



**Hewlett Packard
Enterprise**

Brochure

Conduct suitability analysis for workloads migrating to the cloud

HPE Workload Suitability and Mapping Service for Cloud



Conduct an effective suitability analysis for migrating business services to cloud.

Top benefits of HPE Workload Portability to cloud services

- Discovery
 - A comprehensive view of IT assets for migration to hybrid IT
 - A base for migration decisions
- Suitability
 - Functional, technical, and economical fits of the workload for migration
 - Cost and benefit analysis
- Mapping
 - Map workload and services to best possible cloud targets
 - Decide on workload hybrid IT targets
 - Mitigate and manage risks
- Migration
 - Any-to-any migrations, live or stopped
 - Pay as you migrate. Reduce execution cost and risk
- Enablement
 - Same or improved links and SLAs
 - Business case delivered
 - Leverage cloud features and build new processes

Companies intent on moving their business services to the cloud are beginning to better understand the challenges and solutions of analyzing their applications' fit to the cloud and how to change them to make them fit.

Moving to the cloud

Many questions arise over decisions to migrate applications to the cloud:

- How can I determine if my applications could move to the cloud unchanged?
- How can I find the type of the cloud that meets my applications needs best?
- How can I be sure that once I moved my applications they will perform adequately?

First, you build a business case to support your decision to migrate your applications to the cloud. Next, you will have to determine which of your applications could migrate to the cloud unchanged and which couldn't. There may be thousands of applications which rules out a manual process. So, you must find new, innovative methods and tools to conduct application assessments effectively and efficiently. The HPE Workload Suitability and Mapping Service for Cloud offers such methods and tools that will enable you to make this analysis and ensure your success.

But first, let us define the word "workload." A workload is combination of middleware/databases, applications and data that runs on or more compute hosts. You must keep these components together as you move them, but you might optimize some components, e.g., migrate a traditional database to a native cloud one. The HPE Workload Suitability and Mapping Service for Cloud deals with the application workloads as allows for effective and efficient migrations of applications to the cloud.





How to conduct workload suitability analysis effectively

Suitability analysis consists of consulting services and specialized tools. Consulting includes building business cases for your applications (or their groups) in the cloud, technical and functional analyses of the feasibility of migrating workloads to the cloud, information gathering and interviews with your application owners, and some other activities.

The tools are used to help score each application workload's suitability to the cloud. This is done by applying structured analysis questions and scoring techniques to each application. The use of the Suitability Analysis tools is depicted conceptually in figure 1 and is as follows:

1. Select the catalogs of questions for the target cloud of interest: IaaS, SaaS, AWS, Azure, etc.
2. Collect data on workloads and groups as candidates for migration to the cloud from the Discovery phase of the Workload Portability Methodology.
3. Apply catalog questions to workloads or their groups to address business, technical, functional, and economic rationale for migrations.
4. Produces scores for each workload or groups to decide whether to migrate or first to transform them prior to migration (refactor, reintegrate, rebuild, replace, etc.).
5. Decide the cutoff of the scorecard results to pick candidates for migration; multiple criteria may apply e.g., comparing a migration business case against transformation costs.
6. Send these workloads and groups to the Mapping Phase of Portability Methodology to find their cloud targets.

