



Hybrid observability in HPE GreenLake Flex Solutions

The digitization of today's business is accelerating the growth of distributed hybrid IT 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 that 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 Solution.



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 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, eliminating the resource islands in the cloud or the data center.

Hybrid observability breaks down the resource islands through:

- Multi-vendor 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
- Asset lifecycle management to discovery, track and manage physical, virtual and application resources from the edge to the public cloud

With more than 3,000 pre-built integrations with infrastructure devices, cloud services and 3rd-party applications, hybrid observability provides you the centralized monitoring and visibility needed to maximize utilization and minimize operating costs.

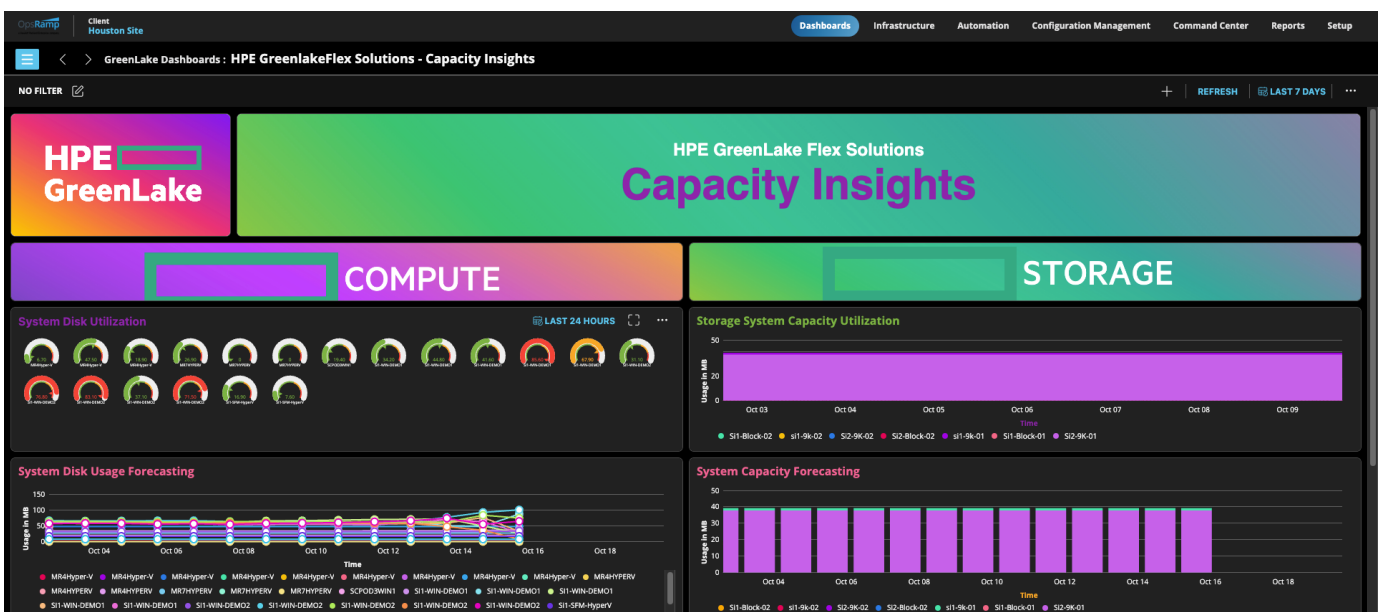


Figure 1. HPE GreenLake Hybrid Observability Capacity Insights Dashboard



Assure Uptime and Performance

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

With hybrid observability IT 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.

Hybrid observability in HPE GreenLake Flex Solutions easily integrates with your existing multi-vendor 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. AI-powered event and incident management, with out of the box dashboards, backed by intelligent automation and remediation that includes:

