

CLOUDPHYSICS PRODUCT OVERVIEW

Always-On Analytics for vSphere

CloudPhysics continually analyzes your vSphere environment, tracking changes, projecting trends, and proactively surfacing the hot spots you need to pay attention to now – before they cause problems. We deliver unique, meaningful insights that give vSphere administrators the confidence to act boldly to reduce risk and trim waste, without compromising the safety of your virtual infrastructure or the applications it supports.

At the heart of reducing risk is understanding change and its impact. CloudPhysics solves problems associated with change by telling you what changed and when. The result is that you can quickly unravel human-related errors associated with bad configurations or change drift, as well as preempt change-related errors by identifying best practice alignment. Your organization will benefit from reduced risk and greater efficiency through improved productivity and cost savings.

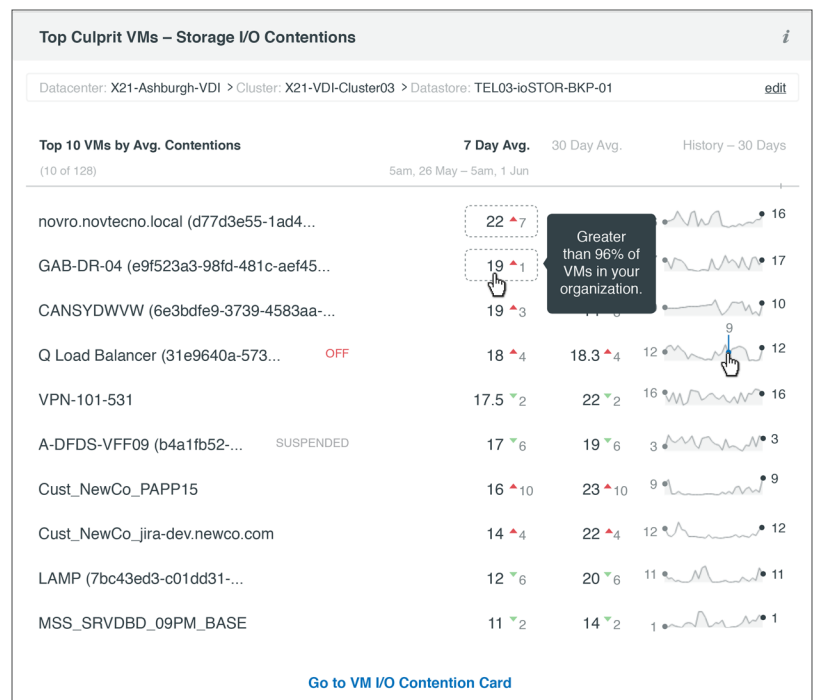
"We chose CloudPhysics because it's always on duty, continuously examining our infrastructure for hazards and letting us know when there's something on the horizon we should pay attention to. With CloudPhysics, we can better meet our SLAs and at the same time reduce the risk of disruption to our applications and our business."

Matt McNair, Architect,
Threshold Enterprises

Key Capabilities

CloudPhysics is an intuitive, easy-to-use SaaS application, enabling you to:

- **Gain instant visibility across your entire infrastructure.** View and analyze your entire vSphere infrastructure, with aggregation summaries, rich filtering, and drill down and across. View aggregate reports, configuration changes, and cluster performance from across all your vCenters in one place.
- **Identify hot spots before they ignite.** Find performance and resource contention in your clusters with CloudPhysics trending and predictive analysis. Sort out the culprits from the victims in different contention scenarios to take rapid, effective actions to resolution.
- **Explore changes over time.** Discover what changes preceded an application disruption. Correlate performance with configuration changes, events, and issues to a common timeline that can be searched and zoomed in/out for viewing different time slices.
- **Discover the direction a problem is headed or root cause in just a few clicks.** See the emerging severity of problems to neutralize impact, using contextual dashboards containing trending analysis.
- **Validate planned changes with data-based insights.** Avoid application disruptions during upgrades, migrations or reconfigurations. Use compatibility simulations, best practice health checks, and a Knowledge Base Adviser service to continuously analyze your infrastructure before you change it.
- **Create custom analyses and reports without scripting.** Build reports and analyses in minutes, not days – accessing the entire vSphere API plus unique custom objects.
- **Start in 15 minutes.** Take just 15 minutes to install our small, read-only vApp (the CloudPhysics Observer). No hardware, no software, zero future maintenance.



Find contention in your clusters with trending and predictive analysis. Sort out the culprits from the victims to take rapid, effective actions.

Core Features

Administrators control vSphere infrastructure through various and complex configuration knobs and dials they set, monitor, and maintain over time. Applications behave and perform within these structural constraints. CloudPhysics focuses on these configurations and their relationship to workload behavior, targeting operational hazards and hot spots that arise from misconfigurations or the misalignment of infrastructure capabilities to application needs.

