HPE GreenLake

HPE InfoSight

Artificial intelligence for autonomous infrastructure

Product overview

HPE InfoSight transforms how infrastructure is managed and supported.

Predictive support
- Predicts and prevents issues
- Solves problems across infrastructure
- Redefines the premiere support experience

AI-driven operations
- Makes managing effortless
- Provides instant global visibility
- Sees what others can't

Intelligent infrastructure
- Makes infrastructure smarter
- Enables infrastructure to self-improve
- Drives up availability

The end of application disruptions and wasted time

Your business can't afford any disruptions or delays. And you want nothing more than to spend less time on infrastructure. However, the complexity inevitably leads to unexpected problems and your days, nights, and weekends consumed taking care of infrastructure.

You want to move your business forward, but you keep getting held back. As infrastructure becomes increasingly vital and complex, you know this hands-on approach won't work anymore. That's why you keep asking yourself:

- How can I ensure nondisruptive availability for my applications?
- How can I optimize my ever-changing workloads?
- How can I tune my infrastructure for better performance?
- How can I stop the firefighting?

Now there's an answer. **It's called** HPE InfoSight.

Make infrastructure invisible with AI

Every organization wants to unlock agility, drive innovation, and move faster. This requires an end-to-end cloud operational experience that transforms IT operations to an application-centric approach and makes infrastructure invisible.

HPE InfoSight, the industry's most advanced AI for infrastructure, powers that cloud operational experience. Our decade long history of pioneering innovations include the ability to act in real-time based on embedded intelligence on storage systems and transforming storage provisioning to be intent-based enabling anyone to provision an app workload intelligently and automatically on the right infrastructure across a customer's fleet. Such AI-driven intelligence makes our infrastructure self-managing, self-optimizing, and self-healing.

Every second, HPE InfoSight collects and analyzes millions of sensor data points from systems across the globe. Since 2010, it has analyzed more than 1,250 trillion data points and saved enterprises more than 1.5 million hours of lost productivity.

Bringing autonomous infrastructure within reach

HPE InfoSight uses the power of cloud-based machine learning (ML) to drive Global Intelligence and insights for infrastructure across servers, storage, and virtualized resources. The platform radically simplifies IT operations by predicting and preventing problems across the infrastructure stack and making decisions that optimizes application performance and resource planning.

150,000+
systems connected in the cloud

1,250+
trillion data points analyzed since 2010[1]

1.5M+
hours saved with predictive analytics[2]

Financial impact of HPE InfoSight

Infrastructure powered by HPE InfoSight translates directly into significant financial impact. Enterprise Strategy Group researched hundreds of HPE Nimble Storage and third-party customers and arrived at these conclusions:

79%
lower storage operational expenses

73%
fewer trouble tickets in the environment

85%
less time spent resolving storage-related trouble tickets

69%
faster time to resolution for events that necessitate level 3 support

Machine learning in the cloud

Getting smarter every second
HPE InfoSight sees beyond the limits of humans and other tools because of its unique approach to data collection and analysis. Every second, millions of sensor measurements capturing the state of the systems, subsystems, and surrounding IT infrastructure in our global installed base are collected and analyzed.

Global Intelligence
HPE InfoSight continuously learns from the telemetry data. It develops an understanding of the ideal operating environment for every workload and application. Advanced ML then drives its **predictive analytics** and **recommendation engines**. Then, problematic behavior is predicted through recognition of the underlining patterns and configurations in each system, driving support automation and automated recommendations.
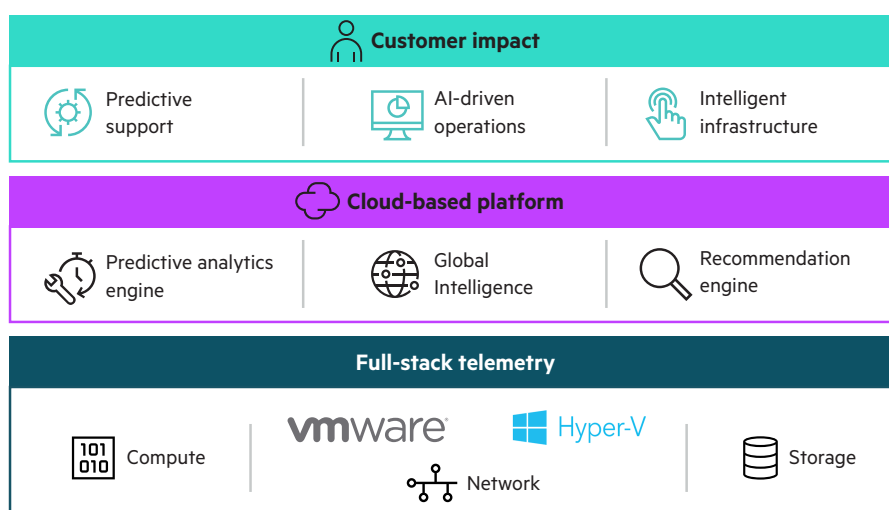

