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Unlock the Power of Simplicity
How Agile Could Your Business Be with the Right IT?

In today's digital business world, companies know that they need to be able to bring new products to market on a dime. At the same time, they need to store and manage growing amounts of data, embrace new technologies, including mobile, and accelerate development of new apps and services — all while keeping IT costs in check.

Speed to market, new apps and services, data analytics, and embracing all things mobile are requirements for success. To deliver on today's technologies, companies need a hybrid IT infrastructure from Möbius Partners and Hewlett Packard Enterprise, like HPE SimpliVity for hyperconvergence and HPE Synergy, both powered by Intel® Xeon® processors, that support legacy systems and are also agile, fast, and scalable for current and future needs.

This influx of data is putting a strain on traditional IT infrastructure, causing organizations to require a hybrid infrastructure, and specifically, a composable hybrid infrastructure like the HPE Synergy, powered by Intel® Xeon® processors.

Keep Up and Surpass Competitors

Today's companies often have IT environments that face significant challenges, including:

- Keeping up with ever-changing business requirements
- Limited and overtasked IT staff
- Unwieldy infrastructure that is difficult to deploy
- An abundance of complex tools that are hard to maintain
- Controlling virtual machine (VM) sprawl

In response to these business requirements, many IT organizations have launched server virtualization and cloud computing projects to achieve improved service delivery and increased IT agility. However, for some organizations, ambitious virtualization, cloud, and infrastructure initiatives have led to lengthy projects, increased management complexity, and higher operational costs. The old ways don't work anymore, but the new ways aren't necessarily easy.

Data volumes are exploding. More data has been created in the past two years than in the entire previous history of the human race.[1]

$267B

Amount B2B spending on IoT technologies, apps and solutions will reach $267B by 2020.[2]

This is where hyperconvergence comes into play. It provides many of the benefits of a virtualized data center in a compact, cost-effective system that is easy to deploy, manage, and support.

These companies need a simpler, faster virtualization solution — one that can be managed by one IT generalist rather than numerous IT specialists. Enter HPE SimpliVity, powered by Intel® Xeon® processors, an advanced, virtualized system from Hewlett Packard Enterprise. This appliance acts like a VM vending machine, enabling you to quickly deploy VMs, simplify your IT operations, and reduce overall IT costs like no other hyper converged system available today.

Before we dive deeper into the hyperconvergence and composable infrastructure, let's look at today's market drivers.

The Internet of Things (IoT)

IoT is the internetworking of physical devices, vehicles (also referred to as "connected devices" and "smart devices"), buildings, and other items — embedded with electronics, software, sensors, actuators, and network connectivity that enable these objects to collect and exchange data.

IoT revolves around increased machine-to-machine communication. It's built on cloud computing and networks of data-gathering sensors, mobile, virtual, and offers an instantaneous connection. The intention of these IoT devices is to make everything in our lives from streetlights to seaports "smart."

Within five years, there will be more than 50 billion smart connected devices in the world, all developed to collect, analyze, and share data.[1]

Mobile and BYOD

"Demand for mobile apps in the enterprise is growing, but the urgency to scale up mobile app development doesn't yet appear to be a priority for most organizations," said Adrian Leow, principal research analyst at Gartner.

"This must change, particularly given employees often have the autonomy to choose the devices, apps, and even the processes to complete a task. This places an increasing amount of pressure on IT to develop a larger variety of mobile apps in shorter time frames."[2]

IT departments are increasingly embracing Bring-Your-Own-Device (BYOD) policies and enterprise mobility initiatives. As the number of personal devices continues to rise and employees become even more intertwined with their own devices, IT needs an infrastructure like the HPE Synergy, powered by Intel® Xeon® processors, that can manage the risks associated with this trend.

Public & Private Cloud

By 2020, at least one-third of all data will pass through the cloud, which is a network of servers connected over the Internet.[1]

Speed, economics, easier collaboration, and increased security capabilities have all fueled the rise of cloud investment by organizations — both end user and IT departments. Integration with cloud services is a necessary component to any enterprise infrastructure.

