



**Hewlett Packard**  
Enterprise

HPE's Intelligent storage is

# Hybrid by design

Keep your data firmly on the ground in your datacenter or send it soaring into the cloud at a moment's notice, with systems like HPE SimpliVity.



# Be at home in a hybrid world.

More than 80% of all organizations have an IT-environment that embraces both cloud services and on-premises infrastructure. That means hybrid-IT is not just the future, it is already the present too.

A hybrid environment will allow you to set the terms. Are you in need of flexibility and scalability for new projects? Then cloud is the way to go. Are you looking for more control, granular security and short reaction times? Then on-premises is what you want. And if your needs change, so does the location of your data.

This all sounds great. But theory and practice are often miles apart, and most organizations are facing similar problems, mostly with data management and operational inefficiency. Over the years, organizations have seen a huge increase in data volumes, and in many cases, that data is largely unstructured and scattered across different platforms and environments. The management and protection of that data has become increasingly complex, and this complexity is often a break on innovation and progress.

At HPE, we are ready to meet those challenges. With robust, performance-driven solutions like HPE SimpliVity, that are tuned to the needs of a hybrid environment, we simplify data management and enable companies to build on their data, to move it, use it and transform it into value. With great speed and rigorous security. And more importantly, with a lot less support, sleepless nights and operational headaches.



# A cloud-like experience across all platforms

So how do you achieve true hybrid efficiency? In one term: software-defined. Virtualization of infrastructure has opened the door to impressive growth in IT-management and operations.

## What is “software-defined”?

Software-defined is a term that is used for the software-driven management of IT-infrastructure.

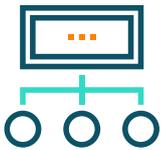
IT-resources are pooled and attributed to workloads through a simple software interface. This allows you to transcend the limitations of physical infrastructure and achieve new levels of flexibility, efficiency and user experience.

So how does it work? HPE developed HPE OneView, a global dashboard for your entire IT-infrastructure. All of your servers, storage and networking are integrated in a simple software platform.

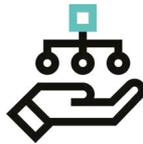
In practice, it will allow you to manage your IT-infrastructure in the same way you manage resources in the public cloud. Spin up VMs, re-locate data and scale up or down without having to rely on physical infrastructure or dedicated resources.

HPE OneView is the first step towards creating a true hybrid environment, with a cloud-like experience, across all platforms.

## The HPE OneView platform will give you:



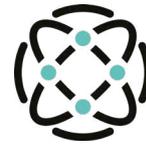
Granular insight into **workloads, usage** and **bottlenecks**



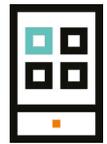
The freedom to **allocate resources** on the go



The flexibility to **eliminate unused capacity**



The chance to **auto-mate operational tasks**



Increased **time-to-market** for new apps, services and ideas

...and a consistent, integrated experience, from core to cloud.



# Intelligence to take the next step.

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But how do you ensure application performance, data availability and a fast root cause analysis when things go wrong? Many organizations are still struggling with a reactive, break-fix approach to problems, disruptions and downtime.

