Infrastructure. Anywhere.

SOLUTION BRIEF

SOFTWARE-DEFINED DATA CENTERS IN A HYBRID WORLD

A business wants its IT infrastructure to demonstrate high performance and availability, be highly secure and operate as efficiently and cost effectively as possible. Users want their IT experience to be fast, allowing them to move from application to application with ease and providing a back-up and recovery plan to protect their valuable data assets.

Today, there are many options available to companies as they construct their IT Infrastructure to support their various business applications and storage needs. But they basically boil down to these three: on premise (or "build your own"), cloud ("rent from a third party") or hybrid (a combination of on-prem and cloud).

In the last 10 years, renting IT infrastructure from a third party has offered a faster way to build capacity versus trying to build it on premise with traditional IT equipment silos. Traditional vendors provided equipment for **"hardware defined data centers."** New vendors provided **"software defined data centers"** on their own equipment. A **new category of public cloud vendors** (such as Amazon Web Services, Microsoft Azure) began offering their own proprietary solution, promising a much faster experience than a multi-vendor hardware data center approach.

Most companies were pleased with the speed the public cloud offered, but soon began to experience the downsides.

The Unplanned Consequences of the Public Cloud

COST

Many times, when the full solution is built in a rented public cloud environment, the monthly rental bill is much higher than anticipated. Companies then have to grapple with the question: "Is the solution worth the cost?"

INTELLECTUAL RESOURCES

A benefit of on-prem solutions is that your own staff monitors and manages the infrastructure. Your staff is comprised of dedicated full-time experts who care about your infrastructure and dedicate all their working hours to it. They understand the subtle nuances to make things work in your environment. When corporations go to the cloud, many times they significantly downsize their infrastructure team. Six months later, they discover that they still need inhouse infrastructure management skills, whether the infrastructure is on-prem or off-prem. And those resources might not now be available.

ARCHITECTURE AND TOOLS

Another consequence of a public cloud solution is that it has different architecture and tools when compared to an on-prem solution. The added complexity of managing resources across various architectures with different tools translates into additional admin time and expense, as well as increased security and consistency risks.

All of these HPE Hybrid IT solutions are designed to offer "single pane of glass" management, monitoring and provisioning in both owned on-prem and rented off-prem environments.

IS THE BEST OF BOTH WORLDS POSSIBLE?

Ideally, when a business needs to address scale and location capacity issues, IT management prefers to have the same architecture and tools in all locations and to manage the infrastructure from a single console.

Hewlett Packard Enterprise (HPE) has been very creative in addressing this requirement.

With **HPE OneView**, we can build, monitor and manage a fully standards-compliant on-prem solution on HPE hardware. The solution can easily accommodate multiple data centers and/or multiple remote branch offices. Also gaining in popularity and market visibility is **HPE GreenLake**, a "pay-as-you-go" consumption solution for hybrid cloud, private cloud and traditional IT that delivers cost, control and business agility.

HPE also introduced **OneSphere**, a discovering and monitoring infrastructure that is designed for a rented software-defined environment. OneSphere can also utilize VMware to provision VMs in the cloud solutions that it monitors.

All of these HPE Hybrid IT solutions are designed to offer **"single pane of glass" management**, monitoring and provisioning in both owned on-prem and rented off-prem environments. And the future looks even brighter; there are many more exciting developments in the HPE Hybrid portfolio in development and beta testing stages.

CPP's Infrastructure Anywhere Assessment (IAA) Takes the Guessing Game Out of the Equation

Since its inception, CPP Associates has been helping companies objectively evaluate the full range of cloud, on-prem and hybrid IT options using our **Infrastructure Anywhere Assessment (or IAA)**. Over 10 – 14 days, we conduct a thorough assessment of your environment, current business needs and plans for the future. We then present our findings and recommendations (including a 36-, 48- or 60-month Total Cost of Ownership (TOC) comparing owned on-prem and rented off-prem option). While cost is not the definitive deciding factor, this empirical presentation of TCO, especially when supported by other technological considerations, allows our clients to confidently move forward without fear of "buyer's remorse."

After the IAA is completed and all related decisions are made, we then formulate a **comprehensive migration path** to efficiently and cost effectively transition from the client's current state to its future ideal state. The CPP team is then available to provide ongoing support and periodic evaluations to ensure that the designed infrastructure continues to meet the client's business needs and support its future growth.

PLAN YOUR INFRASTRUCTURE MIGRATION WITH CONFIDENCE

Any decision about infrastructure architecture carries a tremendous weight in terms of cost and consequence. Approach yours with confidence. Schedule a complimentary initial consultation with CPP Associates to learn more about its Infrastructure Anywhere Assessment. And put our vast experience and deep partnership with Hewlett Packard Enterprise to work for you.

Infrastructure. Anywhere.

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