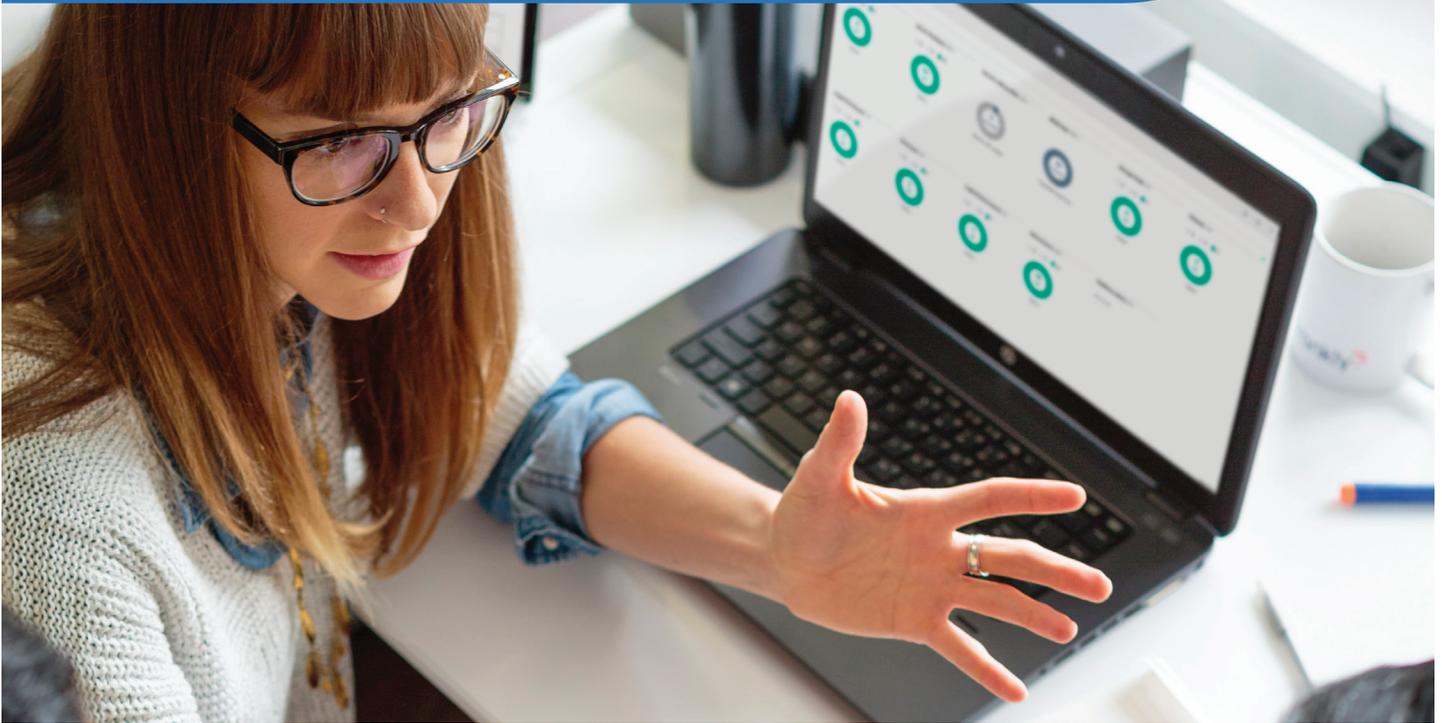**INGRAM** MICRO®

Transform with the Right Mix of Hybrid IT

Optimize, Accelerate, and Protect Without Compromise

Your data center forms the backbone of your enterprise—the place where technologies intersect to serve your business and your customers. It must manage the demands of a mobile workforce, in which the explosion of data continues to place stress upon servers, infrastructure, and IT staff. Total worldwide data is predicted to multiply 10 times the amount it is today; most of it created and managed by enterprises.[1] That's why it's estimated that applications are growing five times faster than IT can deliver, and that managing an IT stack now consumes 80 percent of IT time and budget.[2]

Traditional data centers are buckling under the pressure, causing organizations to compromise on performance, flexibility, and scalability. Furthermore, security remains a top concern, as the costs of security breaches and downtime can result in millions in damages. Cybercrime alone claims an annual average of $9 million of corporate income lost as a result.[3] How can you expand your digital services and plan for the future, while protecting against threats and managing your IT budget?

With a Hybrid IT approach, you can transform your legacy center into one that combines the right hardware, a sophisticated software management layer, and code to create a fully virtualized computing infrastructure.

What is Hybrid IT?