Always-on analytics

- Continuous diagnosis of infrastructure through unique data collection and data science analytics applications
- Changes continuously captured, recorded and reflected
- Unique data derivations, correlations, mashups and filters reduce “noise” and expose true hazards
- Ongoing “learning” to algorithmically deepen insights and trends

Configurable dashboards

- Rich contextual views surface hot spots and potential risks before problems form and impact operations
- Trending analysis consolidating multiple objects and views, enabling multi-dimensional correlation
- Varying time series views consolidated into one pane to indicate duration and direction of issues
- Filtering with configurable scope and type of objects

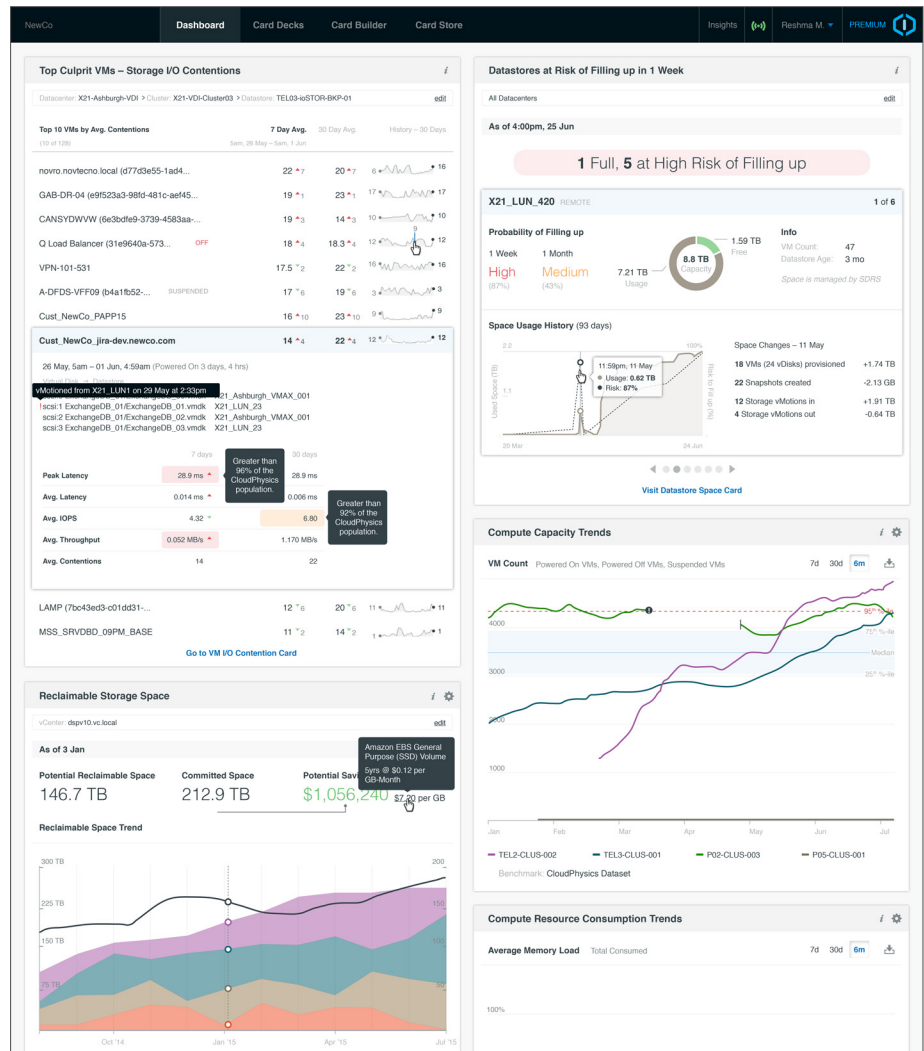
Exploration mode

Time series data is uniquely handled by the CloudPhysics platform to enable a user to analyze multiple dimensions of the infrastructure around the same time axis. New forms of “mash-ups” set in the contexts created by CloudPhysics, its partners, and users, dramatically improve the insights needed for operational effectiveness.