Figure 1. HPE InfoSight platform

Note: HPE systems only send device telemetry data to our cloud-based platform. No customer data stored on the systems is sent to HPE.

> **"InfoSight's predictive analytics have saved us from potentially impactful issues. iland provides 100% availability to our customers, and InfoSight is a huge part in making that happen."**

– Justin Giardina, CTO, iland

Transforming the support experience

Predicting and preventing problems

HPE InfoSight transforms IT operations from reactive to predictive. Instead of fighting fires and dealing with escalations, problems are prevented before they can impact IT.

See once, prevent for all—always

HPE InfoSight puts the focus on prevention. It uses predictive analytics to predict, prevent, and auto-resolve problems from storage to VMs before they can affect your business. Hundreds of predictive signatures from availability, performance, security, capacity, to data protection are continuously monitored in every system across the installed base.

If there is ever a problem experienced in the installed base, HPE InfoSight learns to predict the issue and prevent anyone else from seeing the same problem.
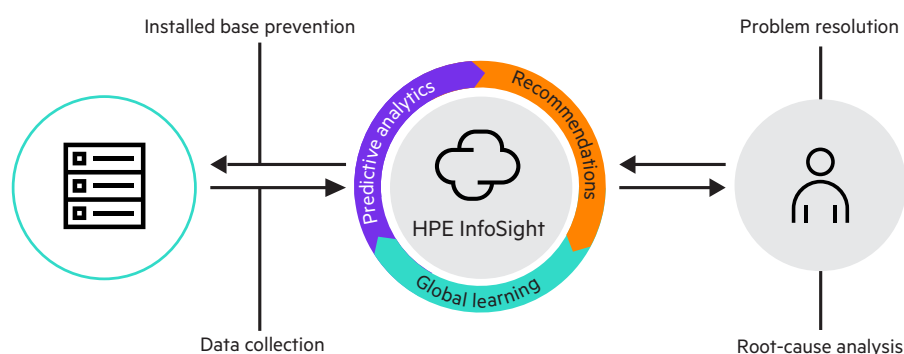
Customer emails to HPE support:

"…support exceeded my expectations…it is rare today to have customer support that actually support you."

"…ROCK STARS."

"…the support experience that you sold us was every bit as good as you sold it. (The Nimble TSE) was able to figure out some things no one else that has looked at this environment has been able to track down."

"Nimble…isolated the problem to a DB issue."

Figure 2. Design approach to predictive support automation

Rapid diagnostics and resolution to complex issues

No need to pull logs anymore as HPE InfoSight has the data about your environment—from storage, servers, to VMs. This drives faster detection, analysis, and remediation of the most complex issues.

Redefining premiere support

If HPE InfoSight detects a problem that can't be automatically resolved, then HPE support engineers investigate and help our customers get back online quickly. The learnings from each case then feeds the predictive analytics engine for future support automation.

Take advantage of the AI-driven experience offered by HPE InfoSight

HPE InfoSight is available to all customers who have a valid support contract with HPE Nimble Storage or HPE Pointnext Services, and have the call-home capability enabled on their HPE systems. This automatically enables predictive analytics capabilities and support case automation, delivered through the HPE InfoSight web portal. To learn more, visit infosight.hpe.com.

[3] Upshot story: Better Visibility and More Intelligent Upgrades with HPE InfoSight

"… I was enticed by the idea of predicting potential problems before they happen. Even better, the (HPE InfoSight) service offers consistent recommendations for optimization and important platform updates. Avoiding problems is one thing, but optimizing the system for increased efficiency delivers much more value to our company."

