Migrate workloads to your cloud
HPE Cloud Workload Migration Service
Enable rapid and customized migration of server workloads to the cloud

As companies become more comfortable with the benefits of a cloud environment, they are gaining valuable insight into not only the potential opportunities and benefits, but also the practical challenges of migrating applications to the cloud.

Moving to the cloud

With the move to mobile, social, and Big Data styles of IT, you are now more compelled to move your application (and their workloads) to the cloud.

Many questions arise over the move to cloud. You have to decide on some of them:

- Which workloads to move?
- Which workloads not to move?
- Which cloud is the best destination?

Once you’ve identified the workloads, you have to decide on how to move those workloads. There may be thousands of them, which rules out a manual process. You have to choose the best way to stretch the budget, migrate the workloads, and be confident that they will continue to support the business from their new destination.

IT organizations face similar challenges whether migrating server workloads for virtualized or for cloud delivery. But it may get more complex if you may have to migrate your workloads to destinations that include combinations of virtualized, private, or public clouds. Or, the migration may include any or all of P2V, V2V, C2V; as well as any combination of those.

First, we have to define “workloads.” A workload can be made up of data, applications, operating system and middleware. During migration, the traditional IT infrastructure—server, storage, and networking—changes, but we need to keep the other components intact as they move. So, in this process we consider the whole workload in the migration plan.

---

**Update: Enable rapid and customized migration of server workloads to the cloud**

As companies become more comfortable with the benefits of a cloud environment, they are gaining valuable insight into not only the potential opportunities and benefits, but also the practical challenges of migrating applications to the cloud.

**Moving to the cloud**

With the move to mobile, social, and Big Data styles of IT, you are now more compelled to move your application (and their workloads) to the cloud.

---

**Top benefits of HPE Cloud Workload Migration Service**

- Predictable and easy to use (e.g., short set-up time)
- Live, “as-is” migrations
- Pay as you go, lower costs
- Any-to-any migrations e.g., Physical to Virtual (P2V) or Virtual to Virtual (V2V) in your data center
- Migrate to cloud or hypervisor environment
- Tailored to migrate to the cloud that suits your business
- Lower risks: no disruption to source, migration behind the firewall, and agentless

---

**Figure 1. Workload migration—planning and execution**
Enable rapid, customized migration of server workloads

Workload migration services
Predictable migration to your cloud within your budget
HPE Cloud Workload Migration Service performs the server workload migration in a predictable, manageable way. Migration can be on a pay-per-use plan, enabling you to migrate workloads as time and budget permit, with known costs. Customers, like you, can make use of the service in a traditional data center transformation (P2V or V2V scenarios), as well as transformations that would include private, public, or hybrid clouds. The result is a reliable migration of workloads, prioritized for business need, at a known cost, and to the right type of IT environment.

Flexibility—it’s your choice
HPE offers a comprehensive workload delivery model, which starts with the analysis of existing server workloads and determining the most suitable workload migration delivery models—in-house traditional delivery (non-cloud), private cloud (on- or off-premises), hybrid cloud, or public cloud.

Decide, then deliver
We help you make decisions on where—legacy IT or a particular cloud type—to place the workloads. This Cloud Workload Migration Service is specifically designed to provide a simple way to deliver the actual migration of server workloads. The service includes access to migration tools on SaaS cloud to migrate workloads for a defined number of servers (e.g., 500, but varied during service development), as well as the labor required to perform the workload analysis, planning, and migration. The services required to perform work associated with discovery, analysis, and mapping are provided separately and are part of our workload portability services suite.

Cloud Workload Migration Service and the tools used by it (from multiple third parties) has the capability to move server workloads in any-to-any fashion; P2V, V2V, V2C, or any combination. The tools selected are hypervisor-agnostic and specifically include KVM and Xen, in addition to Hyper-V, VMware®, and Citrix® XenServer. The deliverable from this service will be successfully migrated server workloads.

Part of HPE Helion Professional Services
HPE Cloud Workload Portability—which includes the Cloud Workload Migration Service—is by itself a suite of services in the overall HPE Helion Professional Services offering. HPE Helion Professional Services offering is an end-to-end and lifecycle-oriented portfolio that helps your organization to quickly capitalize on the promise and full potential of the cloud.

Featuring a comprehensive portfolio of modular, integrated, and highly flexible services—within a simple framework of Advise, Transform, and Manage services as illustrated in Figure 2—HPE Helion Professional Services can help you understand all aspects of the cloud. It creates your desired future state, plans, designs, builds, and enables operational efficiency of your hybrid delivery cloud solution—all under the guidance of a proven HPE team.
Workload portability services

Complete lifecycle for your workloads

HPE Workload Portability Services can begin with Phase 1 named Discovery, to understand the applications in your environment as a starting point. Then, Phase 2 named Suitability Analysis performs a formal study of the actual application workload and determines which workload should move to the cloud, which shouldn’t, and why. It also prioritizes the moves. The result is a manageable set of candidates destined to the cloud and prioritized for migration.

Map and then migrate

Following Discovery and Suitability Analysis, Phase 3, Mapping, helps identify the right type of cloud for each workload based on the business, technical, and functional needs. This is followed by the act of actual migration in Phase 4, Workload Migration.

The final activity, Phase 5 or Cloud Enablement, validates the connections, service levels, security, and performance considerations of the newly formed cloud—in order to maintain and enhance the same business they supported before the migrations.

Throughout all these phases, we analyze the business, technical, and budgetary needs and match the migration to meet those needs. The services are separable and are often done iteratively, starting with a subset of workloads and migrating until all the workloads that can and should migrate are running in the right type of cloud.

Experiencing the HPE advantage

HPE evolved delivery models for cloud even before it was formally defined throughout the industry. We originated the concept of HPE Adaptive Infrastructure to help you evolve your data center from high-cost silos to low-cost, pooled assets, and created IT-shared services—the foundation of a service-centric, cloud-based operating model. At HPE, we enable IT organizations like yours to take full advantage of cloud computing by helping you select the most suitable platform for your needs. Our array of cloud solutions encompasses an “everything-as-a-service” capability that provides all the expertise to implement your chosen strategy. HPE is committed to build the infrastructure, provide services, and drive innovation related to the cloud.

Learn more at hpe.com/services/cloud

© Copyright 2015, 2017 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for HPE products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HPE shall not be liable for technical or editorial errors or omissions contained herein.

Citrix is a registered trademark of Citrix Systems, Inc. and/or one more of its subsidiaries and may be registered in the United States Patent and Trademark Office and in other countries. VMware is a registered trademark or trademark of VMware, Inc. in the United States and/or other jurisdictions. The OpenStack Word Mark and OpenStack Logo are either registered trademarks/service marks or trademarks/service marks of the OpenStack Foundation, in the United States and other countries and are used with the OpenStack Foundation’s permission. We are not affiliated with, endorsed or sponsored by the OpenStack Foundation or the OpenStack community. Pivotal and Cloud Foundry are trademarks and/or registered trademarks of Pivotal Software, Inc. in the United States and/or other countries. All other third-party trademark(s) is/are property of their respective owner(s).