Accelerate your hybrid journey
HPE Pointnext Services for VMware-focused software-defined infrastructure
Organizations across the globe are reimagining and reinventing themselves in response to a digital revolution, not only to avoid failure but also to thrive and take advantage of the opportunities in their markets. In the digital era, organizations need to be able to bridge applications and workloads with new innovation capabilities. Doing this effectively means firstly you have to accelerate towards emerging trends and technology solutions. Secondly, manage your journey successfully so that you can achieve the benefits you expect in terms of agility, flexibility, scalability, and cost effectiveness.

Enterprises currently support two very different models for delivering applications. The traditional model operates in a conventional, steady-state environment that focuses on minimizing risk through standard methodologies, conventional vendors, and strong governance.

The emerging Digital Business model, on the other hand, operates mobile, Big Data, and cloud applications, and services in a nonlinear, high-speed model. This requires agile application development, DevOps, low latency and can continuously adapt to high levels of uncertainty and change.

Transform to a software-defined and hybrid environment

We envision a landscape that can offer both models of IT with enhanced control options for your business users, application developers, and IT administrators—through a software-defined, composable experience. The software-defined infrastructure (SDI) will help you obtain service delivery that’s faster, simpler, and more agile and efficient.

Software-defined means abstracting the conventional and proprietary vendor hardware and software-specific tasks from the IT assets where they have normally been performed, to a central control layer, making it much easier to manage and control those assets (server, storage, network, and facilities) without having to make changes to them individually.

Software-defined infrastructure encompasses not only software-defined data center (SDDC), which includes compute (SDC), network (SDN), storage (SDS), and facilities (SDF), but also extends to non-data-center infrastructure with the use of monitors or machines that are increasingly software defined.

HPE for software-defined infrastructure

Helping organizations remove the complexity from their IT environments and enable service improvements through the dynamic control of the infrastructure, satisfying the needs of applications, IT, and business users.

- Implement programmable control of infrastructure
- Accelerate both cloud and convergence work
- Manage a unified view of physical and virtual infrastructure
- Provide open control choices for improving technology, processes, and workforce

Software-defined

Cloud

LOB user control

Software defined

Applications control

Composable

IT admin control

Enhancing a consistent hybrid cloud experience

Implement programmable control of your infrastructure

Accelerate both cloud and IT convergence efforts

Manage a unified view of physical and virtual resources

Provide open control choices for improving your technology, processes, and workforce

Figure 1. SDI and new control options

Figure 1 shows you the new open control choices with SDI that allow you to react quickly to changing business dynamics while providing you with a secure, stable environment. Software-defined control creates functional abstractions that support both operator and application requests. These programmatic controls are applied in three distinct layers: IT administrative control layer facilitated by the composable infrastructure, line-of-business control through the cloud, and application-level control through the software-defined architecture.

With HPE’s flexible approach to SDI and software-defined technologies you have the advantage of evolving your infrastructure and applications at your pace or accelerate it through well-defined lifecycle approach from assess, advise to design and deploy to support and operate your hybrid environment.
HPE Pointnext provides:

- A clear description of the architectural approach, opportunities, strategy, and technology, as well as the benefits based on your specific business situation and needs
- A vision and strategy to start your transformation and accelerate hybrid journey
- An analysis of your current readiness and an assessment to help you reach your goals
- A process that accelerates the adaption of software-defined architectures through reference architecture, predefined hardware, software, services and solutions

**Figure 2. The journey to the hybrid environment**

### HPE Assessment Service for VMware® (3–4 weeks)

This service provides insight into your existing VMware environment in terms of the current VMware landscape, dependencies, and challenges. The assessment Service leverages SaaS based discovery and analysis tool to collect relevant data to perform quick VMware hosts inventory, gap analysis and provides recommendations in order to transition to a software-defined future. The deliverables from this service is a comprehensive report outlining the current situation, recommendations for the transformation, and next steps for the targeted SDI that is aligned to your business goals.

### HPE Migration Service for VMware vSphere® (Custom SOW)

This service provides organizations ability to migrate from the legacy vSphere platform to the latest vSphere Platform. The VMware vSphere 5.5 has already ceased to be supported. If you continue to operate your applications in the unsupported environment, your organization will be exposed to higher risks and vulnerabilities.

