



## Hybrid observability in HPE GreenLake Flex Solutions

The digitization of today's business is accelerating the growth of distributed hybrid cloud infrastructure environments. While hybrid cloud offers enterprises more choice, flexibility, and scalability in sourcing their IT resources, it comes with the significant challenge and complexity of managing IT resources across multiple environments and providers. IT teams are struggling with manual siloed resources, processes, and data that significantly reduce visibility, control, and efficiency. A new intelligent approach to managing end-to-end IT application and infrastructure observability, management, and automation is required to continue driving efficiency and innovation. HPE GreenLake solutions were designed to address this need with integrated AI-powered hybrid observability that comes standard within every HPE GreenLake Flex Solutions.

HPE customers have the visibility and control to optimize uptime and infrastructure operating costs while improving process efficiencies and meeting the ever-evolving needs of digital business.



## Optimize costs and utilization

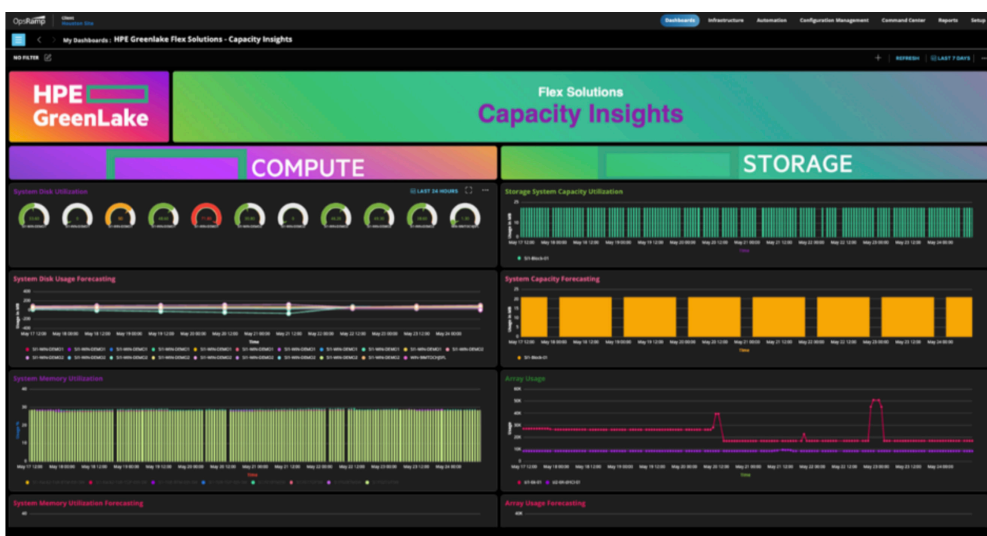
Managing hybrid cloud costs is challenging; it's easy for resource islands to form, and managing utilization becomes fragmented and often manual. With hybrid observability built into HPE GreenLake Flex Solutions, you'll have an AI-powered command center to help assure optimal resource allocation and utilization, and the ability to forecast future requirements.

The hybrid observability command center will discover all of your hybrid infrastructure resources and automatically map application dependencies to supporting infrastructure resources while providing end-to-end monitoring and management, helping eliminate the resource islands in the cloud or the data center.

Hybrid observability breaks down the resource islands through:

