

# HPE INFOSIGHT

Artificial Intelligence for autonomous infrastructure

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## Product overview

HPE InfoSight transforms how infrastructure is managed and supported.

### Predictive support

- Predicts and prevents issues
- Solves problems across infrastructure
- Redefines the white-glove 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](#).**

## UNPARALLELED INTELLIGENCE FOR EVERY DATA CENTER

HPE InfoSight is the industry's most advanced Artificial Intelligence for infrastructure. Every second, it collects and analyzes millions of sensors 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 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<sup>1</sup>

1,250+  
trillion data points  
analyzed since 2010<sup>2</sup>

1.5+  
million hours saved with  
predictive analytics<sup>3</sup>

<sup>1</sup> Based on HPE Storage and Servers connected to HPE InfoSight, October 2019

<sup>2, 3</sup> [h20195.www2.hpe.com/v2/Getdocument.aspx?docname=A00058506ENW](https://www2.hpe.com/v2/Getdocument.aspx?docname=A00058506ENW)

### 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:<sup>4</sup>

- 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

<sup>4</sup> "Assessing the Financial Impact of HPE Nimble Storage Powered by HPE InfoSight, May 2019"

## 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. It develops an understanding of the ideal operating environment for every workload and application. Advanced machine learning 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.

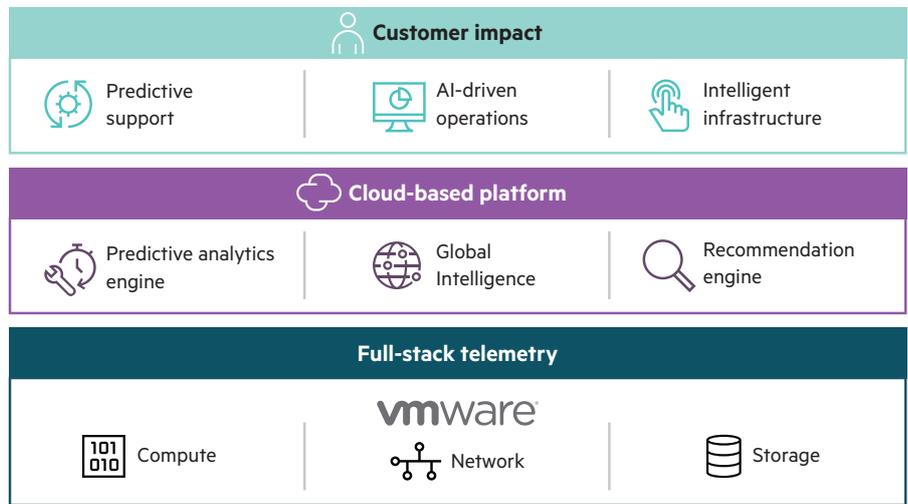


FIGURE 1. HPE InfoSight platform

**“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 Secure Cloud





## TRANSFORMING THE EXPERIENCE WITH PREDICTIVE SUPPORT

### 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 and prevent for all

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.

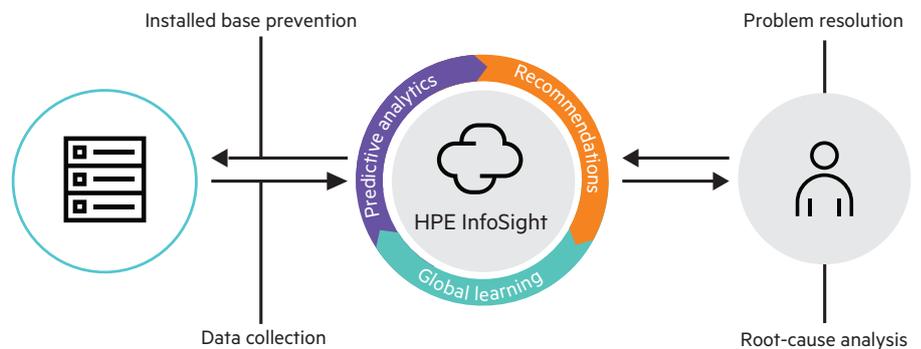
### Customer emails to HPE support:

"...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 white-glove 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.



## AI-DRIVEN OPERATIONS

### Making infrastructure management effortless

HPE InfoSight takes the guesswork out of managing infrastructure. It tells you how you can improve performance, optimize your resources, and plan for the future. And with its cloud-based portal, it's easy for you to take advantage of its intelligence.

