



EBOOK

CloudPhysics

A SaaS-based Big Data analytics platform for virtualised infrastructures.



Introduction

What is CloudPhysics?

HPE CloudPhysics is a cloud-based analytics platform that provides real-time insights and recommendations to help you optimise your virtualised infrastructure. It is designed to help IT professionals manage their virtualized infrastructure more efficiently, identify performance issues, and improve capacity planning.



CloudPhysics Capacity Planning

CloudPhysics uses a data-driven approach to analyse infrastructure performance data and provide actionable insights. It collects data from various sources, including hypervisors, storage systems, and network devices, and provides detailed reports and recommendations that can help you optimise your infrastructures performance.

The screenshot displays the HPE CloudPhysics web interface. At the top, there's a navigation bar with 'Customers' and 'Campaigns' tabs. Below this, a table lists customer information. The 'Data Collection Status' section shows a table of data sources and their collection status. The 'Assessments' section shows a table of various assessments performed.

Customer	Customer Contact	Internal Contact	Active Assessments	Datasource Type	Customer Edition	Assessment Expiration	Expiry Expiration	Days Left
Demo Customer	Demo User	Internal Contact	0	VMware and AWS	Premium	N/A	31 Dec 2021	25

Datasource	Type	Status	Last Received
demo.cloudphysics.com	VMware	Online	6 minutes ago
AWS Prod	AWS	Success	6 minutes ago
AWS Test	AWS	Success	6 minutes ago
AWS Test 2	AWS	Success	6 minutes ago

Account Team	Start Date	End Date	Status
Cloud Physics	24 Jul 2017		OK
Customer Success	26 Dec 2018		OK
Cloud Physics	25 Jun 2018		OK
Cloud Physics	5 Dec 2017		OK
Partners Tech Data US	11 Jul 2017		OK

Assessment	Created On	Start Date	Expiration Date	VMs / Instances
Azure Assessment	18-Aug-2020	18-Aug-2020	1-Sep-2020	630 / 0
Azure Assessment	29-Feb-2020	29-Feb-2020	13-Mar-2020	921 / 0
Cloudbraker assessment	10-Jan-2020	10-Jan-2020	9-Feb-2020	821 / 0
Demo - Infrastructure Sum	15-Aug-2019	15-Aug-2019	29-Aug-2019	833 / 0
Demo GCP-virtual Assessment	6-Oct-2018	6-Oct-2018	7-Nov-2018	804 / 0

CloudPhysics Reports

The information gathered from the capacity planning reports will be used to aid in the decision-making process when re-architecting your IT environment.

Common CloudPhysics reports include

Performance Reports: These reports provide a comprehensive view of the performance metrics of your infrastructure components, such as CPU usage, memory utilisation, storage IOPS, and network throughput. Performance reports help identify potential bottlenecks, underutilised resources, and areas for improvement.

Capacity Planning Reports: These reports analyse historical usage trends to forecast future capacity requirements. They enable IT teams to make informed decisions about infrastructure expansion or consolidation, ensuring that resources are used efficiently.

Cost Optimisation Reports: CloudPhysics cost optimisation reports help organisations understand the cost implications of their infrastructure choices. These reports compare different infrastructure configurations and cloud service options, providing insights into the most cost-effective solutions for your specific needs.

VM Right-Sizing Reports: These reports analyse VM resource consumption and help you identify opportunities to right-size VMs by reallocating resources or migrating workloads to more appropriate infrastructure. This can lead to significant cost savings and improved performance.

Storage Reports: Storage reports provide insights into storage capacity, utilisation, and performance. These reports help identify potential storage issues, optimise storage configuration, and plan for future storage requirements.

Risk Assessment Reports: These reports highlight potential risks in your data centre environment, such as single points of failure, outdated firmware or software, and security vulnerabilities. Risk assessment reports help you prioritise and address these issues to ensure the reliability and security of your infrastructure.



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