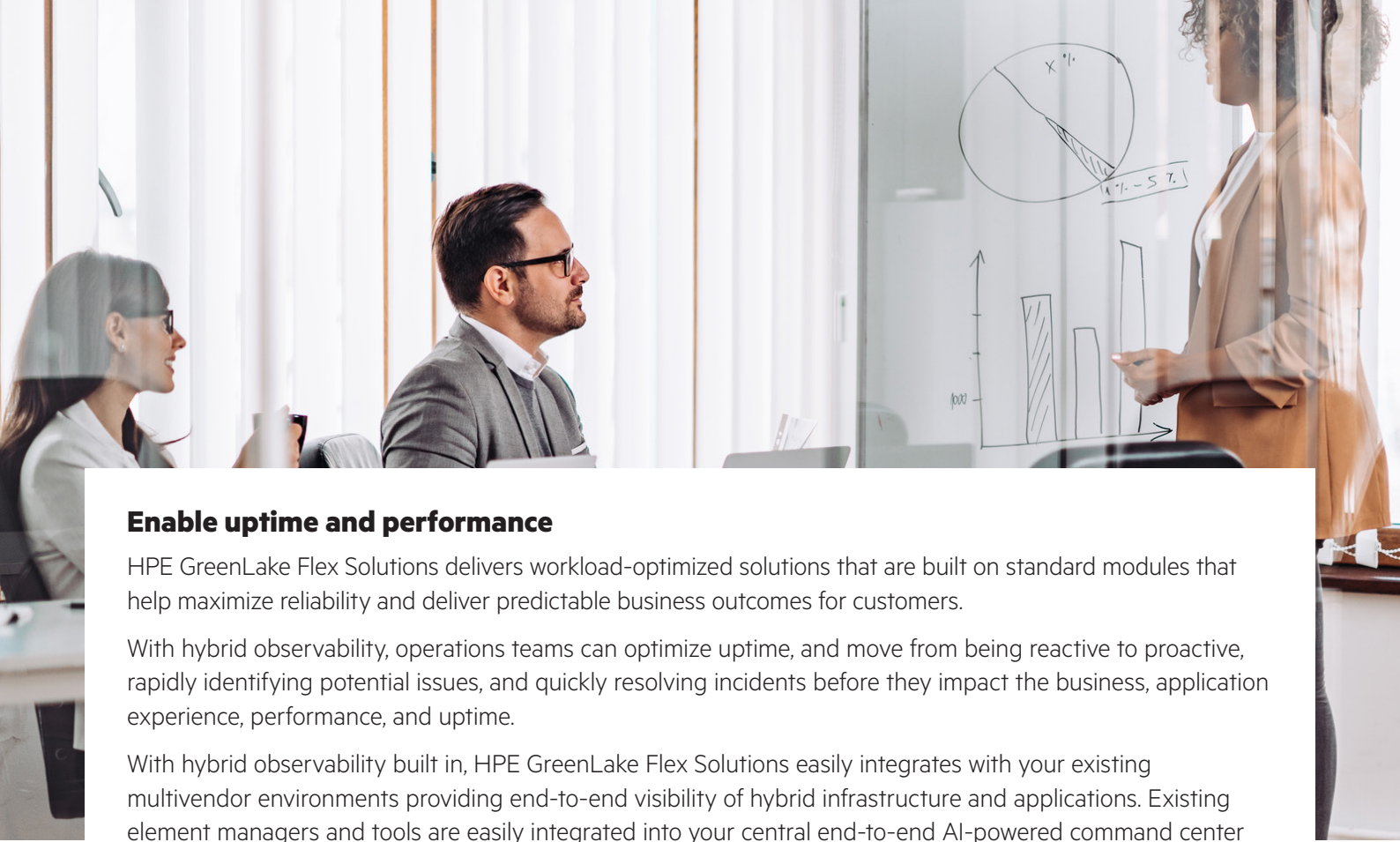
- Multivendor capacity, usage, and forecast analytics that span from the edge to the cloud
- Customizable dashboards and reporting that provide the business the insights and visibility into cost, utilization, and capacity (Figure 1)
- Asset lifecycle management to discover, track, and manage physical, virtual, and application resources from the edge to the public cloud

With more than 3000 prebuilt integrations with infrastructure devices, cloud services, and third-party applications, hybrid observability provides you the centralized monitoring and visibility needed to increase utilization and reduce operating costs.



**Figure 1.** HPE GreenLake Hybrid Observability Capacity Insights Dashboard





## Enable uptime and performance

HPE GreenLake Flex Solutions delivers workload-optimized solutions that are built on standard modules that help maximize reliability and deliver predictable business outcomes for customers.

With hybrid observability, operations teams can optimize uptime, and move from being reactive to proactive, rapidly identifying potential issues, and quickly resolving incidents before they impact the business, application experience, performance, and uptime.

