



Hewlett Packard
Enterprise

HPE Hybrid Cloud Management Services

DevOps-ready hybrid and multi-cloud management

Executive summary

Hybrid cloud is now a reality for most organizations. The days of public vs. private cloud are over, as are the days of a single public cloud provider. Most companies nowadays have a private cloud and multiple cloud providers. HPE Hybrid Cloud Management suite and HPE Hybrid Cloud Management Services provide you with both the technology and expert advice to help you design, provision and manage workloads across a hybrid, heterogeneous cloud environment.

Overview

HPE Hybrid Cloud Management Services come in two flavors: Foundation and Advanced. The Foundation service is designed to help you jumpstart your hybrid cloud management capabilities and begin reaping benefits early with a base set of rapid-implementation options. It focuses on providing hands-on experience installing, configuring, and using the HPE Hybrid Cloud Management suite. The Advanced service is designed to help you extend and expand your capabilities into a sophisticated, production-grade, enterprise-scale, hybrid cloud management platform.

HPE Hybrid Cloud Management Services provide:

- Heterogeneous hybrid and multi-cloud management
- IaaS/PaaS on any cloud
- Proven, end-to-end enterprise orchestration
- Native container and microservices support
- Comprehensive, unified service management

- Open, extensible architecture
- Application release automation

Benefits

HPE Hybrid Cloud Management Services deliver the following benefits:

- Accelerate time-to-value with rapid baseline deployment in as little as one month
- Improve responsiveness to users, with a powerful and easy-to-use self-service portal
- Enable your developers with automated application release, microservices, and containers
- Deploy and manage any platform, database, middleware, or application to any cloud
- Reduce cost of service maintenance by automating compliance
- Increase service health with monitoring and remediation
- Optimize resource utilization by making smart workload placement decisions
- Provide business transparency with showback and chargeback
- Leverage your existing management capabilities through ITSM integrations

Hybrid Cloud Management Foundation

This service delivers a cost-effective, baseline IaaS/PaaS cloud suitable for immediate use for cloud deployments on a small scale or as a reference for larger deployments. It is modular and offers a flexible and progressive set of options that give you hands-on experience installing, configuring, and using HPE Cloud Service Automation. Through the usage of HPE-provided typical use cases and HPE

standard architectures for small to medium environments, it delivers a rapid start that enables you to then lead your own traditional project approach. This suite of services deploys a single instance of HPE Cloud Service Automation, and provides an open architecture foundation and path for future expansions and enhancements.

The service is comprised of the following modules:

Hybrid Infrastructure-as-a-Service (IaaS)

This is the base module that establishes the platform and provides the core IaaS capabilities. It includes the following tasks:

- Architecture design and installation of HPE Cloud Service Automation and HPE Operations Orchestration
- Integration with an infrastructure provider
 - Private cloud: HPE Server Automation, VMware, or HPE CloudSystem Enterprise
 - Public cloud: Amazon AWS, Microsoft Azure
- Configuration of a single Windows or Linux service in the self-service portal
- Discussion and planning around your future requirements

Service Health

If you own or have purchased HPE SiteScope, this module introduces the ability to automatically deploy monitors to each service, as soon as it is instantiated, allowing you to ensure that the services you provide remain available to your users. It includes the following tasks:

- Installation of HPE SiteScope
- Automated deployment of infrastructure monitors

- Trigger utilization alerts
- Templates and guidance for creating automated application monitoring flows

Service Management Foundation

This module enables foundational capabilities that are critical to a number of ITSM processes such as Asset Management and Change Management. It includes the following tasks:

- Installation of HPE UCMDB
- Automated discovery and configuration item (CI) creation upon service instantiation
- Automated removal of configuration items (CI) upon service termination

Server Management

This module enhances the solution by adding patching capabilities to ensure that the servers in your IaaS pools remain up to date and compliant. It includes the following tasks:

- Installation of HPE Server Automation
- Patch acquisition for Microsoft or Red Hat
- Patching policy creation

Capacity Management

This module implements HPE Cloud Optimizer: a unified fault, performance, and capacity management tool that helps to quickly troubleshoot performance issues, optimize the current capacity, and forecast the future capacity requirements to optimize capacity in any virtual and cloud environment. It includes the following tasks:

- Deployment of HPE Cloud Optimizer
- Integration with HPE Cloud Service Automation
- Hypervisor integration
- Dashboard setup

Financial Management

This module implements HPE IT Business Analytics (ITBA) to help you provide financial transparency to your users in the form of

show-back reports, detailing the cost of services they have subscribed to. It includes the following tasks:

- Deployment of IT Business Analytics (ITBA)
- Integration with HPE Cloud Service Automation
- Creation of reporting dashboard

Public Cloud Management

This module is needed in case you choose to provision to a public cloud provider. It adds certain tasks to the Service Health, Capacity Management and Financial Management modules to account for dealing with third-party providers where you have lower levels of control over the environment.

Policy-based workload placement

When you have a hybrid cloud with both your own private cloud as well as multiple public cloud providers, you need a way to determine the optimal execution venue for each workload. Using a policy-based workload placement mechanism, you can make smart decisions to optimally deploy workloads. Each time a user orders a service, it will be evaluated against the policies you set, in order to determine the optimal execution venue, based on parameters such as cost, technology match, performance and security.

Hybrid Cloud Management Advanced

This offering delivers an enterprise-class managed IaaS/PaaS cloud anchored by a robust, production-scale CSA instance. This flexible and modular offering delivers rapid value through the use of both standard and advanced features:

- Self-service portal for users to request and provision services
- Automated infrastructure provisioning and management for Windows, Red Hat Linux, and UNIX platforms

- Advanced infrastructure and application monitoring with integration into a ticketing system for automated detection, creation, recognition, and closure of incidents
- Ordering, billing, showback, and chargeback
- Application release automation
- Compliance scanning and reporting for infrastructure and databases
- Automated acquisition and deployment of vendor-recommended patches

The HPE Software Services difference

We provide unmatched capabilities with a comprehensive set of consulting and implementation services and unique intellectual property that help you effectively and efficiently orchestrate and manage multi clouds. We bring:

- Fast time-to-value with rapid implementation foundation services
- Proven hybrid cloud management and HPE Software solution implementation expertise
- More than 20 years of experience helping large, complex, global organizations realize value from their HPE Software investments
- Rich intellectual property and unparalleled reach into product engineering
- Technology-agnostic implementation approach with no vendor lock-in, no rip-and-replace
- Education and support services to ensure adoption

Only HPE Software Services brings together consulting expertise and the industry-leading Hybrid Cloud Management software to help you perform better.

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