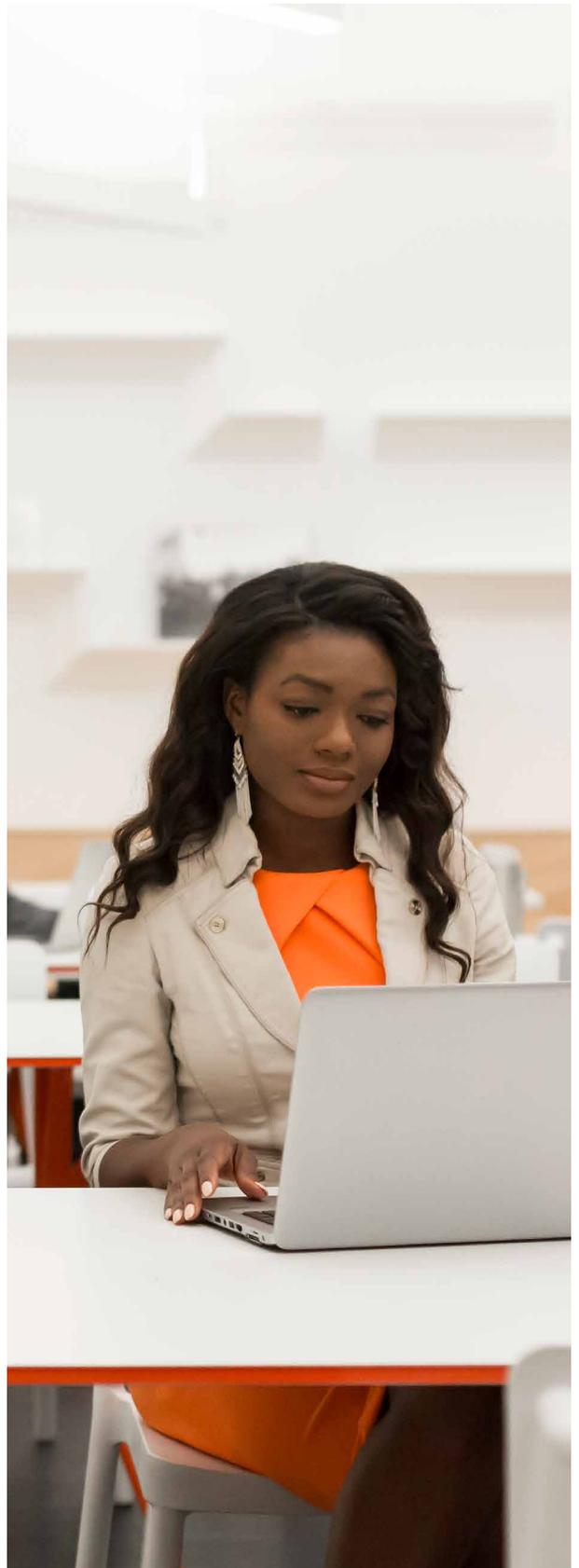
So how do you move from reactive management to proactive management? At HPE we developed a platform that analyzes encrypted metadata from systems in the entire installed base.

Using artificial intelligence and machine learning, it turns those insights into proactive action. HPE InfoSight both predicts and prevents downtime and disruptions, before you'll even notice it, and this across your entire infrastructure stack.

And that's not all. HPE InfoSight's analysis will also help you optimize your IT-cost, your application performance and your overall IT-efficiency. The recommendation engine will hand you tangible and effective advice to optimize your IT.

## HPE InfoSight in numbers

- At least **99,9999%** data availability. Guaranteed.
- **86%** of issues are predicted and prevented
- Costs for IT-storage can be reduced by **79 %**
- Spend **85%** less time fixing problems
- More than **54%** of all reported problems are not storage-related



# A next generation of on-premises infrastructure.

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A true hybrid environment is more than just cloud services, combined with on-premises infrastructure. Traditional servers and storage will often not give you the scalability and simple management to rival with your cloud environment.

This is where the next generation comes in. In order to keep your on-premises easy to scale, easy to manage and easy to deploy, HPE has developed integrated systems like HPE SimpliVity, that bring radical simplicity into your datacenter.

## Rely on flash performance and high resiliency

A hyperconverged system like HPE SimpliVity is compatible with the HPE InfoSight platform, making it intelligent, right out of the box. These systems will help you manage any workload with great efficiency, optimal availability and little support. With flash speed, built-in security and an impressive resiliency, they are designed to withstand anything.

Peaks in usage, advanced threats, high performance compute or fast migrations, HPE SimpliVity is hybrid-ready. That means it is designed to enable fast movement of data across environments and it will deliver the performance that is needed for data analytics and virtualization under all circumstances.



# Break the divide between servers and storage

A traditional IT-environment consists of silos that are scaled independently from each other and that have different lifecycles. This often results in patchwork environments where something is always lacking.

HPE is at the vanguard of innovation. With its next-gen systems, you can break through the limitations of traditional IT. Solutions like HPE SimpliVity combine storage and compute in modular building blocks that are easy to deploy, easy to configure and that will be up and running in a matter of minutes.



