

Red Hat Helps Radiance Technologies Bring Massively-Scalable and Fully-Open Cloud Infrastructure to the U.S. Department of Defense

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Red Hat Cloud Suite brings scalability, automation and enterprise-grade Kubernetes to bear for U.S. Air Force technology migration

SYDNEY--(BUSINESS WIRE)-- OpenStack Summit Sydney 2017 – Red Hat, Inc. (NYSE:RHT), the world's leading provider of open source solutions, is today announcing that Radiance Technologies, Inc., an employee owned small business offering a variety of services and products for government and commercial customers, has deployed a tailored solution on behalf of the Department of Defense (DoD) using Red Hat Cloud Suite, Red Hat's hybrid cloud offering that enables organizations to more easily build and manage cloud-native applications through a single platform.

A DoD contractor since 1999, Radiance received a new task order to help migrate a U.S. Air Force organization from its current network architecture to a scalable cloud infrastructure. To do this, Radiance needed a solution with an agile, automated framework and storage architecture that could handle a large volume of virtual machines (VMs). Additionally, Radiance had only 90 days to provision and deploy this new solution from scratch. After reviewing competitive cloud solutions, Radiance selected Red Hat Cloud Suite, as it is designed to provide an end-to-end, deployment-ready offering for enterprise digital transformation.

This customer's mission demanded a rapidly scalable architecture that is both dynamic and resilient; dynamic in that it must be able to handle hundreds of robust VMs, and resilient in that it must be capable of rapid automated redeployment, if required. To add to the complexity, because of the organization's specific security requirements, this environment must be able to operate in a complete stand-alone mode. To meet these needs, Radiance, supported by Red Hat, used many of the technologies comprising Red Hat Cloud Suite, including:

Red Hat OpenStack Platform, supported by Red Hat Ceph Storage, to enable a massively scalable, highly agile private cloud infrastructure along with enabling rapid provisioning of virtual machines. Red Hat OpenStack Platform also features composable roles. Composable roles helps IT administrators tailor where each service, such as compute, networking, or storage, should run, which is designed to improve resource scalability and make it easier to manage individual services.

Red Hat OpenShift Container Platform, Red Hat's enterprise-grade Kubernetes-based container application platform, helps Radiance to containerize new applications while supporting existing workloads.

Red Hat CloudForms, Red Hat's multi-cloud management platform, enables policy controlled management and automation of IT services. The platform allows IT operations teams to detect and respond to environment changes by tracking activities, capturing events and detecting configuration changes, as well as provides the ability to monitor utilization and capacity for governance and compliance enforcement.

Red Hat Ansible Tower, in addition to Red Hat Cloud Suite, provides automation and automation governance capabilities, including VM configuration, management and provisioning, for complex multi-tier deployments.

With the technology requirements and turnaround time, Red Hat Consulting also assisted Radiance, tailoring this particular build and environment to the unique needs of the DoD. Red Hat Consulting also assisted in the knowledge transfer and training, helping Radiance to plan, build and deploy the solution designed to meet the DoD's needs.

Supporting Quotes

Paul Smith, senior vice president and general manager, U.S. Public Sector, Red Hat

"Given the breadth and complexity often involved in defense IT, the capability to more easily build cloud-native applications, deploy them and manage these workloads in a single platform can be important. Red Hat Cloud Suite is designed to provide the technologies to drive transformation in a ready-to-deploy solution that can fit specific infrastructure needs. We're proud to have collaborated with Radiance on a solution that not only helps to better equip a U.S. Air Force organization, but also provides the Department of Defense with a flexible, scalable and powerful set of tools to develop their own digital services and cloud-native applications internally."

Timothy Autry, assistant vice president, Cyber Engineering Operations, Radiance Technologies, Inc.

"Radiance needed a partner that could rapidly respond to our Air Force customer's robust cloud requirement. Other companies we spoke with were simply unable to meet our needs. Red Hat not only stepped up to the challenge, but also consistently brought their 'A Team' week after week throughout the entire engagement. Red Hat made me feel like making my customer happy was as important to them as it was to me -- and that level of sustained commitment is hard to find these days."

Additional Resources

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