Red Hat CloudForms

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Users running wild

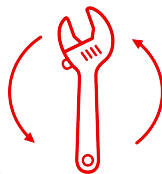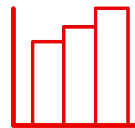# CloudForms Use Cases

On-Premises IT Lifecycle Management - Discover & manage existing infrastructure and unify management across private cloud environments

Policy Driven Self-Service Provisioning and Day 2 Operations - Implement corporate infrastructure policies.

Capacity Planning - Control sprawl, optimize capacity, and right-size workloads

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Business Values

OPERATIONAL EFFICIENCY
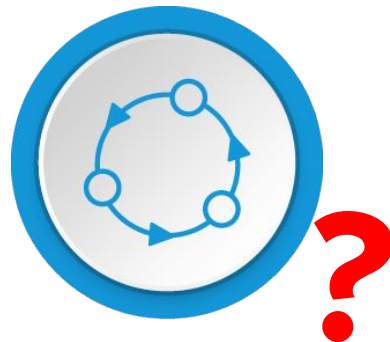
USER EXPERIENCE

POLICY & COMPLIANCE

TIME TO MARKET

IT Operational efficiency

- How many nodes/ networks / storage do I actually have across all my deployments?

- Where are my resources located and how are they connected?

- How can I troubleshoot issues across the stack?

- How can I automate common tasks?

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IT Operational efficiency

- CloudForms continuously discovers your infrastructure in near real time.

- CloudForms discovers and visualizes relationships.

- CloudForms tracks compute, storage and networking.

- CloudForms offers custom automation via control policy or UI extensions.

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User Experience

- ⚪ Are my configurations correct and not drifting?

- ⚪ How I can get notified of issues?

- ⚪ Are my resources sized correctly?

- ⚪ Do I have enough spare capacity? When will I run out?

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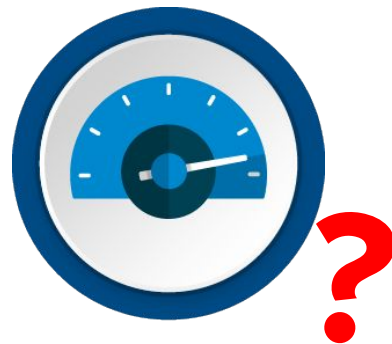
User Experience

- CloudForms enforces configuration and tracks it over time.

- CloudForms alerts on performance thresholds or other events.

- CloudForms offers right-sizing recommendations.

- CloudForms provides optimization and planning capabilities

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Policy & Compliance

- Do my nodes and VMs comply with my enterprise policy?

- Are my developers using untrusted software?

- Do I have VMs running with unauthorized users?

- Has my configuration changed over time?

- How can I limit permissions on my users?

Policy & Compliance

- CloudForms finds and marks nodes and VMs non-compliant with policy.

- CloudForms retrieves packages, init processes and files.

- CloudForms can retrieve information about users and groups.

- CloudForms can compare the VM config over time

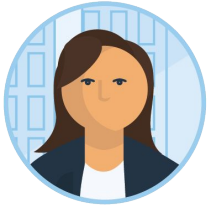- CloudForms can provide granular RBAC in OpenStack as well as tenant synchronization

Time To Market
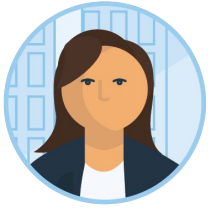
- How can I select what's available for my users?

- How can I standardize my deployments?

- How can I automate the most common tasks?

- How can I speed up my deployments?

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Time To Market

○ CloudForms offers a service catalog

○ You can create custom buttons with specific scopes

○ CloudForms ships Ansible Automation insider

○ You can customize your state machines to include any step you want

What is CloudForms

Red Hat® CloudForms® is an on-premise infrastructure management platform that allows IT departments to control users' self-service abilities to provision, manage, and ensure compliance across virtual machines and private clouds.

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Red Hat CloudForms

Orchestration and Management for Virtualization and Private Cloud
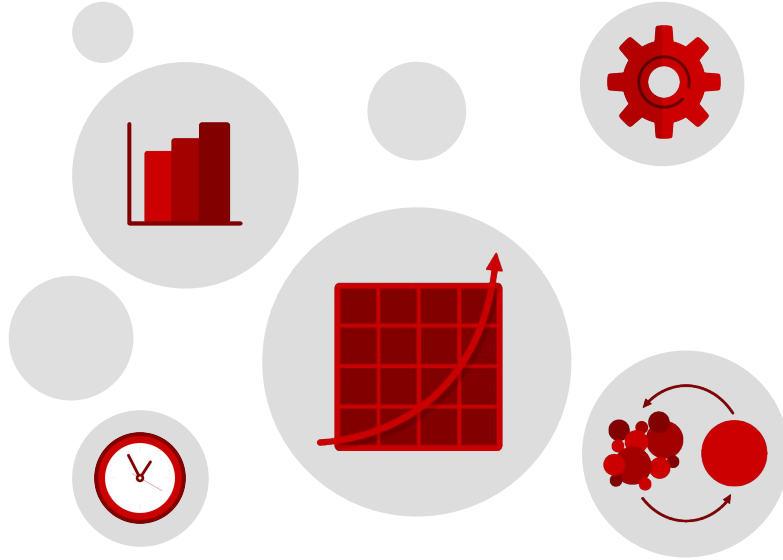
Discovery
Capacity Planning
Reporting
Auditing Compliance
Analysis
Monitoring
Orchestration
Policy