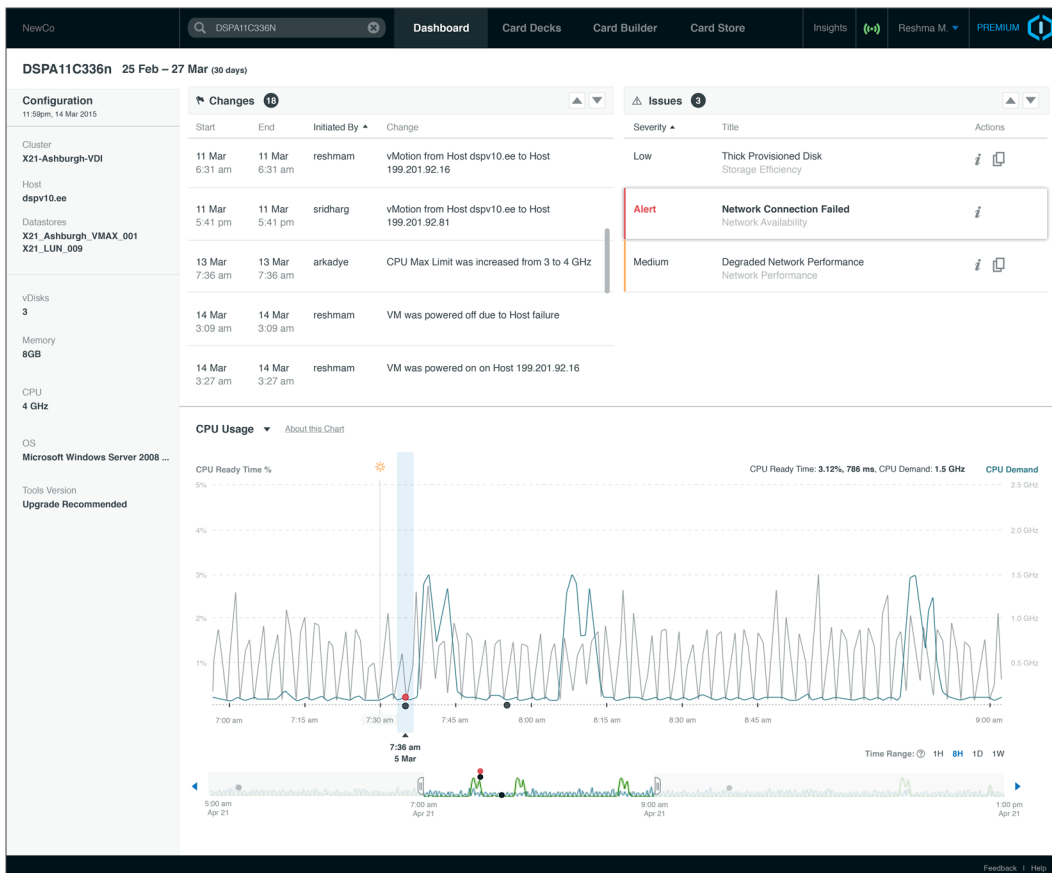
- Interactive ability to analyze changes over time through easily manipulated exploration mode, using time slices with zoom in/out capabilities to evaluate correlations and causation
- “Correlate in context” to troubleshoot application disruptions with data drawn from VM performance/resource consumption; change/event log; configuration history; and known issues associated with operational hazards and best practices
- Rich view in the context of the problem and its cause or direction

Extensive card library

CloudPhysics features an extensive and ever-growing card library, where scores of focused analytics, called “cards,” are available to users to support various vSphere management use cases, not just for operational hazards but also for ongoing health checks, performance troubleshooting, infrastructure optimization and space savings, best practice alignment, and more.



CloudPhysics configurable dashboards provide contextual, interactive views of hot spots and hazards that need attention now.



CloudPhysics' exploration mode enables admins to easily and interactively analyze changes over time, using time slices with zoom in/out capabilities to evaluate correlations and causation.

Card Builder for custom analytics and reporting

Creating your own powerful insights on the CloudPhysics platform is easy; the entire vSphere API has been wrapped with a simple drag-and-drop visual query builder, eliminating the need to script or program. In addition, custom CloudPhysics objects resulting from our unique data collection and transformations are available as properties in Card Builder.

Sharing

CloudPhysics makes sharing insights among approved persons inside or outside your organization fast and simple. Share the entire platform or just individual cards with others, providing them with a current view of the data. The ability to share (and un-share) insights amplifies the benefit of CloudPhysics across your organization.

About CloudPhysics

CloudPhysics provides data-driven insights for smarter IT, with operational analytics that give IT teams more power than ever before to understand, troubleshoot, and optimize their virtualized datacenters, reducing risk and waste. The company, based in Mountain View, Calif., serves thousands of users worldwide across a variety of industries.

"CloudPhysics has baked years of domain knowledge and Big Data expertise into how they collect, transform and analyze operational data, making it easy for our team to gain rich, meaningful and actionable insights to better manage our virtual infrastructure. Since our critical business applications are virtualized, CloudPhysics is essential to managing the availability of those applications."

Drew Del Matto
CFO of Fortinet