With hybrid observability built in, HPE GreenLake Flex Solutions easily integrates with your existing multivendor environments providing end-to-end visibility of hybrid infrastructure and applications. Existing element managers and tools are easily integrated into your central end-to-end AI-powered command center that allows your operations team to centrally monitor and manage hybrid cloud infrastructure and applications (Figure 2). AI-powered event and incident management, with out-of-the-box dashboards, backed by intelligent automation and remediation includes:

- Full-stack technology observability spanning the edge network, supporting multivendor infrastructure and public cloud services
- Health and performance data across business applications, transactions, and the multivendor infrastructure they run on
- Service dependency mapping that discovers and maps application dependencies from edge to cloud

With a multivendor AI-powered command center, hybrid observability puts your operations teams back in charge of end-to-end performance and availability of hybrid infrastructure and applications.

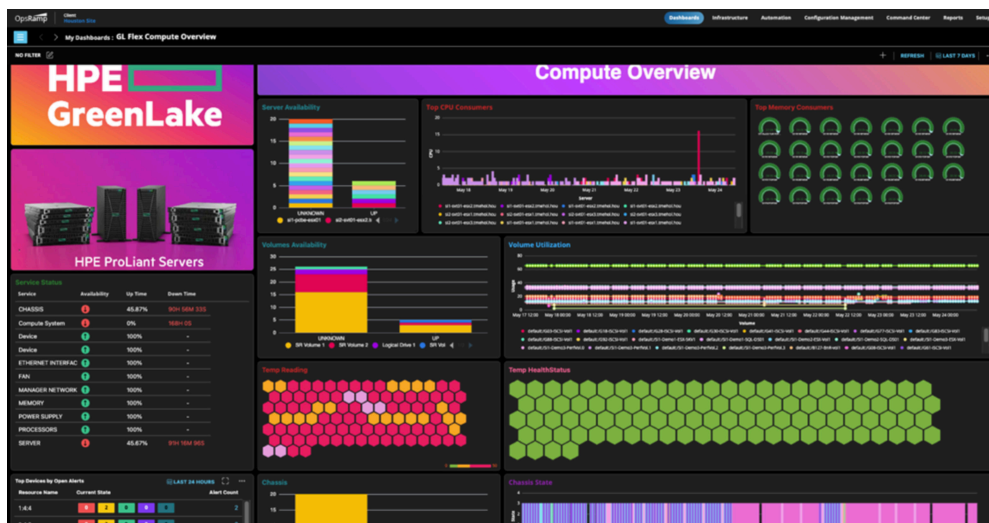


Figure 2. HPE GreenLake Hybrid Observability Uptime and Performance Dashboard





## Streamline IT operations and service delivery

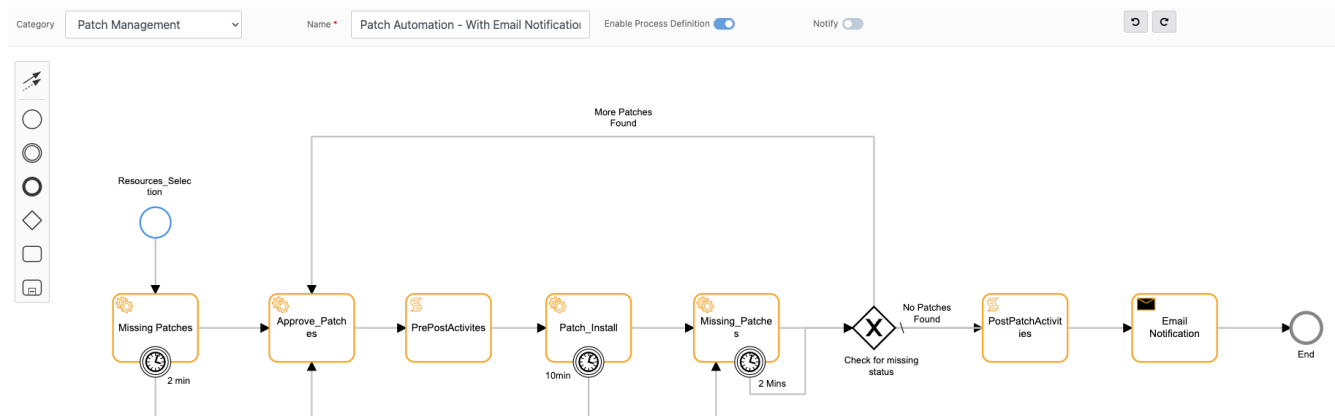
Today's operations teams are being asked to deliver higher service levels continuously. Yet they are stuck with disconnected point tools and element managers that fragment visibility and control, making this goal almost impossible to achieve.

