ADVANCED VIRTUAL AND CLOUD MANAGEMENT FOR VMWARE ENVIRONMENTS AND BEYOND

TECHNOLOGY BRIEF

CLOUDFORMS® KEY FEATURES:

Centralized console management

Capacity management and planning

Resource optimization

Virtual machine life cycle management

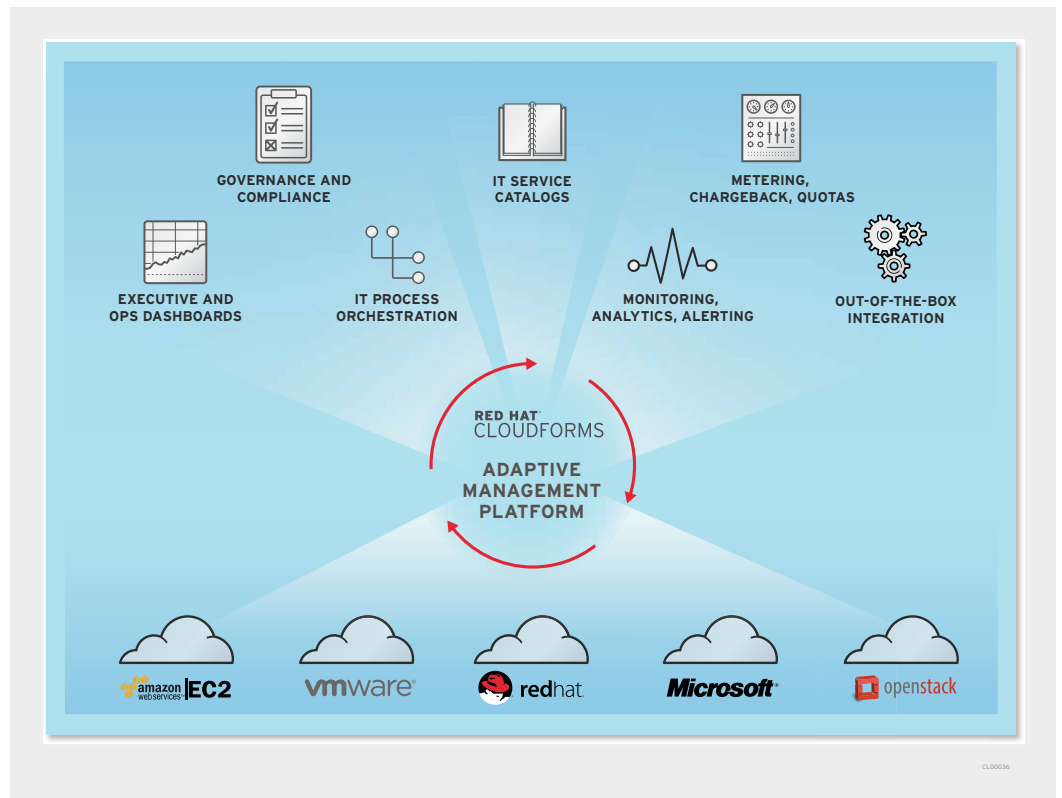Automated, self-service provisioning

Cost allocation (chargeback)

Quota enforcement

Access and usage governance

Trying to decide between adding advanced virtualization capabilities to your VMware environment or transforming your organization for cloud?

Existing VMware management offerings may lack the advanced virtualization management capabilities you need. Are you concerned about investing in another solution that might not provide the cloud management capabilities your organization will require in the coming years?

Whether you are focused on gaining control of your virtualization environment or are seeking to put management capabilities in place to operate a private or hybrid cloud, Red Hat® CloudForms can do both. CloudForms, a comprehensive management platform, is designed to secure your investment for the future and eliminate disparate tool sprawl. Therefore, the solution reduces problems with integration, multiple interfaces, and the rising costs and training needs associated with multiple products and vendors.