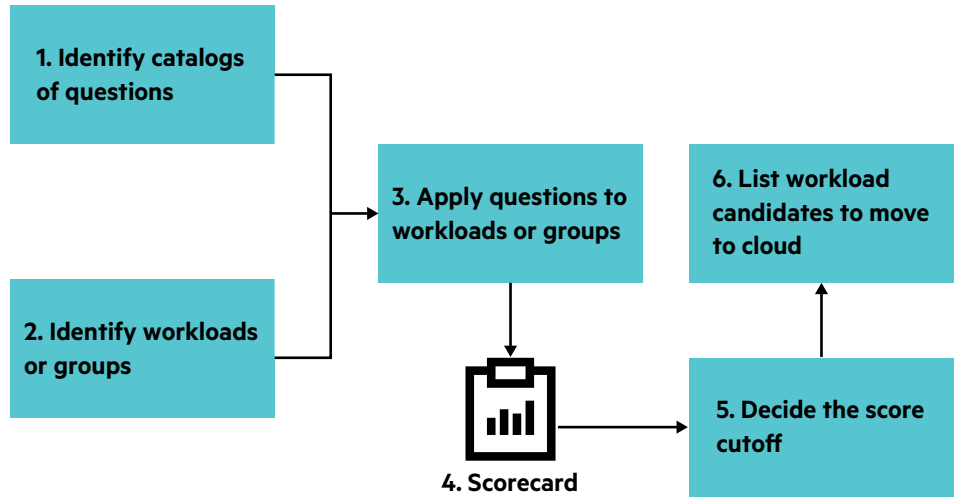


Figure 1: HPE Workload Suitability Analysis processes

Key benefits of workload suitability analysis

Strategic approach to suitability assessment

Businesses that want to move their business services to the cloud perform a thorough business case analysis of expected benefits. Still, before they act, they must take a hard look at the existing investments in their IT business services—infrastructures, networks, and applications—to determine if their move will truly be beneficial. They must analyze the economics of the move to the cloud against their business case; they must check if their applications could adequately perform in the cloud, and finally they must review the technical aspects—service levels, technical compatibility, scalability, and other systemic parameters—before giving the final approval for the move to the cloud.

The HPE Workload Suitability and Mapping Service for Cloud addresses all these challenges strategically, over long-term and enterprise-wide and thus enables businesses to make confident decisions about migrating to the cloud.



Figure 2: Key benefits of workload suitability analysis

**Rapid suitability analysis**

The HPE Workload Suitability and Mapping Service for Cloud applies to each workload the business, technical, financial, and functional assessment criteria in order to determine how the workload can fit into the desired type of the cloud and how ready it is for a lift-and-shift migration.

Handling complexity in a controlled way

Difficulty of suitability assessment is well known due to the diversity of application architectures and relationships among applications. That's why workload suitability analysis is applied not to the applications but application workloads, thus encapsulating the details of how "things are done in the applications" and focusing more on what the "application really does." This way, workloads become transferable equivalents of a cloud deployment.

Further, the HPE Workload Suitability and Mapping Service for Cloud excels at working with the groups of workloads encompassing business services that combine multiple but related applications. This alone makes this service more scalable and invariant to the size of a customer's portfolios of business applications.

Leveraging technology partners

The HPE Workload Suitability and Mapping Service for Cloud uses combinations of its own and best third-party automation tools as needed. The service uses inputs from the Discovery service whose methods and tools allow for workload grouping thus dramatically reducing the assessment efforts. The Hewlett Packard Enterprise tools used to conduct the assessment themselves allow for tremendous flexibilities in the selection of target clouds and their features and assessment criteria.

Part of HPE Helion Professional Services

HPE Cloud Workload Portability, which includes the HPE Workload Suitability and Mapping Service for Cloud, is by itself a suite of services in the overall HPE Helion Professional Services offering. The 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 Hewlett Packard Enterprise team.