With hybrid observability built in, HPE GreenLake Flex Solutions integrates existing element managers and point tools to help eliminate the fragmentation facing IT operations teams, delivering seamless control through the AI-powered command center. By utilizing policy-based automation of routine remediation and operational tasks, IT operations teams are freed up from manual and error-prone activities. Process automation provides an intuitive workflow editor allowing IT teams to define scheduled or event-driven, consistent, and repeatable processes across their hybrid infrastructure (Figure 3). The hybrid observability command center makes it easy to automate common activities such as configuration changes or rollback, patching, event escalation, and intelligent remediation, making your teams more efficient in their day-to-day tasks.

Hybrid observability provides IT operations teams with an automation platform to streamline operations and service delivery by:

- Delivering unified visibility from the edge to the cloud across hybrid applications and infrastructure
- Reducing event noise through AI-powered event correlation and suppression to help identify root cause quicker, and automate remediation of incidents
- Forecasting future performance or capacity events using AI which analyzes patterns within ingested logs, traces, and NetFlow data to understand daily or seasonal behavior preventing business impact through proactive remediation
- Seamless bidirectional integration with existing ITSM and service desk tools for ticketing, notification, escalation, and process management
- Leverage and reuse existing investments in script automation, and API driven infrastructure and software

With hybrid observability, IT operations teams no longer spend their day firefighting; they are able to focus on innovation and activities that deliver greater business value such as deployment of new infrastructure and applications.



**Figure 3.** HPE GreenLake Hybrid Observability Automation Workflow





## Simplify compliance and governance

Today's multicloud and hybrid cloud provide tremendous flexibility, dynamic infrastructure, and potentially infinite data capacity. As a result, it's become critical for IT operations teams to mitigate risk, safeguard sensitive data, and comply with evolving regulatory requirements. Hybrid observability provides a flexible policy-based approach to help ensure networks and server infrastructure comply with approved policy baselines.

HPE GreenLake Flex Solutions with hybrid observability was engineered to protect your data, infrastructure, and applications spanning from the edge to the cloud. Hybrid observability is designed to monitor activities, detect, alert, and respond to abnormal behaviors.

Hybrid observability is built to simplify governance and compliance through enforcing role-based access controls through:

- Policy-based and prescribed monitoring templates across your hybrid cloud
- Automatically detect server operating systems with known security vulnerabilities and automatically deploy patches to remediate
- Schedule and automate OS upgrades of physical, virtual, and containerized servers
- Automatically back up network configuration, and rollback network changes that could result in network instability or outages
- Performing screen recordings of remote access sessions, along with comprehensive logs to provide complete audit trails

HPE GreenLake Flex Solutions with hybrid observability allows IT operations teams to focus on innovation knowing that IT compliance and infrastructure governance are taken care of.

Hybrid observability in HPE GreenLake Flex Solutions helps IT operations teams to optimize uptime and infrastructure operating costs while streamlining process efficiencies. The AI-powered hybrid observability command center delivers the visibility and control IT operations teams need to centrally monitor and manage their HPE GreenLake Flex Solutions and hybrid cloud resources. Hewlett Packard Enterprise is empowering IT operations teams to be more proactive, streamline service delivery, and deliver innovation while helping assure compliance and streamlining service delivery.

## Learn more at

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