	Unify and simplify operations and management across physical, virtualized, private and public cloud, and multitenant environments to reduce costs and speed service delivery.
Resource optimization	Allocate the right resources at the lowest cost for the required quality of service at all locations.
Industry-standard, open foundation	Avoid vendor lock-in and improve interoperability with legacy, modern, and future technology.
Proven reference architecture	Reduce project risk and speed time to value for your cloud infrastructure.
Software-defined scalability	Dynamically expand your environment as demand grows while maintaining peak performance.



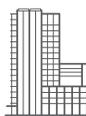
DATASHEET Orchestration for business-focused cloud environments

FEATURE	BENEFIT
Integrated security	Protect your infrastructure from platform to application across your entire environment, including multiple sites, tenants, and infrastructures.
Automated policy application	Retain control and compliance across your infrastructure without manual intervention.
Multiplatform support	Unify bare-metal, virtual, private and public cloud, and container application environments into a single orchestrated infrastructure. Protect existing infrastructure investments.
Large certified partner ecosystem	Incorporate complementary components into your cloud environment with confidence.
Solution support and services	Simplify deployment and operations with a single point of contact for integration issues, support, services, and training.



ABOUT NUAGE NETWORKS

Nu-âh: From French, meaning "cloud." Nuage Networks from Nokia brings a combination of technologies and networking expertise to the enterprise and telecommunications industries. The Silicon Valley-based business has applied new thinking to the problem of delivering massively scalable and highly programmable SDN solutions within and across the datacenter and out to the wide area network with the security and availability required by business-critical environments. Nuage Networks, backed by the rapidly growing IP/Optical Networks business of Nokia, has the pedigree to serve the needs of the world's biggest clouds. The cloud has made promises—the mission of Nuage Networks is to help you realize them.



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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NORTH AMERICA 1 888 REDHAT1	EUROPE, MIDDLE EAST, AND AFRICA 00800 7334 2835 europe@redhat.com	ASIA PACIFIC +65 6490 4200 apac@redhat.com	LATIN AMERICA +54 11 4329 7300 info-latam@redhat.com
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