

# HPE Automation Services— HPE Server Automation Advanced

## Server lifecycle management for the enterprise

### Executive summary

Analyst research suggests that 70 percent of IT resources are spent on ongoing and routine IT operations. At the same time, we see a continued increase in virtualization and sustained interest and adoption of cloud-based delivery. IT is still required to operate heterogeneous elements in the datacenter; coupled with higher demand for agility from the lines of business and continuing pressure to lower cost and risk, IT is under pressure to transform and optimize their operations and delivery of services. By automating and orchestrating operations in their data centers, IT can significantly improve the time to market and value for the business, increase agility and operational efficiency, and reduce costs. Moreover, automation is at the core of cloud service delivery. With it, IT can set itself on a solid foundation for cloud adoption. The ability to offer services that are provisioned, end-to-end, with the click of a button, relies on seamless task automation and workflow orchestration. This makes automation a necessary stepping stone into the cloud.

### HPE Automation Services overview

HPE Automation Services are a suite of offerings designed to enable customers to successfully adopt automation and orchestration within their data centers. We can help you automate tasks to replace mundane and routine operations such as provisioning, configuration, patching, and IT compliance across heterogeneous physical and virtual servers, networks, databases, and middleware elements. We can help you automate process workflows to orchestrate across infrastructure, platform, and

applications, while leveraging existing investments in your environment.

These automation services will help you realize benefits such as:

- Reduce provisioning time from days to minutes
- Manage an increasing fleet of servers with fewer resources
- Save money and increase user satisfaction by reducing time-to-repair

HPE Automation Services are flexible and progressive. We believe you need to “walk before you can run,” and we aim to deliver maximum value by driving focused, outcome-oriented implementations.

HPE Automation Services set you on your journey with a suite of foundation offerings. These offerings are rapid implementations focused on getting the automation technology platform established and implementing basic capabilities such as simple patching or compliance scanning. We then progress to a set of advanced services which extend your capabilities into new areas or implement more sophisticated use-cases, such as integrating orchestrated flows into your IT service request portal.

### Benefits

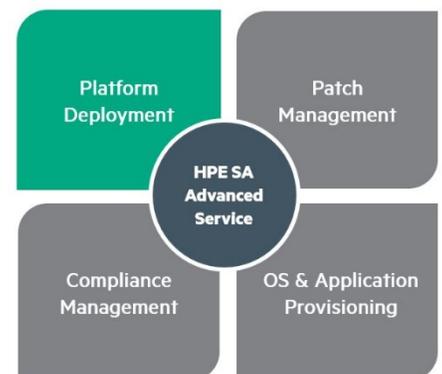
- Drive agility, consistency, and efficiency in IT operations by automating tasks and orchestrating processes – avoiding manual handoffs and human errors – reducing cost, saving time, and improving quality
- Better manage risks and IT compliance by setting and enforcing standards with provisioning and patching of IT

infrastructure, platform, and applications

- Lower operations costs by automating mundane and routine tasks and process workflows
- Timely and accurate assessment, reporting, and remediation of IT compliance using set policies, which helps avoid failing the internal and regulatory audits
- Solutions that leverage existing investments and operate heterogeneous physical and virtual platforms
- Robust integration with HPE and non-HPE tools
- Consolidate multiple point tools and thousands of scripts into easy-to-use process automation flows

### HPE Server Automation Advanced overview

Whereas the HPE Server Automation Foundation service introduces HPE Server Automation into your environment and implements basic capabilities, HPE Server Automation Advanced service delivers an enterprise-scale and production-grade implementation that is scalable, resilient, and stable. We focus not only on the technology but on integrating HPE proven practices into your processes to deliver an end-to-end solution that meets your specific requirements.



This automation service is modular, allowing you to choose where you want to begin and what capabilities you wish to adopt.

### Module I: Platform Deployment

This module is required and included with any optional module you select. In this module, we address the architecture design and deployment of HPE Server Automation: typically one master and one satellite. This configuration provides good balance between cost performance and reliability. However, should you need to deploy a multi-master setup to provide complete redundancy, this can be accommodated. We also deploy HPE Operations Orchestration (if licensed) as the main integration platform between the processes automated by HPE Server Automation and those driving your IT service management framework. For example, before we roll out patches, we initiate a change request within your helpdesk system. To ensure stability, we install, at a minimum, two environments: test and production. Deploying a single production environment poses significant stability risks as it forces you to apply configuration changes without being able to test them. After the products are installed, we discover your servers and deploy the agents. They are now ready to be managed by HPE Server Automation.

### Module II: Patch Management

This module covers the acquisition, deployment, and compliance reporting for patches. We begin by reviewing both your current procedures as well as HPE recommended practices. We then work with you to combine these into a new process, which we implement in the form of patching policies. We then automate the process of acquiring vendor (e.g. Microsoft) patches, raising change requests, rolling out the patches, and running compliance reports.

### Module III: Compliance Management

This module covers the execution of audit scans and the remediation of non-compliant servers. HPE provides, out of the box, a large

number of predefined audit policies such as SOX and PCI. These policies are the starting point from which we adjust the scanning rules to match your requirements. Once done, we automate the end-to-end process of scanning your servers against these policies and non-compliance reporting. We also build the workflows for the remediation of non-compliance (including the raising of change tickets), and then proceed to run the scans, examine the resulting reports, and remediate any problematic targets.

### Module IV: OS & Application Provisioning

This module covers the provisioning of servers (both physical and virtual) and operating systems as well as software packaging and distribution. We help you create and test server build plans for Windows and Linux. We also build and test up to 15 different software packages to include in the server builds. As is the case in all of the other modules, we review your current procedures against HPE-recommended practices and come up with a combination that best suits your needs. We then use the newly created procedure to define the end-to-end provisioning workflows, which we test by provisioning a small number of servers (typically two) of each type.

At the conclusion of the service (and depending on the modules chosen), you will be able to:

- Measure server compliance against a standard audit policy, and cut the costs and times associated with ensuring compliance
- Reduce operational costs and improve quality by automating consistent server provisioning, software packaging and distribution, and patching procedures

## The HPE Software Services difference

HPE provides unmatched capabilities with a comprehensive set of consulting and

implementation services and unique intellectual property that help you manage the performance of enterprise applications, systems, and networks.

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- Proven 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 IT Performance Suite software to help you perform better.

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