GOVERNANCE AND COMPLIANCE

IT SERVICE CATALOGS

METERING, CHARGEBACK, QUOTAS

EXECUTIVE AND OPS DASHBOARDS

IT PROCESS ORCHESTRATION

MONITORING, ANALYTICS, ALERTING

OUT-OF-THE-BOX INTEGRATION

RED HAT® CLOUDFORMS

ADAPTIVE MANAGEMENT PLATFORM

amazon web services | EC2   vmware   redhat   Microsoft   openstack

CloudForms allows your organization to address a range of virtual environment problems — monitoring, tracking, capacity management, resource utilization/optimization, virtual machine (VM) life cycle management, and policies to govern access and usage — while allowing you to evolve at your own pace to a private or hybrid cloud model without future management investment.

If and when you want to operate a cloud model, CloudForms delivers self-service cataloging with policy-based control to manage requests with agility. It provides a centralized management console across multiple virtualization infrastructure providers and public clouds.

With your choice of infrastructure providers, you can capitalize on existing platform investments or introduce new, cost-effective ones. CloudForms also equips you for quota enforcement, usage, chargeback, and cost allocation, letting your organization truly evolve to IT-as-a-Service. Red Hat provides all of these capabilities with dashboards, reports, policies, approval workflows, and alerts — ensuring you remain in control.

RED HAT CLOUDFORMS FEATURES AND CAPABILITIES:

Self-service catalog and automated provisioning: Handle service catalog requests across VMware, Red Hat, Microsoft virtualization, and Amazon public cloud offerings. Role-delegated automated provisioning and quota enforcement dramatically reduce service delivery times and ensure IT control.

Governance: Automate policy enforcement, optional approval workflows, and role-based access controls for managed systems ensure security and compliance. They also reduce the delay, effort, cost, and potential for errors involved in manually enforcing policies and changing system configurations and resource allocations.
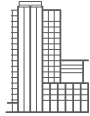
Resource optimization: Find VMs that are over- or under-allocated, and identify current and future bottlenecks. Discover idle VMs that are using CPU, storage, and network resources needlessly and implement automatic VM aging and retirement, snapshot management, and resource policy enforcement with best-fit placement for new VMs.

Capacity planning: Anticipate and plan for future resource needs based on capacity, trending, data, and analytics. Classify resources based on configuration, performance, capacity, cost, acceptable use, and locations. Test what-if scenarios and simulate allocation of resources for planning.

Capacity management: Ensure that resources are automatically and optimally utilized to ensure service availability and performance. Capacity management includes the abilities to discover and track resource changes, provision and de-provision resources based on policies and demand, and identify the current condition of resources.

Cost allocation (chargeback/showback): Charge by disk capacity used, CPU consumed, or network bandwidth used, and charge by hourly, weekly, monthly, or annual usage with detailed usage tracking.

Federated management/centralized console: Manage large and globally distributed virtualization and public cloud infrastructures from a single management console. View comprehensive reports and dashboards that show dynamic workload inspection, operations, compliance, configuration, utilization, trending analysis, events, and timelines.

WHY CLOUDFORMS?

Low acquisition cost: Like all Red Hat offerings, CloudForms is sold via an annual subscription;
therefore, there are no initial license fees and costs are easy to predict and manage.

Fastest time to value: CloudForms installs rapidly as a virtual appliance and is agent-free.
Auto-discovery of your environment means value in hours versus days or weeks; and you have
one management system to learn and maintain instead of multiple tools or interfaces with rising
support and maintenance costs. CloudForms can integrate as needed with larger management
systems, including those from BMC, CA, HP, Microsoft, and ServiceNow.

Increased automation and continuous optimization: Through policy-based controls and
automated responses, you can maximize resource efficiency and control of IT capital costs by
increasing utilization. Increased automation supports higher operational efficiency in build, test, and
automate sequences. CloudForms significantly reduces human interaction and errors, and gives you
the ability to manage with lower costs.

Open and flexible solution: CloudForms prevents vendor lock-in and allows for choice of
infrastructure by using existing IT investments while supporting the seamless introduction of new,
lower cost platform alternatives. You have your choice among VMware, Red Hat, and Microsoft for
virtualization platforms, and Amazon for public clouds.

More efficient users and customers: Empower your users through self-service with web-based
portals, accompanied by fine-grained access control and support for request management, tracking,
and approval.