BMC Helix Continuous Optimization

Proactively plan, manage, and optimize IT resources for business service assurance

PRODUCT DESCRIPTION

BMC Helix Continuous Optimization uses intelligence and predictive analytics to dynamically align infrastructure resources with the demands of applications including those based on Kubernetes, micro-services, pods, containers and multi-cloud resources.

BUSINESS CHALLENGE

As organizations adopt new technologies and cloud to deliver digital services faster and more reliably, continuous IT resource optimization and service assurance have become a major challenge. The combination of multi-cloud, hybrid cloud, and legacy on-premises infrastructure, along with the increased deployment of applications based on Kubernetes, micro-services, containers, and pods have dramatically increased IT complexity. DevOps teams are spending too much of their time fixing problems instead of innovating and driving competitive advantage. Self-service capabilities can lead to over-provisioning of resources and increased costs, while insufficient resource allocation can lead to application performance degradation and failures. Organizations need to continuously optimize resource use and minimize costs, while simultaneously supporting fluctuations in business service demand.

BMC SOLUTION

BMC Helix Continuous Optimization provides ongoing visibility to the entire IT infrastructure — physical, virtual, cloud, Kubernetes, microservices and container-based applications — so IT can easily add, remove, or adjust compute, storage, network,

KEY FEATURES

BMC Helix Continuous Optimization enables IT to keep pace with changes in resource demands while still assuring service performance and availability.

- BMC Helix Continuous Optimization integration with BMC Helix Intelligent Automation provides proactive brokering of AI & ML recommendations to achieve resource optimization and manage risk.
- Gain visibility across the enterprise, including legacy applications, on-premises, physical, virtual, containers, Kubernetes, PODS and cloud infrastructure resources.
- Understand the overall health of business services using comprehensive views and predictive saturation forecasting to avoid failures and slow downs.
- Deploy applications on time by reserving IT resources when needed.
- Consolidated views of application and infrastructure metrics to maximize performance and minimize costs.
- Optimize costs with the insight to invest in new physical, virtual, container, or cloud resources only when needed.
- Simulate and analyze cloud migrations and Kubernetes workload impact before implementation.

KEY BENEFITS

- Defer or eliminate capital expenditures by 30% or more.
- Reduce cloud spend with right-sized recommendations for migrating workloads.
- Fast ROI with average payback in 9 months.

Optimize Containers for Kubernetes Platforms
network, and other resources to assure services and meet changing application demands. Service views, forecasting, modeling, and simulated migrations provide insight for future resource needs and the ability to control the timing and cost of new capital and operating expenditures. Self-service dashboards, business services views, and reports keep project owners, business owners and other stakeholders informed of overall health and status of business services, application and infrastructure metrics provide insights into risk, efficiency, and cost of resources running a service.

**PRODUCT DETAILS**

BMC Helix Continuous Optimization gives IT the ongoing insights needed to balance resources with application demands, and provide cost-efficient business service assurance.

**Service Assurance** enables increased visibility and insight of the resources in your infrastructure:

- View the usage and performance of infrastructure resources that are running your applications and business services and visually see where they are located, on-premises or in the cloud.
- Comprehensive visibility across the enterprise, including legacy applications, on-premises, physical, virtual, containers, Kubernetes, PODS and cloud infrastructure resources helps maximize performance, availability, and service.
- Apply intelligence and advanced, predictive analytics to identify opportunities for optimization, such as overallocated pods and containers, oversubscribed nodes and clusters, and other potential bottlenecks.
- Determine the optimum allocation of your Kubernetes pods with “what-if” workload simulations to identify potential bottlenecks and capacity issues to help right size pod workloads.
- Ensure the performance of your applications and services by assuring sufficient resources are available when they are needed based on the behavior of the service.
- Minimize potential change related resource problems by leveraging “what if” simulations to further ensure readiness for growth or changes in resource allocation.

**Business-Aware Analytics**: Understanding future resource needs can be a challenge. With the ability to easily forecast saturation levels and use business KPIs to identify resource needs for changing business demand. Business Aware Analytics provides the insights needed to ensure service assurance aligns with emerging business requirements. Advanced capabilities allow you to understand how configuration changes can affect application performance, business KPIs and what is required to sustain service levels.

**Business Service Views**: Provides a consolidated summary of the overall health and status of the business services in your infrastructure. You can drill down into specific business services and view the associated applications, service pools, or deployment details. This information helps you analyze the capacity at the service pool or deployment level.

**“What-if” simulations for cloud migrations and Kubernetes deployments**: Eliminate costly surprises with the automated migration simulation of compute resources. Right-sized recommendations for cloud and Kubernetes resources are provided, along with the associated cost comparisons and performance benchmarks.

**Reservations**: Deploy applications and services on time with an understanding of what resources are available at the time of release. With the ability to view current resources — used and available — along with future on-boarded and off-boarded resources, you can make reservations for future needs.

**FOR MORE INFORMATION**

To learn more about BMC Helix Capacity Optimization, please visit [bmc.com/optimize](http://bmc.com/optimize)