Features

Discover existing objects like VMs, Instances, Clusters, Hosts, ...

RED HAT
CLOUDFORMS

DISCOVERY   CAPACITY PLANNING   REPORTING   AUDITING COMPLIANCE   ANALYSIS   MONITORING   ORCHESTRATION   POLICY

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Features

Collect Usage data to calculate trends
and identify bottlenecks

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CLOUDFORMS

DISCOVERY   CAPACITY   REPORTING   AUDITING   ANALYSIS   MONITORING   ORCHESTRATION   POLICY
            PLANNING   COMPLIANCE

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Features

Use collected data to create reports

RED HAT®
CLOUDFORMS

DISCOVERY   CAPACITY   REPORTING   AUDITING   ANALYSIS   MONITORING   ORCHESTRATION   POLICY
             PLANNING   COMPLIANCE

Features

SmartState Analysis to enforce
Compliance

RED HAT® CLOUDFORMS

DISCOVERY · CAPACITY PLANNING · REPORTING · AUDITING COMPLIANCE · ANALYSIS · MONITORING · ORCHESTRATION · POLICY

FEATURES

Detect drift for root cause analysis

Features

Detect drift for root cause analysis

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CLOUDFORMS

DISCOVERY   CAPACITY   REPORTING   AUDITING   ANALYSIS   MONITORING   ORCHESTRATION   POLICY
            PLANNING   COMPLIANCE

Features

Monitor load of VMs, Hosts, Datastores and Networks

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CLOUDFORMS

DISCOVERY CAPACITY PLANNING REPORTING AUDITING COMPLIANCE ANALYSIS MONITORING ORCHESTRATION POLICY

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Features

Provisioning and Lifecycle Automation

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DISCOVERY   CAPACITY PLANNING   REPORTING   AUDITING COMPLIANCE   ANALYSIS   MONITORING   ORCHESTRATION   POLICY

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Features

Policies to alert and perform action for specific events

Infrastructure Migration Solution
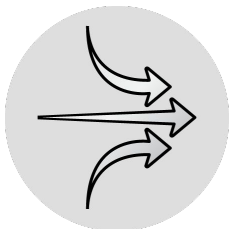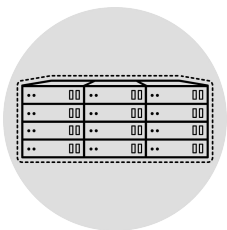
- Combines technologies, consulting services, and leading subscriptions to deliver significant infrastructure savings

- Alternative platforms including Red Hat Virtualization and Red Hat OpenStack Platform

- Provides a modern, flexible infrastructure supporting hybrid cloud and cloud-native architectures

- Safely migrate from proprietary virtualization to flexible open source alternatives

http://red.ht/possibilities

Infrastructure Migration Solution

Three aspects to successful migration
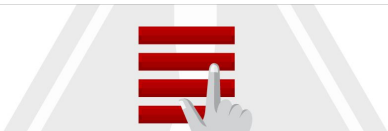
Planning and platform setup

- Define approach and architecture

- Operationalize alternative platform

- Identify and characterize VMs for migration

Migration tooling and approach

- Included comprehensive tooling for VM migration.

- Analyze workloads and develop an approach for migration with key stakeholders to ensure success
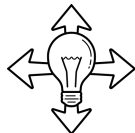
Migration execution

- Validate and refine migration approach

- Pilot migration of a representative set of workloads

- Set the stage to migrate thousands of workloads with a strategic approach and proven tools
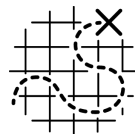
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What's new in CloudForms 4.7?
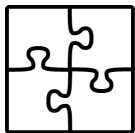
EXTENSIBILITY

ANSIBLE AUTOMATION

KEY ENHANCEMENTS

RHV
OPENSTACK
LENOVO

USABILITY

USER EXPERIENCE IMPROVEMENTS
CENTRALIZED MAIL

NEW FUNCTIONALITY

NEW PROVIDER NUAGE
NEW PROVIDER CNV **TECH PREVIEW**
NEW PROVIDER RED FISH **TECH PREVIEW**

Thank you

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NDA Required

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