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

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

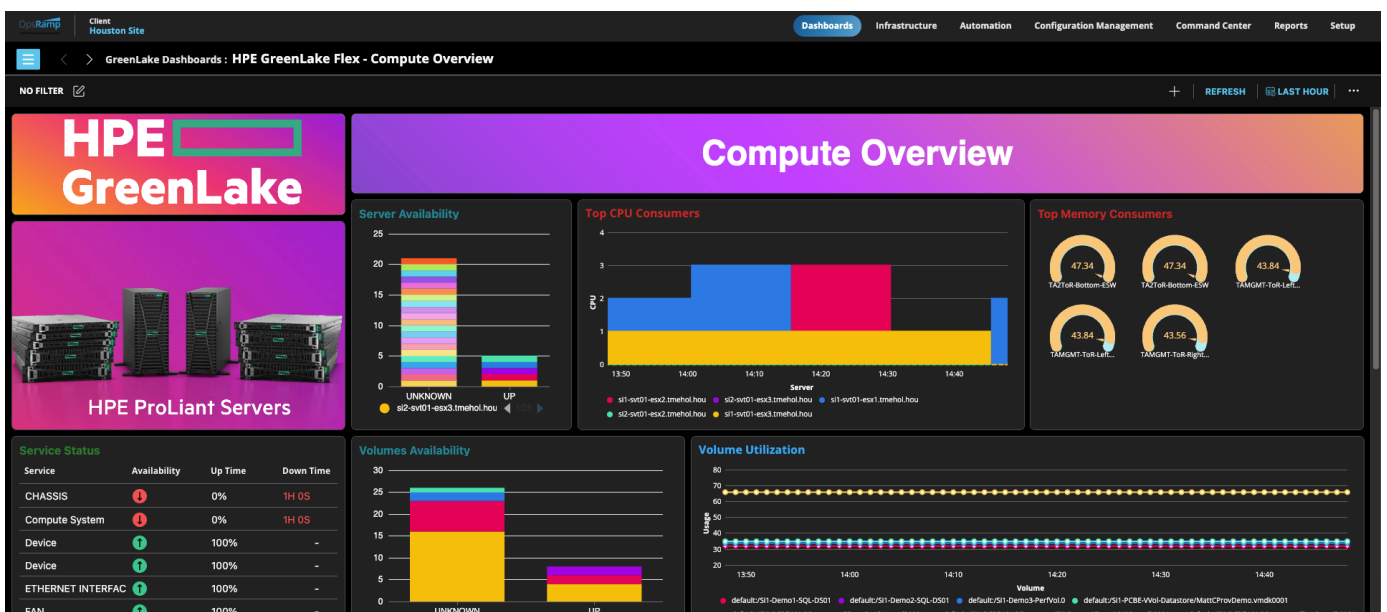


Figure 2. HPE GreenLake Hybrid Observability Uptime and Performance Dashboard



Streamline IT Operations and Service Delivery

Today's operations teams are being asked to deliver continuously higher service levels. 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 integrate existing element managers and point tools to 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. The hybrid observability command center makes it easy to automate common activities like 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
- Eliminating >95% of 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 bi-directional 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 like deployment of new infrastructure and applications.

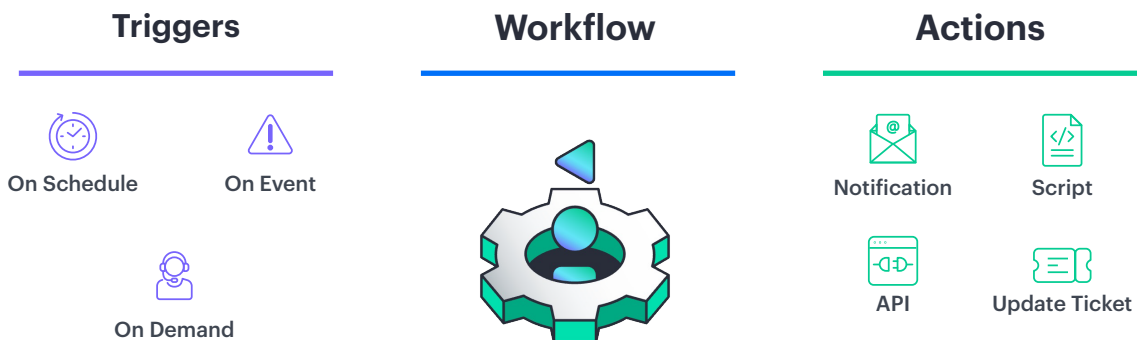


Figure 3. Streamlined visibility and control of hybrid infrastructure



Simplify Compliance and Governance

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

HPE GreenLake Flex Solutions with hybrid observability were 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 backup network configuration, and roll back 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 is 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 and hybrid cloud resources. Hybrid observability is an essential part of the complete GreenLake Flex solutions experience, which will be activated during the GreenLake installation and customer onboarding.

Learn more at

[Hybrid Observability in HPE GreenLake Flex Solutions](#)

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