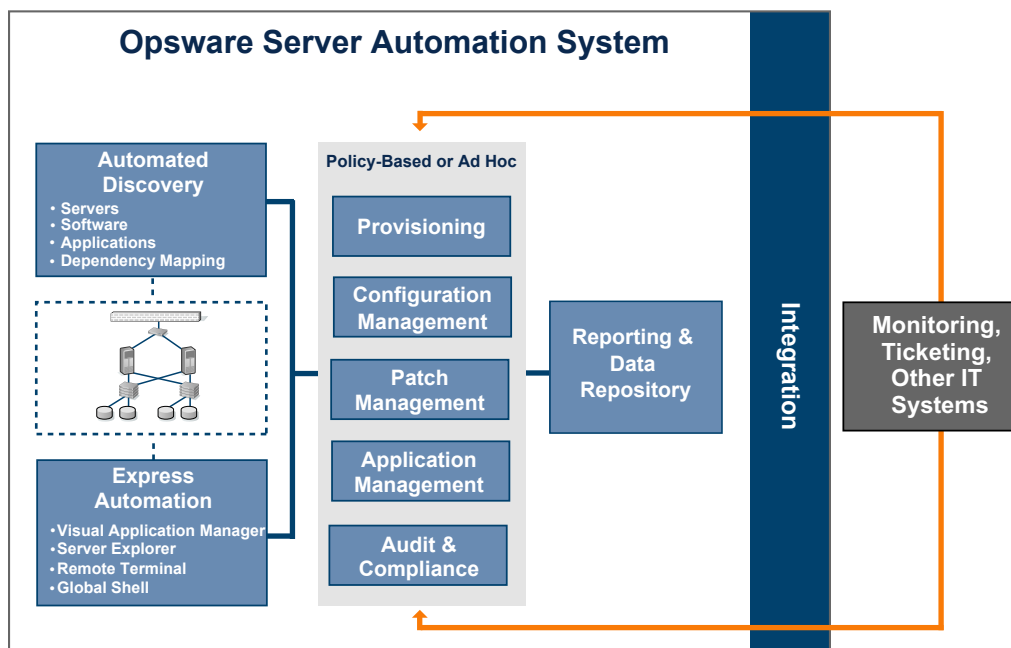


Opsware Server Automation System 6

Automating End-to-End Server and Application Management

As IT shifts from managing discrete devices and applications to delivering integrated enterprise services, it must balance the need for infrastructure flexibility with demands for greater accountability—while contending with a growing number of systems that are linked across the infrastructure. Automation has become essential to achieving balance and ensuring efficient, accurate operations. Opsware Server Automation System 6 provides IT organizations with industry-leading automation capabilities. From provisioning and patching, to audit, remediation, and reporting—Opsware Server Automation System 6 can automate and integrate server management across the entire application environment.



From discovery through change configuration and management, to audit, remediation and reporting, Opsware Server Automation System 6 can automate the entire server operations lifecycle.

The Opsware Server Automation System 6 is part of the Opsware System 6 product suite, a comprehensive Data Center Automation solution for managing servers, network devices, software infrastructure, and business applications. Opsware Server Automation System 6 automates management of Windows, Linux, Unix servers and applications using a comprehensive policy framework that captures best practices and standard settings across servers, software, patches, and application configurations.

Opsware Benefits

Automate Compliance Management

Proactively set and enforce policies to meet compliance requirements.

Standardize Deployment and Configuration Management

Reduce the time to deploy new infrastructure by a factor of 10, enabling IT to react more quickly to changing business needs.

Accelerate Time-to-Repair

Reduce server and application downtime by up to 90% by eliminating the inconsistencies and misconfigurations at the root of most problems.

Improve Efficiency

Achieve server-to-administrator ratios as great as 100:1 by automating the time-administrators' daily time-consuming tasks.

Highly Scalable for Large Server Environments

Opsware Server Automation System has a secure and scalable architecture that can manage thousands of servers distributed across multiple data centers and remote locations. Opsware's Multimaster technology facilitates real-time, event-based synchronization between geographically distributed data centers. Opsware Satellite automates operations for small clusters of servers in remote offices. With Multimaster and Satellite, Opsware provides a unified view to the IT environment through the command line and GUI, allows policies to be shared across groups and ensures simple, consistent management of all servers, regardless of location.

Foundation for Enterprise-wide Management

When Opsware Server Automation is integrated with Opsware Network Automation System 6, IT organizations gain unprecedented visibility and control over the server, application, and network infrastructure. Integrating Opsware Server Automation and Network Automation Systems enable members of the entire IT organization to share information, gain a common view of the environment, execute configuration management, and improve operational efficiency, productivity, and agility. The Opsware Visual Application Manager extends server and network automation capabilities even deeper, allowing IT to visualize the entire server or IT environment. Opsware VAM automatically highlights system and application dependencies, delivers real-time information about processes, and enables IT to take change and configuration action from a visual map.

Benefits

Increase Visibility and Control

Opsware Server Automation System 6 enables IT to bring the entire server environment under management quickly and gain unprecedented visibility into servers and operations. Once servers are discovered and under management, Opsware provides unmatched flexibility for managing and reporting server operations. For example, Automated Agent Deployment and Discovery features enable IT to quickly discover and record all server, operating system, installed packages, and configuration data in the Opsware data model. The Server Explorer presents this information, facilitating easy browsing of individual servers, operating systems, patches, applications, and server history. The Global Shell interface allows administrators to run automation scripts easily and securely across multiple servers at once. All administrator actions taken in Opsware Server Automation System 6 are stored in a central data repository for performing compliance and IT reporting. With a record of all changes, real-time server and applications views, Opsware provides deep visibility and maximum control over the server environment.

