



HP Server Automation software

Data sheet



HP Server Automation software provides lifecycle management for enterprise servers and applications from discovery to provisioning, patching to configuration management and script execution to compliance assurance. HP Server Automation automates operations and processes across disparate IT teams and systems.

The need for server automation

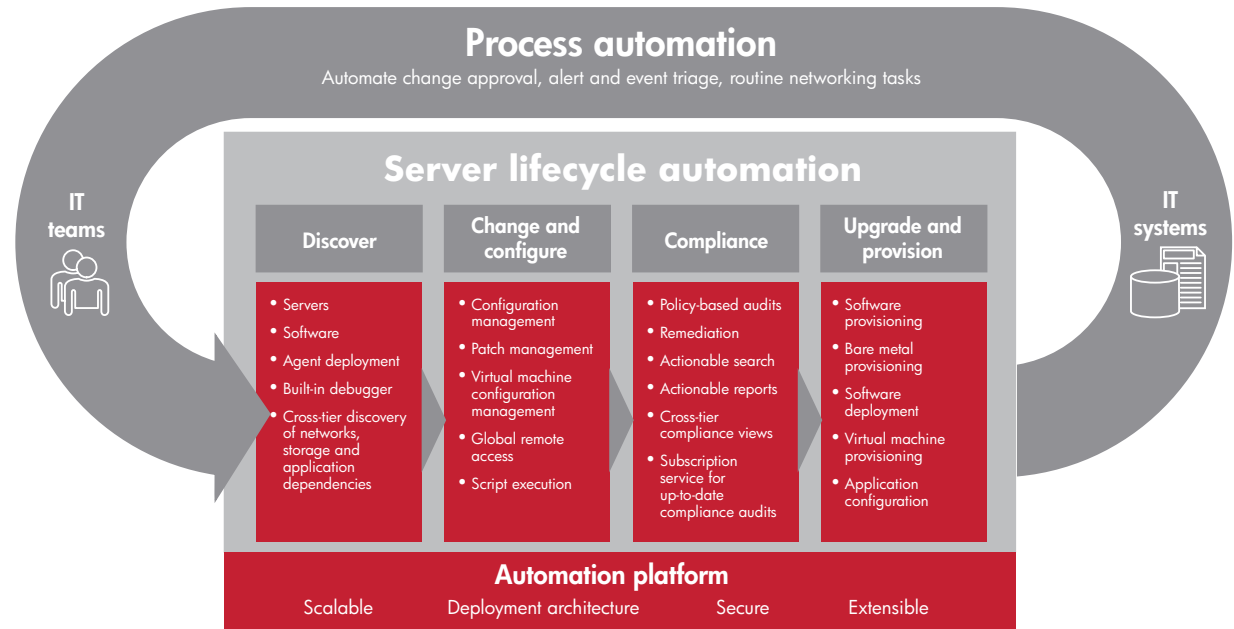
IT organizations face multiple challenges today. Business units demand that you shift from managing discrete devices to delivering enterprise business services. These complex services usually include hundreds of infrastructure elements, distributed across several data centers and managed by different teams and systems. To be able to respond quickly to market needs, business units also demand greater flexibility, agility and accountability, which means you need to manage change more effectively and meet compliance

regulations for your IT infrastructure. To serve both these demands, consider adopting data center automation (DCA) solutions that automate the operations lifecycle of your data center.

Part of the HP Data Center Automation Center, HP Server Automation software provides lifecycle management for enterprise servers and applications from discovery to provisioning, patching to configuration management, script execution to compliance assurance. HP Server Automation also automates operations and processes across disparate IT teams and systems. Leveraging HP Operations Orchestration software, HP Server Automation workflows automatically coordinate and sequence IT processes and sub-tasks for end-to-end management, helping you follow best practices. Through integration with other HP Data Center Automation Center software, HP Server Automation gives you visibility into the network, storage and business application elements, as well as your servers, in your data center.

Server lifecycle automation

HP Server Automation automates server change control processes across the server lifecycle.



Get process-powered automation for managing the operations lifecycle of servers and applications

Visibility and control

HP Server Automation lets you manage your entire server environment—physical and virtual—to gain unprecedented visibility into servers and operations. The automated agent deployment and discovery features let you quickly discover and record all server, operating system, installed packages and configuration data in the data model. The server explorer facilitates easy browsing of individual servers, operating systems, patches, applications and servers. The global shell and Windows PowerShell™ interfaces let you run automation scripts easily and with enhanced security features across multiple servers at once. All administrator actions are stored and digitally signed in a central data repository for performing compliance and IT reporting. With a record of all changes and real-time server and business application views, HP Server Automation provides deep visibility and increased control for your server environment.