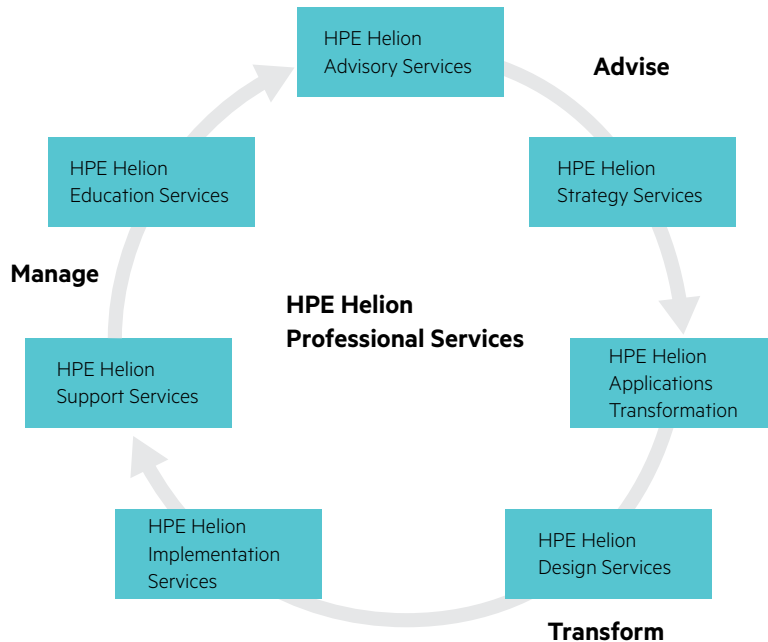


Figure 3: HPE Helion Professional Services

Workload portability methodology

Complete lifecycle for your workloads. HPE Workload Portability Methodology begins with Phase 1 named Discovery, to locate, identify, and understand all the applications in your environment. Phase 2, Suitability Analysis, then performs a formal study of the actual application workloads to determine which of them should and which shouldn't move to the cloud and why. This assessment defines the sets of candidates fit for the cloud also prioritizes their migrations. The following Phase 3, Mapping, helps identify the right type of the cloud for each application workload, or their groups, based on your business, technical, and functional considerations. After that, Phase 4—Workload Migration—performs the actual migrations, which are followed by the final activity of the Methodology in Phase 5 named Cloud Enablement, which ensures the integrity and quality of the newly created cloud-based IT environment. Cloud Enablement validates the connections, service levels, security, and performance criteria of the new cloud-based IT environment in order to support and improve the business these applications supported before the migrations.

Throughout all these phases, Hewlett Packard Enterprise applies its proven methodologies, which have enabled many Hewlett Packard Enterprise customers to make rational decisions on the adoption of the cloud while meeting their business priorities and mitigating risks. These Hewlett Packard Enterprise practices and methodologies involve Hewlett Packard Enterprise experts engaging with customers and working in an advisory consultative capacity, with the use of analysis and decision-support tools and methods derived both from the Hewlett Packard Enterprise exclusive experiences as well as from other vendors who excel in the same cloud domain.

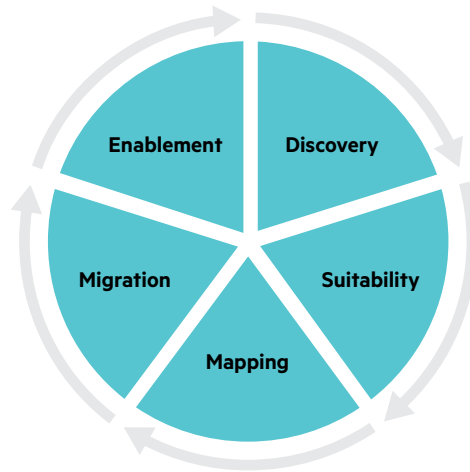


Figure 4: Phases of workload portability

Experiencing the Hewlett Packard Enterprise advantage

Hewlett Packard Enterprise 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 Hewlett Packard Enterprise, 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. Hewlett Packard Enterprise is committed to build the infrastructure, provide services, and drive innovation related to the cloud.

Developing solutions for major social and environmental challenges.

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Technology with a human touch

You rely on technology to run your business efficiently. To stay competitive and capitalize on new revenue opportunities, you have to learn how to access technology in new ways. Team with the Hewlett Packard Enterprise technology consulting and support experts to help you take full advantage of technology to drive your business. Combining technology expertise with business intelligence, our service professionals help organizations across the globe meet their evolving needs. They can do the same for you. Connect with our service experts to explore ways to do more with your technology investments and move your business forward.

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