In a Hybrid IT environment, an organization relies on both in-house and cloud-based services to manage its entire pool of IT resources. This allows businesses to move a portion of their IT resources from a public/private cloud service provider to the public cloud, freeing up on-site resources and saving money. Hybrid IT offers the cost effectiveness and flexibility offered by cloud vendors, while still realizing full control over specific resources they prefer not to expose to the cloud. Ideally, a Hybrid IT environment transforms a data center into a virtualized, software-defined infrastructure that can be automated to protect assets and allow for flexibility to meet the needs of new business demands.

For example, Hewlett Packard Enterprise solutions can help deliver a Hybrid IT experience with a new generation of infrastructure solutions, such as HPE Nimble Storage, which can replace disparate backup and recovery systems with one software-defined solution. With HPE Nimble all-flash arrays, you also get built-in predictive capabilities, helping you automatically resolve 86 percent of issues that impact storage availability.[4] This cloud-ready solution ensures you always have access to your data, boasting 99.9999 percent guaranteed availability.[5] Best of all, you can invest in storage as you need it—allowing you to modularly build your data center with less money up-front.

According to Gartner, 25 to 30 percent of global 2000 enterprises will implement hybrid cloud services by 2019.

By 2020, Gartner predicts the programmatic capabilities of an SDDC will be considered a requirement for 75 percent of Global 2000 enterprises that seek to implement a DevOps approach and a hybrid cloud model.[7]

Capitalize on a Software-Defined Data Center

A software-defined data center (SDDC) is one in which all infrastructure is virtualized and delivered as a service. Fully automated by software, hardware configuration is maintained through intelligent software systems. This contrasts with traditional data centers, where the infrastructure is typically defined by hardware and devices. In this state, resources can be spread across workloads as needed, providing added scalability and simplicity.

The goal of an SDDC is to create a network as simple and as flexible as possible, abstracting the network environment from the physical one, so that applications can be delivered as a service. Software-defined data centers are considered by many to be the next step in the evolution of virtualization and cloud computing as it provides a solution to support both legacy enterprise applications and new cloud computing services.

How Do You Create One?

Standardization. Use x86 servers to easily manage and add physical capacity. HPE Gen10 ProLiant servers, the world's most secure industry-standard servers,[6] do more than protect your digital assets; they also allow you to adapt your IT quickly to changing requirements with Intelligent System Tuning, HPE Scalable Persistent Memory, and server networking and storage advances.

Virtualization. Form virtual machines that can be partitioned into systems to support specific workloads.

Automation. Create code-based policies to perform daily functions without staff oversight; including capacity and security functions.

It's important to choose the right products and services to develop the right infrastructure, automation, and resource management. A key component of the strategy from HPE, HPE Nimble Storage and HPE Gen10 ProLiant servers, help set the stage for a Hybrid IT environment with software-defined functionality. Built for managing data across the IT landscape,

these solutions offer control and security, while also leveraging built-in intelligence to identify risks well before they become threats.

Design a Hybrid IT System: HPE and Ingram Micro

Not every business faces the same challenges, which is why there is no one Hybrid IT solution. It's important to define your business goals and analyze your current workloads to determine how you might deploy the right mix of virtualized storage, hypeconvergence, cloud services (public, private, or hybrid), and software-defined networking.

As an HPE Platinum Partner, Ingram Micro helps businesses fully realize the promise of technology—helping customers maximize value worldwide. Our vast global infrastructure and focus on cloud, mobility, technology lifecycle, supply chain, and technology solutions helps our business partners successfully serve their clients. Our solutions go beyond distribution—we offer marketing, reverse logistics, and a suite of services to connect you with your customers quickly, accurately, and efficiently.

Our extensive sales and distribution network throughout North America, Europe, Middle East and Africa, Latin America and Asia Pacific with local sales offices and/or representatives in 52 countries, 155 distribution centers worldwide, serves more than 200,000 customers in approximately 160 countries.

Realize the Benefits of Hybrid IT

- On-the-fly, scalable provisioning
- Services available when you need them
- Ability to manage and monitor across the IT environment
- Software-defined infrastructure
- Enterprise-wide security
- Lower TCO; server disks move to shared storage

For more information about Hybrid IT, please contact us at (800) 456-8000.

[1] Information Age, (via web) "The value of data: forecast to grow 10-fold by 2025," April 2017.
[2] HPE, "Hyperconverged Infrastructure," 2018.
[3] Ponemon Institute, "2016 Cost of Cyber Crime Study & the Risk of Business Innovation," sponsored by Hewlett Packard Enterprise, Oct. 2016.
[4] HPE, White Paper, "Redefining the standard for system availability," Aug. 2017.
[5] HPE, "Get Six Nines Guarantee," HPE Nimble Storage, Sept. 2017.
[6] HPE web page, HPE Gen10 Servers, accessed June 2018.
[7] Gartner, (via web), "Gartner Says the Future of the Data Center is Software-defined," Sept. 2015.

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