Powerful process workflows and ITIL support

To implement process-based initiatives such as the Information Technology Infrastructure Library (ITIL) or to facilitate cross-tier activities, you need to integrate server operation tasks across multiple teams and systems. HP Server Automation lets you create and customize workflows that integrate IT processes across various teams and tools. The workflow sequences coordinate every task within the process while creating an audit trail. You also get several out-of-the-box workflows,

including end-to-end provisioning, ITIL change and incident management workflows and application promotion to production workflows. Integration adapters are available for integration to several IT systems and applications for fast process workflow creation.

HP Server Automation provides several out-of-the-box workflows to implement standard ITIL processes, such as Change Management, Incident Management, Problem Management and Release Management. Using the process automation framework from HP Server Automation, you can enforce, document and log your processes and subtasks, decreasing process hand-off errors and latency.

Best practices

By automating server and operating system provisioning and configuration management using industry best practices, you can simplify the management of large server environments. HP Server Automation also enables multiple groups to collaboratively manage and share best practices to promote infrastructure consistency and compliance. For example, domain expert teams can create baseline infrastructure configuration standards and policies and then share them with IT administrators across your organization, regardless of location and domain skills. In this way, your IT infrastructure follows a defined standard.

Comprehensive and customizable application compliance management

HP Server Automation provides comprehensive compliance capabilities for helping you meet compliance requirements for your servers and applications. At the core of the compliance engine is a powerful framework

for defining operating system, patch, application and configuration policies. You can create, share and enforce policies across distributed environments. You can create the policy framework based on your existing policies and supplement it with industry best practices to create strong policies that meet your specific needs. The HP Live Network provides real-time feeds of vulnerability and compliance audit rules, giving you the latest vendor and best-practice processes.

Additionally, HP Server Automation provides out-of-the-box regulatory compliance reports, including Payment Card Industry (PCI) Data Security Standard (DSS), the Sarbanes-Oxley Act (SOX), Health Insurance Portability and Accountability Act (HIPAA) and other regulations. You can customize the compliance framework to proactively set policies and automatically audit your infrastructure for custom compliance requirements.

With policies in place, you can run regularly scheduled audits to enforce them. To provide an up-to-date view of how servers comply with pre-defined policies, the Compliance Dashboard displays status and provides actionable links, helping you remediate out-of-compliance servers.

Scalable for large server environments

HP Server Automation has a robust architecture with enhanced security features that can scale from managing hundreds of servers in one data center to thousands of servers distributed across multiple data centers and remote locations. Each core server can support thousands of servers, and multiple core servers can be meshed to manage your entire enterprise. HP Server Automation also supports satellite servers for automating the operations for small clusters of servers in remote offices. The Multimaster feature facilitates real-time, event-based synchronization among geographically distributed data centers. With Multimaster, you get a unified view of your IT environment, and authorized users can safely access any server at any location. Multimaster also replicates the latest state of a server for disaster recovery.

Troubleshooting and resolution

HP Server Automation offers powerful troubleshooting capabilities for improving server uptime and performance. A communication channel with enhanced security features lets you access any server and view its operating system, patches, running services and audit

trail information. You can also compare current server states with policy-compliant baselines to identify root causes and decrease time to repair.

Foundation for cross-tier business service management

HP Server Automation is tightly integrated with HP Network Automation software and HP Application Storage Automation software. Together, they give you deep visibility into your network and storage infrastructure for comprehensive service management.

HP Service Automation Visualizer software is also integrated with HP Server Automation. HP Service Automation Visualizer provides a deeper view of your server environment. It visualizes cross-tier services, discovers and draws a map of your application, server, network and storage infrastructure. You can use HP Service Automation Visualizer maps and the application model object to understand your cross-tier infrastructure and to change your server and software applications. You can also understand how changes may affect your server configurations, quickly isolate the changes and reduce mean time to resolution (MTTR).

