

BigFix Multicloud Management

Identify, manage and secure multicloud workloads with a single solution



Enterprises are moving their IT infrastructure from traditional, on-premise data centers to the cloud because of the obvious benefits provided by the cloud such as greater workload elasticity, increased operational agility, improved resource availability and reliability, and a utility pricing model. Most organizations are also embracing a multicloud strategy that renders more provider choices to deploy the workloads to avoid vendor lock-in or to take advantage of best-of-breed services.

As organizations are deploying IT workloads in the multiple clouds, many have faced challenges in managing security and staying compliant:

- Each cloud comes with a whole new set of services or management tools, which existing IT infrastructure or administration teams struggle to adopt.
- With more flexibility rendered to development or operation teams to instantiate new cloud workloads, it is difficult for an IT ops or security team to have full visibility to all cloud workloads, let alone to manage or secure them.
- Most organizations have a hybrid environment across cloud and on-premise, but all regulatory mandates and fundamental security hygiene tasks such as patching to remediate vulnerabilities or ensuring secure configurations still broadly apply, no matter where the workloads are running. It is ineffective using different solutions to manage or secure workloads running on premise and in the cloud and to integrate data across various environments to demonstrate compliance.

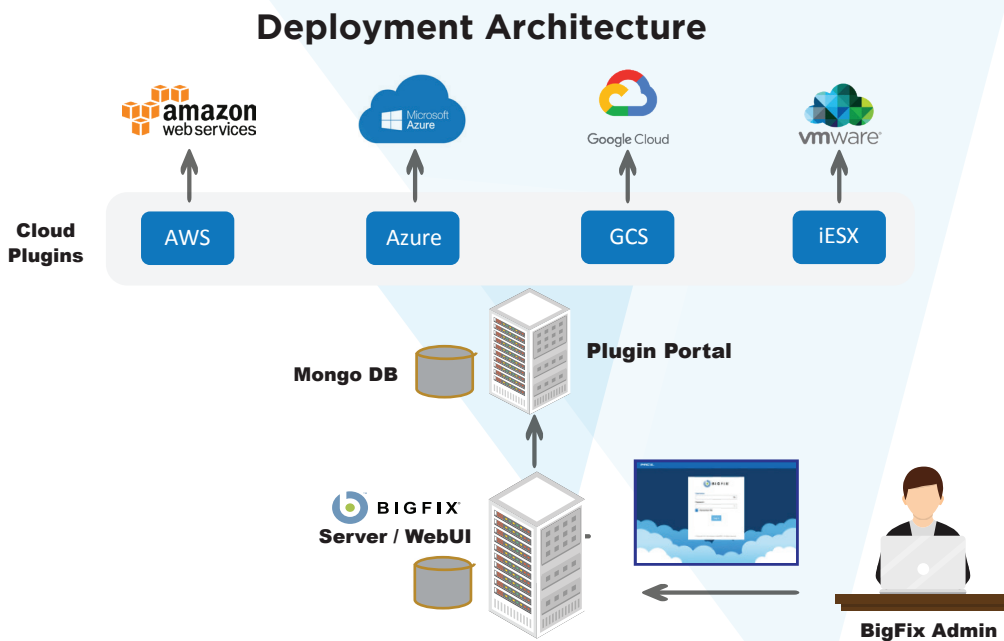
BigFix's well-established endpoint management capabilities have been extended to support multicloud environments to provide a single solution for organizations to identify, manage and secure workloads across multiple clouds and on-premise endpoints in a consistent and effective manner. BigFix enables organizations to embrace the multicloud strategy while keeping endpoints secure and continuously compliant.

Highlights

- A single solution to manage and secure cloud workloads across AWS, Azure, Google Cloud, eliminating a need to acquire and deploy each cloud provider's native services.
- Continuously discover all cloud instances, apply patches, and track security configurations and software inventory to ensure all workloads are always patched and compliant.
- The same infrastructure is leveraged to manage both cloud workloads and on-premise endpoints, significantly reducing administration overhead while meeting security and compliance requirements consistently.

Simple deployment

BigFix deploys a simple and expandable architecture to manage workloads across multiple clouds. A Plugin Portal server acts as a focal point to manage all the communications between BigFix and the clouds. A cloud-specific plugin is deployed to retrieve all cloud workload data using the cloud native APIs. This allows an existing BigFix deployment to be leveraged and quickly extended to perform cloud management with minimal effort. The Plugin Portal and cloud specific plugins are included in the BigFix Platform so there is no additional cost.



Efficient cloud workload discovery

Cloud spawl is a major challenge facing organizations today. Without being able to identify all cloud workloads, it is impossible to secure them. With BigFix multicloud management, all Virtual Machine (VM) based cloud instances are quickly identified and reported on the BigFix Console or WebUI. The properties of each VM are retrieved using cloud-native APIs without a need to install a BigFix Agent. If desired, a customer can also install a BigFix Agent on a VM instance to retrieve more properties and enable management. All the properties reported via the cloud API or the BigFix Agent are aggregated for comprehensive reporting. By tracking all cloud instances in a single pane of glass, customers can efficiently identify unmanaged blind spots and take additional actions if necessary.

The screenshot shows the BigFix console interface. The top navigation bar includes 'BIG F I X', 'Devices', 'Apps', 'Deployments', and 'Reports'. The main content area is titled 'Devices' and shows a list of 1238 devices. The table has columns for 'Computer Name', 'Critical P...', 'Manage...', 'Applicab...', 'Deploy...', 'Device T...', 'OS', 'Groups', 'DNS Name', 'Agent St...', 'User Na...', and 'Last Re'. The table is sorted by 'Computer Name' and shows various devices with their respective properties.