– Tory Dombrowski, IT Director, Takeform[3]

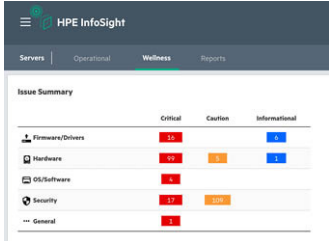# AI-driven operations with intelligent infrastructure

Figure 3. Wellness dashboard

Get instant visibility with a cloud-based portal
HPE InfoSight takes the guesswork out of managing infrastructure. With its cloud-based portal, predictive insights are delivered seamlessly through wellness alerts. The HPE InfoSight web portal is a one-stop-shop for IT admins with no software to install or manage. Its integration across the HPE portfolio of servers, storage, and integrated systems provides a consolidated view of all IT resources. Customers trust HPE InfoSight for the single source of truth it offers for your infrastructure.

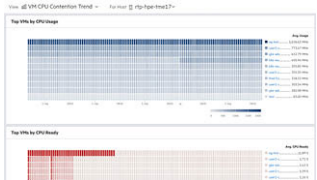To learn more, log onto infosight.hpe.com.

Figure 4. Shower tile view of cross-stack analytics for virtual machines

Optimize your IT using cross-stack analytics
HPE InfoSight tells you how you can improve performance, optimize your resources, and plan for the future. For complex, virtualized environments, its cross-stack analytics pinpoints abnormal performance issues with storage and VMs, or underutilized resources, making infrastructure management effortless.
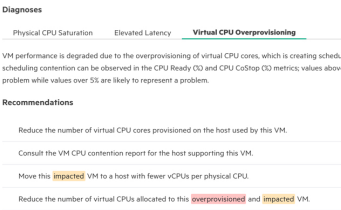

Figure 5. AI-driven diagnoses and recommendations

Get smarter with tuning your infrastructure
There's too much manual tuning day to day. All you want is the best performance and most efficient resources no matter how your workloads change. HPE InfoSight helps automate tuning and gives you the answers before you even ask the question. It automatically identifies opportunities to improve performance and optimize resources with a clear recommendation.

HPE InfoSight prevents overprovisioning on shared storage through what-if simulations that predict performance and capacity consumption for new workloads and any impact to neighboring applications.
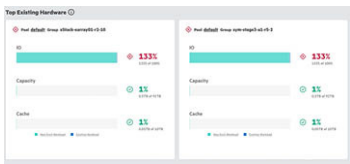

Figure 6. Resource Planner

Make IT planning simple with Resource Planner
HPE InfoSight simplifies infrastructure lifecycle management from planning to expanding. The Resource Planner capability accurately sizes new infrastructure by simulating what-if scenarios. It is an AI-driven, context-based planner for your application workloads. It helps to plan for new workloads, scale existing workloads, or migrate workloads with accurate predictions of capacity, performance, and bandwidth needs.
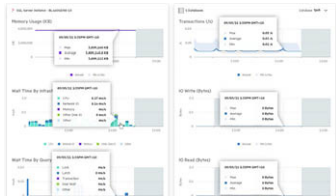

Figure 7. HPE InfoSight App Insights

New: Get next-level application visibility with HPE InfoSight App Insights
App Insights is a new frontier in application performance visibility. With App Insights, HPE InfoSight extends the predictability and visibility up the stack and into applications. It observes your apps and infrastructure, automatically detects unexpected activities, and recommends actions, allowing IT to continuously optimize application workloads, run their applications free from disruptions and resolve application-level problems faster. With HPE InfoSight App Insights, IT operations become more app-centric than before.

AI-driven infrastructure powered by HPE InfoSight

HPE Data Storage portfolio

HPE Alletra	HPE Primera	HPE Nimble Storage	HPE 3PAR Storage

HPE Compute portfolio

HPE Apollo Systems	HPE ProLiant DL	HPE ProLiant ML	HPE ProLiant BL	HPE Synergy

HPE Hyperconverged Infrastructure portfolio

HPE SimpliVity	HPE Alletra dHCI

Figure 8. HPE InfoSight supports an end-to-end portfolio

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