Executive summary

Many organizations are seeking to build a private cloud or extend into hybrid cloud to benefit from increased agility and reduced costs. Most customers adopt the “go slow” approach with limited scope pilots and proofs of concept, typically in dev/test environments. These initiatives usually focus on typical scenarios such as Infrastructure and/or Platform as-a-Service (IaaS/PaaS). However, after customers achieve a certain level of comfort with the technology and decide to progress to the next stage of production rollout, more advanced capabilities are often required. HP Cloud Service Automation services help you accelerate such initiatives by providing the expert advice and capabilities required for managing your cloud environments.

Solution overview

As part of HP’s Converged Cloud solutions, HP Cloud Service Automation services is a suite of offerings designed to help you jumpstart your private or hybrid cloud implementations with a set of rapid-implementation options. You begin reaping the benefits early and then we help you mature your capabilities with advanced consulting services. HP Software Professional Services brings together our world-class implementation experience and unique intellectual property to deliver open, extensible service lifecycle management for application and infrastructure services in private and hybrid clouds.

This solution provides:

• Highly automated service lifecycle management
• Comprehensive, unified service management
• Open, extensible architecture
• IaaS/PaaS platform and capabilities

It includes features such as:

• One-touch provisioning of infrastructure, OS, and applications
• Infrastructure monitoring
• Simplified deployment and scaling for private and hybrid clouds
• Baseline automation to introduce repeatability, increase quality, reduce costs, and improve productivity
• Advanced capabilities such as flex up/out, IP address management, charge/show-back, and integration to ITSM tools and processes

Benefits

HP Cloud Service Automation services accelerate time-to-value, delivering the following benefits:

• Rapid baseline deployment in as little as one month
• Increased staff efficiency by automating the provisioning of infrastructure, OS, and applications, and freeing up IT resources to engage in innovation
• Reduced cost of service maintenance by automating patches, monitoring, and compliance
• Improved responsiveness to IT and business users by providing an easy-to-use self-service portal
• Optimal resource utilization by automating the decommissioning of unnecessary services
• Sophisticated cloud implementations with advanced capabilities and ITSM integrations
• Increased quality and reduced deployment risk with HP Cloud Maps

HP Cloud Service Automation 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 HP Cloud Service Automation. Through the usage of HP-provided typical use cases and HP 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 HP Cloud Service Automation, and provides an open architecture foundation and path for future expansions and enhancements. These services are fixed-scope, fixed-price offerings that deliver capabilities such as:

• HP-provided self-service requests; automated infrastructure provisioning, monitoring, and management for Windows and Red Hat Linux
• Automated acquisition and deployment for vendor-recommended patches (Microsoft and Linux)
• Compliance scanning using HP-provided scan procedure
• Trigger utilization alerts with OOB flows using HP SiteScope
• HP Cloud Maps

The service is comprised of the following modules:

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 HP Cloud Service Automation and HP Operations Orchestration
**Service brief**

**HP Cloud Service Automation Services**

- Integration with an infrastructure provider (HP Server Automation, VMware, or Matrix Operating Environment)
- 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 HP 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 HP 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 HP 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 HP Server Automation
- Patch acquisition for Microsoft or Red Hat
- Patching policy creation
- Deployment of one (1) application using HP Application Deployment Cloud Maps

**Solution modules**

These packaged modules enhance the capabilities of Cloud Service Automation through modular customizations and integrations. They extend the deployment to include sophisticated lifecycle actions such as:
- Flex up/out
- IP address management
- Service management integration

**HP Cloud Maps**

HP Cloud Maps are easy-to-use pre-packaged and tested service designs that accelerate the deployment of mainstream applications in cloud environments. They save you weeks or even months when designing cloud services, increasing flexibility for enterprises and creating new revenue opportunities for service providers.

**The HP Software Professional Services difference**

We provide unmatched capabilities with a comprehensive set of cloud consulting services and unique intellectual property that help you implement and manage public, private, or hybrid cloud environments.

- Fast time-to-value: We help you rapidly realize business value by leveraging our deep expertise in HP’s cloud solutions and using our structured and focused implementation approach
- Flexibility: A modular and progressive solution set to meet your current and future needs enables you to implement now, knowing that your investment is protected with a path for future expansion
- Proven cloud solution implementation expertise
- More than 20 years of experience helping large, complex, global organizations realize value from their HP 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 HP Software Professional Services brings together consulting expertise and the industry-leading IT Performance Suite Software and HP CloudSystem to help you perform better.

**For more information**

Contact your HP representative or email HP Software Professional Services in your region. HP is the global leader in IT performance software. We are committed to helping customers optimize the business outcome of IT.

Learn more at [hp.com/go/csaservices](http://hp.com/go/csaservices)

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