Computer Name	Critical P...	Manage...	Applicab...	Deploy...	Device T...	OS	Groups	DNS Name	Agent St...	User Na...	Last Re
IEMSRVINT	No	BES Agent...	19	92	Server, Clo...	Win10 10.0...		IEMsrvint	Installed	giovanni	an hour a
CINZIARELAY2	Yes	BES Agent...	19	0	Server, Clo...	Win2019 1...		CinziaRelay2	Installed	<none>	8 minutes
CINZIAWINSER...	Yes	BES Agent...	19	16	Server, Clo...	Win2016 1...		CinziaWinS...	Installed	Administra...	9 minutes
CINZIAWINCLO...	Yes	BES Agent...	15	2	Server, Clo...	Win10 10.0...		CinziaWin...	Installed	<none>	12 minute
WINDOWS2016	No	BES Agent...	12	2	Server, Clo...	Win2016 1...		windows2...	Installed	<none>	3 minutes
tm-AZU-besage...	No	Azure	0	0	Cloud	Linux		10.190.166...	Not installed	N/A	2 months
LucaTest3-W20...	No	Azure	0	0	Cloud	Windows		10.190.166...	Not installed	N/A	an hour a
ip-192-168-39-43	No	AWS	0	0	Cloud	windows		ip-192-168...	Not installed	N/A	an hour a
ip-10-190-168-1...	No	AWS	0	0	Cloud	N/A		ip-10-190-1...	Not installed	N/A	4 days ag
ip-10-190-168-46	No	AWS	0	0	Cloud	N/A		ip-10-190-1...	Not installed	N/A	2 days ag
ba-gcl-nativeag...	No	GCP	0	0	Cloud			N/A	Not installed	<none>	6 months
ip-192-168-39-44	No	AWS	0	0	Cloud	N/A		ip-192-168...	Not installed	N/A	an hour a
ip-10-190-168-1...	No	AWS	0	0	Cloud	N/A		ip-10-190-1...	Not installed	N/A	6 months
ip-10-190-168-20	No	AWS	0	0	Cloud	windows		ip-10-190-1...	Not installed	N/A	2 months

Continuous compliance

Once a BigFix Agent is installed on a cloud instance, all the existing BigFix functionalities and benefits, such as applying patches to remediate vulnerabilities, continuously assessing security configurations and remediating noncompliance, or identifying unauthorized software applications, can be completely realized on cloud workloads as well. Each cloud instance can be fully managed and made compliant with either a regulatory mandate or an organization policy, just as a server running in the data center or an employee desktop or laptop.

A hybrid environment means cloud + on-premise

Although almost all organizations are moving their workloads to the cloud, there are always on-premise endpoints that need to be managed and secured. With BigFix multicloud management, an organization can now manage both cloud workloads and on-premise endpoints using a single infrastructure and management model. It enables an organization to reduce total endpoint management cost, expedite the transition of workloads from on-premise to cloud, and meet security and compliance requirements consistently.

The BigFix Family

have dramatically consolidated IT tools and endpoint agents, while supporting new work paradigms such as work from home initiatives.

The BigFix family includes:

- **BigFix Inventory**—Enables users to discover and analyze applications installed on desktops, laptops, and servers; and to drill-down for information about software publishers, titles, and applications—down to the version level. Inventory provides valuable insight into what the organization owns, what it has installed but does not own, and details about how often the software is being used.
- **BigFix Lifecycle**—Quickly discover, secure, and manage hundreds of thousands of endpoints within hours or minutes, and provides an automated, simplified, patch process that achieves greater than 98% first-pass patch success rates across on-premise, roaming or cloud endpoints running Windows, UNIX, Linux, macOS. BigFix Lifecycle also includes OS provisioning, software deployment, remote control, server automation, power management, Insights advanced analytics platform, Modern Client Management and integration with leading vulnerability management systems.
- **BigFix Compliance**—Continuously enforces endpoint configuration compliance with thousands of out-of-the-box security checks aligned with industry-standard security benchmarks published by CIS, DISA STIG, USGCB and PCI-DSS. Compliance provides an automated, simplified, patch process that achieves greater than 98% first-pass patch success rates across on-premise, roaming or cloud endpoints running Windows, UNIX, Linux, macOS. BigFix Compliance also includes Insights advanced analytics platform, Modern Client Management and integration with leading vulnerability management systems.
- **BigFix Modern Client Management**—Extends visibility and control of Windows 10 and macOS endpoints by leveraging an MDM API approach allowing organizations ability to manage both modern and legacy endpoints using a single, enterprise endpoint management solution. It delivers end-user-initiated enrollment, detailed inventory of endpoints, and a number of MDM actions such as remote wipe. BigFix Modern Client Management is included in both BigFix Lifecycle and BigFix Compliance.
- **Key Integrations**—Enhance staff productivity of the IT and security organizations and increase your return on investment by automating endpoint management processes and endpoint data used by various stakeholders. For example, one of the newest integrations available from HCL is the **BigFix Insights for Vulnerability Remediation Module** that speeds remediation of vulnerabilities found in leading vulnerability management systems by automating the correlation of scan data with BigFix Fixlets. The module is available to licensed users of BigFix Lifecycle or BigFix Compliance.



For more information

To learn more about BigFix, contact your HCL Software representative, HCL Business Partner, or visit www.BigFix.com.



About HCL Software

HCL Software is a division of HCL Technologies (HCL) that operates its primary software business. It develops, markets, sells, and supports over 20 product families in the areas of DevSecOps, Automation, Digital Solutions, Data Management, Marketing and Commerce, and Mainframes. HCL Software has offices and labs around the world to serve thousands of customers. Its mission is to drive ultimate customer success with their IT investments through relentless innovation of its products. For more information, please visit www.hcltechsw.com.

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