The vSphere 6.7 supports both existing and next-generation applications through simplified automation and management, comprehensive built-in security for protecting data, infrastructure, and access, universal application platform for running any applications anywhere. With vSphere 6.7, customers can now run, manage, connect, and secure their applications in a common operating environment, across clouds and devices.

HPE Pointnext experts can work with you to understand your requirements and come up with a recommended approach to seamlessly migrate the workloads and applications to the new environment.

### HPE Proof of Concept Service for VMware Private Cloud (Custom SOW)

The proof of concept service enables customers to design and deploy an on-premises private cloud using the VMware Cloud Foundation™ (VCF) Stack. The scope of this POC service is centered on the specific use cases that the customer would like to validate before embarking on the VCF based private cloud journey. This helps organizations evaluate their private cloud strategy as well as evaluate the VMware SDI (compute, storage, and networking and security) stack in an isolated environment without any potential impact on their production workloads.
**Why HPE?**

**Expertise**
HPE brings together global facility, IT infrastructure, and IT service management expertise to deliver a truly converged SDI management experience.

**Strategic partnerships**
HPE’s vendor-agnostic approach allows the HPE SDI strategy to support multiple hypervisor and physical hardware technologies so that HPE SDI solutions can support any OpenFlow-compliant technology.

**Technology vision**
The foundation of HPE SDI is built on proven solutions such as HPE software-defined networking, HPE software-defined storage, HPE OneView, and HPE Composable Systems to give you outstanding coverage and flexible choices.

**Services IP**
Our methodology covers not only technological aspects, but also the impact on process, organization, and facilities, which is regarded as an important element of an SDI.

**End-to-end services portfolio**
Our extensive portfolio handles your complex requirements with coverage around the globe. We have an extensive set of full lifecycle services from strategy, road map, architecture, design, discovery, implementation, and operation.

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**HPE Deployment Service for VMware Private Cloud (Custom SOW)**

This service enables customers to create a uniform and a rapidly scalable private cloud on-premises using the VMware software-defined technologies.

VMware Cloud Foundation delivers a natively integrated software-defined data center stack that includes the core infrastructure virtualization, vSphere, VMware vSAN™, and VMware NSX®. Additionally, this solution can be enhanced by deploying a set of VMware cloud management platform tools, such as self-service portal, monitoring, micro-segmentation and security compliance.

HPE Pointnext experts can help you leverage VMware Cloud Foundation capabilities to automate the end-to-end deployment of the private cloud from initial set-up to configuration, provisioning, and patching that simplifies day-to-day private cloud management and operations.

**HPE Integration Service for VMware Cloud™ on AWS (Custom SOW)**

This service enables customers to create VMware capacity on Amazon Web Services (AWS) infrastructure to be used as an extension or to supplement the in-house data center capacity with a consistent operating model. VMware Cloud on AWS is an integrated cloud offering jointly developed by AWS and VMware delivering a highly scalable, secure, and innovative service.

This allows organizations to create or migrate workloads to AWS public cloud and consume AWS capabilities such as Lambda, Simple Queue Service (SQS), S3, Elastic Load Balancing, RDS, and Redshift along with the complete VMware SDDC stack. This means the customer can now have an Op-ex based, secure and scalable VMware infrastructure on the cloud which can be used for specific use cases such as capacity extension, workload consolidation and migration to cloud and disaster recovery.

HPE Pointnext experts can help you accelerate cloud migration and simplify hybrid cloud deployments by leveraging VMC on AWS as an on-demand service, to capture the benefits of cloud, without going through the painful and costly migration process so often associated with hybrid cloud models. With AWS’s breadth of cloud services readily accessible to applications running within VMC, customers get the best of both worlds, an environment perfectly suited for running existing VMware based applications, as well as an environment flexible enough to grow and support new cloud-native applications.

**HPE Pointnext Education Services**

HPE Pointnext Education Services is one of the largest global VMware Authorized Training Providers, and has trained more people on VMware technologies than any other VATC. We will enable you and your team with the right skills and expertise to manage your virtualization environment. For more information, please refer to the link below for more details: [education.hpe.com/ww/en/training/portfolio/vmware.html](http://education.hpe.com/ww/en/training/portfolio/vmware.html)

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