Key features and benefits

- **Automate configuration and compliance management:** Proactively set and enforce policies to meet compliance requirements. Reduce time to deploy new infrastructures, letting you respond more quickly to changing business needs.
- **Accelerate time-to-repair:** Reduce server and application downtime by decreasing the inconsistencies and misconfigurations at the root of most problems.
- **Improve efficiency:** Achieve server-to-administrator ratios as great as 100:1 by automating daily, time-consuming tasks.
- **Accelerate implementation of process-based initiatives:** Quickly create and customize workflows that integrate and automate operational process across IT teams and systems.

A complete solution

Comprehensive training

HP provides a comprehensive curriculum of HP Software and IT Service Management courses. These offerings provide the training you need to realize the full potential of your HP solutions, increase your network optimization and responsiveness, and achieve better return on your IT investments.

HP Server Automation capabilities

Feature	Description
Process-powered automation	Integrates IT process automation with server operations for closed-loop server lifecycle management. Provides out-of-the-box workflows to automate change, incident and release management processes.
Server and application discovery	Discovers and captures servers, hardware, operating system and software configurations, plus installed software, patches and packages.
Operating system provisioning	Defines server build sequences for provisioning, incorporating operating systems, patches and software policies. Supports Solaris, Linux and Windows®. Integrates with HP-UX and AIX. Supports provisioning of VMware Hypervisor.
Patch management	Quickly and accurately identifies server vulnerabilities and reduces the time needed to patch multiple servers. Enables patch policy creation and flexible patch deployments. Supports native patch formats for all major operating systems. Provides out-of-the-box integration with Microsoft® Patch Network and Red Hat Network.
Audit and compliance management	Enables rapid troubleshooting and configurable compliance management by comparing servers to reference servers, most golden reference snapshots, industry best practices or user-defined scripts. Provides comprehensive compliance dashboard with consolidated servers and cross-tier compliance views.
Software management	Enables code and application deployment on servers in single or multiple instances without proprietary packaging. Imports files, objects and scripts to define configuration best practices with graphical user interface (GUI) ordering or deployment and uninstall. Uses a granular permissions model to share applications with developers and administrators.
Remote server access	Uses the communications channel with enhanced security features, audit logs and access control policies to provide direct connections to servers in any location. Supports remote desktop connections, Windows PowerShell and any shell for UNIX® and Linux environments.
Global shell	Improves automation efficiency by managing remote systems and executing tasks from a command line interface. Also supports Windows PowerShell to provide a command line interface (CLI) to Windows servers.
Reporting	Provides dynamic, real-time and historical reports into hardware, software, patches and operations activities in complex, heterogeneous data centers. Includes out-of-the-box compliance reports and at-a-glance compliance status with actionable links to servers, policies and other objects. Exports reports to HTML and comma-separated values (CSV) formats.
Visual application manager	Visualizes server, network, storage and logical application environments and dependencies and compliance state. Provides Layer 2 and virtual LAN (VLAN) network information. Intuitive visual snapshot comparison reduces troubleshooting time.
Multiple data center operations	Manages all servers in any location with Multimaster and Satellite architectures. Uses Multimaster technology to perform safe and real-time replication of critical server and software information to all data centers. Communicates over a common network port for easy and safe network firewall configuration.
Extensibility	Platform extensions add a customizable GUI and execution engine to the powerful HP Server Automation API. Create and deploy custom automation applications and regulate access to applications with granular security.
Integrated with HP Network Automation software	Views and logs into network devices using the global shell. Creates integrated server and network device groups and interleaved change histories. Detects configuration mismatched automatically. Maps firewall and load balancers associated with servers in HP Service Automation Visualizer.
Integrated with HP Application Storage Automation software	Automatically discovers your storage infrastructure to provide visibility from applications to servers and storage devices. Reports on storage capacity and utilizations. Configures storage compliance audits.

HP Services

Get the most from your software investment

HP provides high-quality software services that address all aspects of your software application lifecycle needs. With HP, you have access to standards-based, modular, multi-platform software coupled with global services and support. The wide range of HP service offerings—from online self-solve support to proactive mission-critical services—enables you to choose the services that best match your business needs.

For an overview of HP software services, visit www.managementsoftware.hp.com/service.

To access technical interactive support, visit Software Support Online at www.hp.com/managementsoftware/services.

To learn more about HP Software Customer Connection, a one-stop information and learning portal for software products and services, visit www.hp.com/go/swcustomerconnection.

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The smartest way to invest in IT

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