Big Data

Data is growing faster than ever before and by the year 2020, about 1.7 megabytes of new information will be created every second for every human being on the planet.[1]
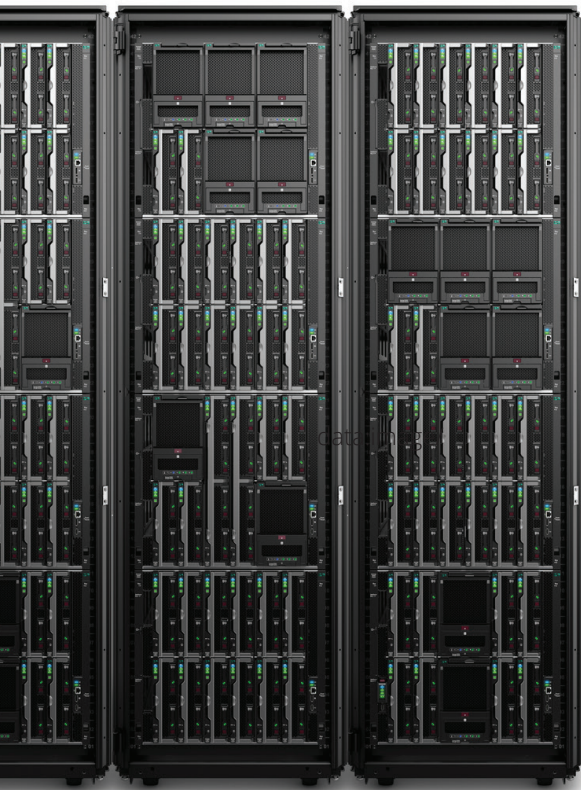
Composable Infrastructures Explained

To deal with these new technologies and market drivers, the old converged and static infrastructure won't help. What's needed is a move to the newer two infrastructures:

- **Hyper Converged Infrastructure (HCI).** In an HCI environment, the infrastructure is software-defined instead of hardware-focused like a converged infrastructure. All of the various technologies (compute, storage, networking, and virtualization) are integrated together into a hardware box from a single vendor like the HPE SimpliVity, powered by Intel® Xeon® processors.
- **Composable Infrastructure.** Here, nothing is static, and it consists of compute, fabric, and storage modules that you can access and use as you need them.

The main differentiator for a composable infrastructure, specifically one from Hewlett Packard Enterprise like the HPE Synergy, powered by Intel® Xeon® processors, is that it's completely programmable and software-defined. This means that you can access your composable infrastructure to configure and reconfigure all the resources (compute, fabric, and storage) for whatever your particular workflow needs are at that moment. A composable infrastructure is hallmarked by these three differentiators:

- **Fluid Pool of Resources.** Your compute, storage, and fabric resources are pooled together and provisioned to use at will.
- **Software-defined Intelligence.** This is where you will go to define the resources you need and manage the resource lifecycle.
- **Unified API.** The HPE OneView is a programmable interface that you use to set everything up through just one line of code.

Composable infrastructure is the bridge to faster service delivery, empowering IT to create and deliver value instantly, continuously, and at the speed and flexibility of the cloud — all within your own secure data center. HPE SimpliVity and HPE Synergy, both powered by Intel® Xeon® processors, work to help IT organizations deliver for the digital economy.

HPE Synergy, powered by Intel® Xeon® processors, is the world's first platform designed specifically for composable infrastructure. It was built to bridge traditional and new IT, providing the agility, speed, and near-continuous delivery needed for today's applications, with these benefits:

- Single platform for hybrid IT environment
- Cloud-like speed and efficiency
- Software-defined intelligence
- Fluid resource pools
- Unified application programming interface
- Infrastructure-as-Code capabilities
- Enables IT to drive company growth

The main component of a composable infrastructure like HPE Synergy, powered by Intel® Xeon® processors, is that it's completely programmable and software-defined. This means that you can configure and reconfigure all of the resources in your hybrid infrastructure — compute, fabric, and storage — for whatever your particular workflow needs are at that moment.

HPE Synergy, powered by Intel® Xeon® processors, enables businesses to thrive in today's digital landscape, where the app or service customers and employees demand are unknown from one day to the next. This solution offers the following features:

- **Run anything.** Optimize any application and store all data on a single infrastructure with fluid pools of physical and virtual compute, storage, and fabric.
- **Move faster.** Accelerate application and service delivery through a single interface that precisely composes logical infrastructures at near instant speeds.
- **Work efficiently.** Reduce operational effort and cost with internal software defined intelligence with template driven, frictionless operations.
- **Unlock value.** Increase productivity and control across the data center by integrating and automating infrastructure operations and applications through a unified platform.

With HPE SimpliVity and HPE Synergy, both powered by Intel® Xeon® processors, IT organizations now have the opportunity to thrive in a world of unlimited data sources and new technologies and enable business innovation.

[1]AnalyticsWeek, "Big Data Facts," March 2017.
[2]Gartner, "Gartner Survey Reveals Enterprise Spending on Mobile App Development Remains Low," June 2016.

Contact us to learn more about how these two infrastructures can help you accelerate time-to-market or give us a call at 888.834.5531 or email info@mobiuspartners.com.

Möbius Partners, a minority-owned company, is a Hewlett Packard Enterprise Platinum partner that specializes in the delivery of Hybrid IT solutions along with technical expertise for our customers. At Möbius Partners, we provide our clients with the most advanced and strategic technologies available to help them innovate, transform, and deliver positive business outcomes. We specialize in five practice areas: Security, Cloud Integration, Operational Excellence, Converged Systems, and Big Data.

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