Automate Compliance Management

Automation provides a powerful tool for meeting compliance requirements. Opsware includes a framework for defining operating system, patch, application, and configuration policies and enables these policies to be created, shared, and enforced across a distributed environment. The Opsware policy framework can be built on an organization's existing policies and supplemented with industry best practices to create strong policies that meet specific organizational needs. With policies in place, regularly scheduled audits can ensure that adherence to policies is enforced. To provide an up-to-date view of how servers comply with pre-defined policies, the Compliance Dashboard displays at-a-glance status and also provides actionable links, enabling administrators to easily remediate out-of-compliance servers.

Accelerate Troubleshooting and Resolution

Opware Server Automation System 6 offers powerful troubleshooting capabilities that aid in optimizing server uptime and performance. A secure communication channel enables IT to access any server under management and view operating system, patch, running services and audit trail information. IT can compare current server states with policy-compliant baselines to identify root causes and minimize time to repair.

With Opware Visual Application Manager and integration with Opware Network Automation System 6, IT can gain a deeper view into root causes. Opware delivers visibility into process dependencies, automates identification of cross-configuration problems, and maps Layer 2 connections between servers and network devices to improve time to repair.

In addition to accelerating troubleshooting and problem resolution with real-time views and automated compliance notification features, Opware's integration interface enables Opware Server Automation System 6 to be easily integrated with existing incident management and monitoring solutions.

Standardize Deployment and Configuration

By automating server and operating system provisioning and configuration management using industry best practices, Opware significantly simplifies ongoing management of any large server environment. IT can easily create a baseline configuration and deploy it consistently across the enterprise, minimizing the issues associated with inconsistent deployments. Ongoing patching can be automated and policy-driven to maintain environmental consistency and minimize security vulnerabilities.

TASK DESCRIPTION	BEFORE OPSWARE	WITH OPSWARE	SAVINGS
Reallocating development servers	3 weeks	2 days	90%
Identify vulnerabilities & patch Windows, Solaris, & Linux servers	167 hours	10 hours	94%
Provision & configure 600 Windows servers	3-4 months	2 weeks	86%
Test recovery of servers after power shutdown	6 hours	1 hour	83%
Time to restore after unscheduled downtime	3.5 hours	30 minutes	85%
Audit & track configurations of 100 servers	5 hours	2 minutes	99%
Identify vulnerabilities & patch 1800 UNIX servers	400 hours	2 hours	99%

About Opware System 6

Opware Server Automation System 6 is part of the Opware System 6 product family. Opware provides the most comprehensive solution to automate the entire operations lifecycle for server hardware, software, and network infrastructure. Please visit www.opware.com to learn more about Opware Network Automation System 6, The Opware Network, and other product offerings.

OPSWARE SERVER AUTOMATION OVERVIEW

Server and Application Discovery	Performs network scan and automatically identifies servers not under Opsware management. Discovers and captures server hardware, OS, and software configurations, plus installed software, patches, and packages.
OS Provisioning	Define server build sequences for provisioning, incorporating OS, patch, and software policies. Supports Solaris, Linux, and Windows. Integrates with HP-UX and AIX.
Configuration Management	Tracks, backs up, and recovers critical software and system configuration information across servers located in one or more data centers. Enables creation and enforcement of parameter-level control over deployed applications.
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.
Audit and Remediation	Enables rapid troubleshooting and compliance management by comparing servers to reference servers, snapshots, industry best practices, or user-defined scripts. Create compliance tests to actively manage configuration drift and enforce corporate policies.
Software Management	Enable multiple redeployments of applications, incorporating software content and configuration best practices in the same package. Flexible folder and permissions model to align with business needs.
Remote Server Access	Leverages Opsware's secure communications channel, audit logs, and access control policies to provide direct connections to servers in any location. Supports Remote Desktop Connection for Windows and any shell for UNIX and Linux environments.
Global Shell	Manage remote systems from a command line interface. Enables administrators to perform tasks across multiple servers with efficiency and security.
Reporting	Provides dynamic, real-time reports into the hardware, software, patches, and operations activities in complex, heterogeneous data centers. Fast, out-of-the-box compliance reports; at-a-glance compliance status with actionable links to servers, policies, and other objects. Export reports to HTML and CSV formats.
Visual Application Manager	Visualize server, network, and logical application environments and dependencies. Provides Layer 2 and VLAN network information. Search interface for troubleshooting.
Multi-data Center Operations	Manage all servers in any location with Opsware's Multimaster and Satellite architecture. Leverages Opsware Multimaster technology to perform secure and real-time, replication of critical server and software information to all data centers. Enables rapid rebuilding of servers using detailed configuration information stored in Opsware's data model.
Extensibility	Enables automation of organization-specific processes and technologies and enables integration with other IT systems to maximize benefit and ROI of automation.
Integration with Network Automation System 6	View and log into network devices using the Global Shell. Integrated server and network device group creation and interleaved change history. Automated configuration mismatch detection.



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