



Monitorujte své IT prostředí aneb od vlastního datacentra po veřejný cloud - Red Hat CloudForms (hands-on)

INTEGRATION AND AUTOMATION



Fast, repeatable configuration for virtual resources

RED HAT CLOUDFORMS

Automation, orchestration, and self-service

RED HAT SATELLITE

Provision and update hosts and VMs





RED HAT SERVICE PROVISIONING

HYBRID CLOUD MANAGEMENT AND AUTOMATION

RED HAT CLOUDFORMS



Deliver services across your hybrid cloud

- Hybrid cloud management
- Self-service provisioning
- Policy-driven compliance

Centralize automation governance

- Centralized control
- Team and user delegation
- Audit trail





RED HAT® CLOUDFORMS

Operational Management Across the Stack

- Real-time discovery
- Visualize relationships
- Monitoring and alerts
- Vulnerability scanning
- Security compliance
- Workflow and policy
- Automation
- Chargeback



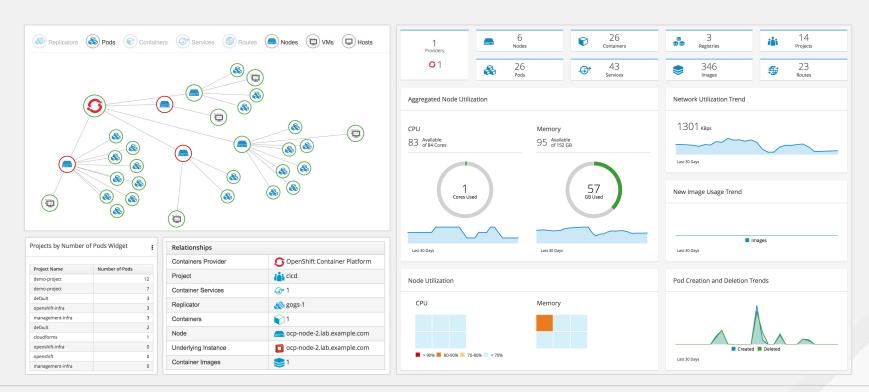
OPERATIONAL EFFICIENCY

- CloudForms continuously discovers your infrastructure in near real time.
- CloudForms discovers and visualizes relationships between infra components
- CloudForms cross references inventory across technologies.
- CloudForms offers custom automation via control policy or UI extensions





OPERATIONAL EFFICIENCY





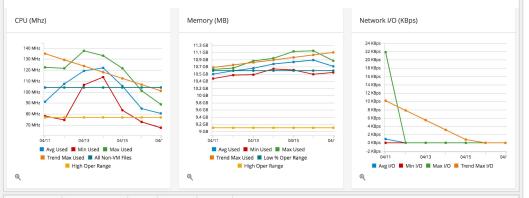
SERVICE HEALTH

- CloudForms monitors resource consumption and shows trends
- CloudForms alerts on performance thresholds or other events
- CloudForms offers right-sizing recommendations
- CloudForms enforces configuration and tracks it over time.





SERVICE HEALTH



Time Stamp	Туре	Name	Event Type	Severity	Message
01/02/18 07:23: 10 UTC	Cluster / Deploym ent Role	Raleig h	Memory Usage	1	Memory - Peak Aggregate Used for Child VMs for Collected Intervals (MB) is projected to reach 765.6 GB (100% of Memory Max Total)
11/01/17 06:18: 52 UTC	Cluster / Deploym ent Role	Raleig h	Memory Usage	1	Memory - Peak Aggregate Used for Child VMs for Collected Intervals (MB) is projected to reach 689 GB (90% of Memory Max Total)
07/31/17 04:42: 25 UTC	Cluster / Deploym ent Role	Raleig h	Memory Usage	2	Memory - Peak Aggregate Used for Child VMs for Collected Intervals (MB) is projected to reach 574.2 GB (75% of Memory Max Total)
02/26/17 02:01: 39 UTC	Cluster / Deploym ent Role	Raleig h	Memory Usage	3	Memory - Peak Aggregate Used for Child VMs for Collected Intervals (MB) is projected to reach 382.8 GB (50% of Memory Max Total)

Normal Operating Ranges (up to 30 days' data)

	Max	High	Average	Low
CPU	745.90 MHz	705.74 MHz	663.99 MHz	622.23 MHz
CPU Usage	100.00%	15.36%	14.10%	12.84%
Memory	7.7 GB	7.57 GB	7.37 GB	7.18 GB
Memory Usage	65.00%	63.46%	61.78%	60.11%

Right-Sizing (Conservative - derived from Absolute Maximum)

	Current	Recommended	% Savings	Savings
Processors	4	5	-25.0%	-1
Memory	12288 MB	7988 MB	35.0%	4300 MB