## Converged

Converged systems bring together storage and compute in a singular, modular unit. For maximum scalability.



## Hyperconverged

Deploy these modular building blocks in a matter of minutes and integrate storage and compute completely in one simple solution.



## Composable

Build, configure and use your own infrastructure in minutes with this plug-and-play solution that is considered the next step for blade infrastructure.



## dHCI

Combine the scalability of hyperconverged with the ability to scale storage and compute independently with dHCI.

## Consistency in performance, experience... and cost.

For many companies, the most notable difference between public cloud and on-premises infrastructure is the cost model.

On-premises infrastructure is traditionally bought for a lifecycle of five years and requires a sizable investment (capital expenses, or CAPEX), whereas cloud services enjoy a more flexible, subscription-like cost model (operational expenses, or OPEX). This model allows customers to pay only for the capacity they use, which eliminates the overprovisioning and sizing problems that often accompany on-premises infrastructure.

But that is also changing. Flexible, OPEX-cost models are finding their way to on-premises infrastructure, and soon cloud and on-premises may be widely consumed in package deals. As "hybrid-IT as a Service", if you will.

HPE also allows for flexible cost models and pay-per-use for its key infrastructure solutions. HPE GreenLake allows customers to enjoy premium, on-premises infrastructure, while paying only for what they are using, in predictable, monthly terms.



## How does HPE GreenLake work?

HPE GreenLake offers a pay-per-use system for physical infrastructure. This infrastructure can be set up at your datacenter or with a co-location partner. The management of the infrastructure can also be done by you or by a partner.

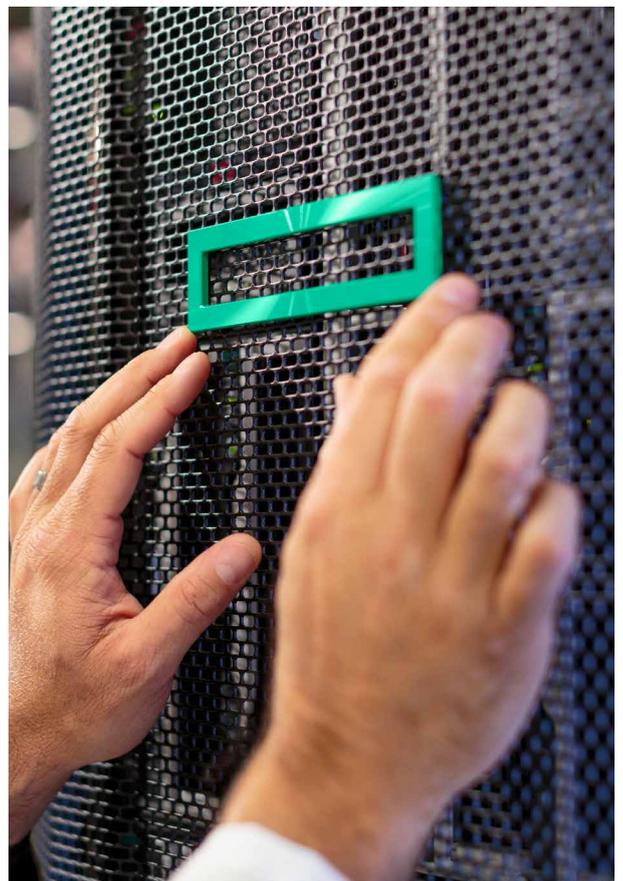
Before setting it up, your requirements are assessed and a buffer is determined. This buffer will allow you to scale up during peaks, without having to roll-out new resources.

This also allows for an outcome-based approach. Say you want a pay-per-use model for your SAP infrastructure? No problem: HPE partners will assess your requirements, calculate a buffer and set up the infrastructure you need, so you can enjoy a pay-per-use model for your entire SAP environment.

## Ready to create a hybrid infrastructure that is more consistent, and easier to manage?

Rely on HPE for storage and solutions that are hybrid by design. Our experts will help you optimize, streamline or upgrade your hybrid environment.

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