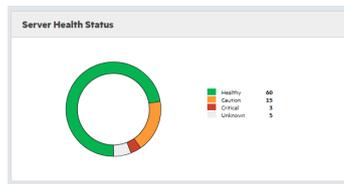


FIGURE 3. Global insights into the server status and health

### Instant global visibility

As a cloud-based application, the HPE InfoSight web portal gives IT a one-stop, one-site, one-place portal for easy access to infrastructure wherever it is in the world. There's no software to install, no software to manage. Its integration across the HPE portfolio of servers, storage, and integrated systems provides a consolidated view of all IT resources.

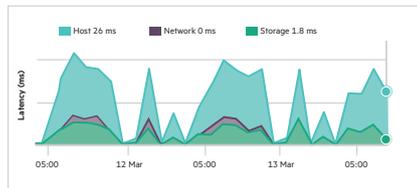


FIGURE 4. Correlated cross-stack analytics

### SEES FROM STORAGE TO VIRTUAL MACHINES

HPE InfoSight sees from the past to the future, up and down your infrastructure stack, and across your systems, providing you a single source of truth for your infrastructure. For complex, virtualized environments, its full-stack analytics pinpoints abnormal performance issues between storage and VMs and underutilized virtual resources without effort from you.

**Diagnosis**

Storage CPU saturation is affecting random read and write performance.

**Recommendations**

1. Consider QoS limits on high CPU volumes
2. Consider staggering workloads on high CPU volumes

FIGURE 5. AI performance recommendations

### GETS MORE OUT OF YOUR RESOURCES

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 over-provisioning on shared storage through what-if simulations that predict performance and capacity consumption for new workloads and any impact to neighboring applications.

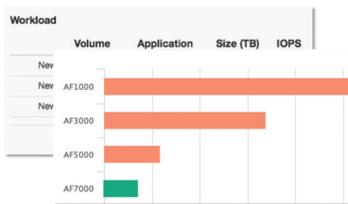


FIGURE 6. What-if sizing for new infrastructure

### MAKES PLANNING SIMPLE

HPE InfoSight simplifies infrastructure lifecycle management from planning to expanding. Its storage resource planner accurately sizes new infrastructure by simulating what-if scenarios. It also accurately predicts capacity, performance, and bandwidth needs with specific upgrades.



## INTELLIGENT INFRASTRUCTURE

### Making infrastructure autonomous

HPE InfoSight is constantly collecting data and learning from customers' workloads—making all customers smarter. HPE InfoSight is a pioneer in the infrastructure space in this new AI-first world and building new AI models to turn insights into actions.

HPE InfoSight is paving the path for autonomous infrastructure—one that self-manages, self-heals, and self-optimizes. Today, HPE InfoSight tells you what to do. Tomorrow, it does it for you.



## DATA CENTER INFRASTRUCTURE SUPPORTED



### HPE Primera

Extreme resiliency and performance with the agility of the cloud on the world's most intelligent storage for mission-critical applications.



### HPE Nimble Storage

Predictive cloud-ready, and timeless for business value today and tomorrow. Experience radical simplicity and 99.9999% guaranteed availability.



### HPE 3PAR Storage

Flexible, scalable Tier 1 all-flash data storage arrays for instant application provisioning and high levels of service—at a fraction of the cost.



### HPE Nimble Storage dHCI

Disaggregated HCI with the simplicity of HCI and the flexibility of converged for business-critical applications.



### HPE ProLiant DL

Secure and versatile rack-optimized servers with a balance of performance, capacity, and manageability.



### HPE ProLiant ML

The ideal choice for remote and branch offices and growing business.



### HPE ProLiant BL

Innovative technology for virtualization and the most demanding workloads.



### HPE SimpliVity

An enterprise-grade hyperconverged platform that speeds application performance, improves efficiency and resiliency, and backs up/restores VMs in seconds.



### HPE Apollo Systems

High-density, rack-scale compute, storage, and networking solutions for massive scale-up/scale-out for Big Data, object storage, and HPC workloads.



### HPE Synergy

World's first platform architected for composable infrastructure, an adaptable hybrid cloud engine built for today's workloads and tomorrow's disruptors.

FIGURE 7. HPE InfoSight supports an end-to-end portfolio

Make the right purchase decision.  
Contact our presales specialists.



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**YOU'RE NOT ON YOUR OWN WHEN  
YOU HAVE HPE INFOSIGHT.**

You have the industry's most advanced AI watching over your infrastructure.

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