Right-Sizing (Moderate - derived from High NORM)

	Current	Recommended	% Savings	Savings
Processors	4	1	75.0%	3
Memory	12288 MB	7800 MB	36.5%	4488 MB

Right-Sizing (Aggressive - derived from Average NORM)

	Current	Recommended	% Savings	Savings
Processors	4	1	75.0%	3
Memory	12288 MB	7596 MB	38.2%	4692 MB



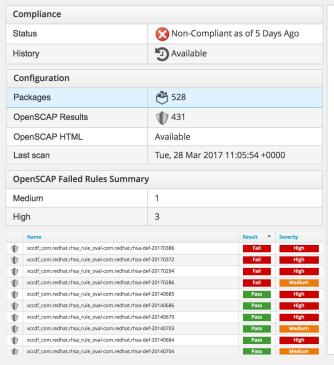
SECURITY & COMPLIANCE

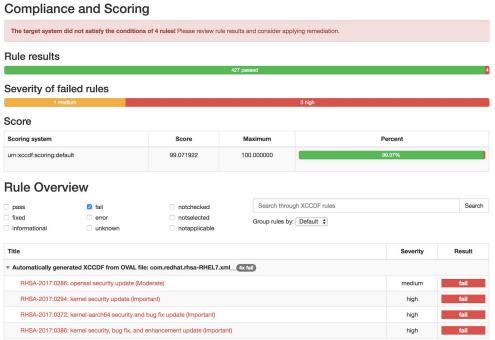
- CloudForms finds and marks nodes non-compliant with policy.
- CloudForms allows reporting on container provenance.
- CloudForms scans container images using OpenSCAP.
- CloudForms tracks genealogy between images and containers.





SECURITY & COMPLIANCE







FINANCIAL MANAGEMENT

- Define cost models for infrastructure and understand your cost.
- Rate schedules per platform and per tenant with multi-tiered and multi-currency support
- CloudForms shows top users for CPU, memory, as well as cost.
- Chargeback/showback to projects based on container utilization.





FINANCIAL MANAGEMENT

VM Name	CPU Usage	Allocated vCPUs		VM Vendor
overcloud1-telus	21.4%		8	vmware
manageiq-euwe-2	18.3%		4	redhat
manageiq-euwe-3	14.0%		4	redhat
Lenovo XClarity Administr ator - Do not delete	9.1%		2	vmware
vcenter6	8.0%		4	vmware

VM Name	Memory Usage	Allocated Memory
CF41_DB	100.0%	16 GE
CF42_UI2	97.7%	8 GE
CF42_UI1	97.7%	8 GE
manageiq-euwe-3	97.6%	8 GE
CF42_google1	97.0%	8 GE

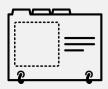
Saved Report "ChargeBack by Project - Tue, 18 Apr 2017 17:59:28 +0000"

Date Range	Project Name	Project Uid	Cpu Cores Used Cost	Memory Used Cost	Total Cost
04/17/2017	cicd	b8f35aee-e974-11e6-89d9-fa163ec3f31d	\$24.00	\$30.33	\$66.34
04/17/2017	default	4c767b2b-df4d-11e6-8850-fa163ec3f31d	\$24.00	\$4.90	\$40.90
04/17/2017	ifixed	acc6113d-ed77-11e6-8c6a-fa163ec3f31d	\$24.00	\$28.77	\$64.77
04/17/2017	jritenour-demo	47ee9d2a-efae-11e6-8c6a-fa163ec3f31d	\$24.00	\$28.80	\$64.80
04/17/2017	mlbparks	4666e252-e296-11e6-8a49-fa163ec3f31d	\$24.00	\$406.96	\$442.96
04/17/2017	openshift-infra	4e37af93-df4d-11e6-8850-fa163ec3f31d	\$24.06	\$992.75	\$1,290.78
04/17/2017	stage	b771432a-e974-11e6-89d9-fa163ec3f31d	\$24.00	\$491.89	\$527.89
04/17/2017					
Totals:			\$168.07	\$1,984.40	\$2,498.43
All Rows					
Totals:			\$168,07	\$1,984.40	\$2,498.43



RED HAT® CLOUDFORMS & RED HAT® ANSIBLE AUTOMATION

COMPLETE SELF-SERVICE AND AUTOMATION FOR I.T. PROCESSES



Visibility, efficiency, and optimization

Improve resource utilization and operational efficiency



Self-service and service management

Automate and delegate service delivery processes, saving time and money



Compliance and governance

Responsibly enable users and developers, without being in the way







KEY TAKEAWAYS



Path 6: Manage IT with automation

- IT services can be delivered rapidly via a self-service portal.
- Automating IT processes, like service provisioning or problem identification and remediation, saves time.

