



YOUR INDEPENDENT HPE SOFTWARE COMMUNITY



Become a Cloud Master with the HPE Helion Cloud Suite
August 23, 2016

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**Hewlett Packard
Enterprise**



Hosted By



Jim Copio
Manager

Whitlock Infrastructure Solutions
Carolinas Chapter Leader
BSM SIG Leader



Today's Speakers



Keri Sprinkle
Sr. Product Marketing Manager
Helion Cloud Suite
Hewlett Packard Enterprise



Kiran Makarla
Technical Marketing Manager
Hewlett Packard Enterprise



Housekeeping

- This “LIVE” session is being recorded
Recordings are available to all Vivit members
- Session Q&A:
Please type questions in the Questions Pane



Webinar Control Panel

Toggle View Window between Full screen/window mode.

Questions



The screenshot shows a window titled "File View Help" with standard window controls. It contains two main sections: "Audio" and "Questions/Chat".

- Audio Section:** Includes radio buttons for "Telephone" and "Mic & Speakers (test)". A "MUTED" indicator with a microphone icon and a volume slider set to zero is visible.
- Questions/Chat Section:** Features a chat window with a scroll bar. It contains two messages: "Q: Is it compatible with all web browsers?" followed by "A: Yes." and "Q: How much time is required for the upgrade?". Below the chat is a text input field with the placeholder "Type your questions here." and a "Send" button.

At the bottom of the window, the name "Susan" and "Webinar ID: 850-600-483" are displayed, along with the "GoToWebinar" logo.



HPE Helion Cloud Suite

DevOps-enabled hybrid cloud management software for service transformation

HPE Helion Cloud Suite

- Service transformation and user experience
- Cloud-native app platform
- Predictive analytics
- DevOps-driven multi-cloud management
- Infrastructure automation and orchestration



Across any technology

Bare-metal, virtual,
containers



Private, managed
and public clouds



Traditional and
modern apps



Hybrid cloud management software and continuous delivery for traditional and cloud-native applications

Designed for organizations that want to take advantage of:

any cloud, any environment and any technology for any app

HCS benefits by functional area

Cloud Broker



Service transformation through user experience

- Service aggregation
- Service exchange with messaging and micro-services

Application Delivery



Certified cloud-native application platform

- Container based multi-cloud PaaS (based on Cloud Foundry™ technology)
- Use any technology stack to build applications

Analytics



Big-data driven, predictive, self-learning analytics

- Automatically filter to most significant messages and root cause
- For both IT AND business metrics

Cloud Management



Full stack management for all target environments

- Multi-cloud IaaS support with compliance automation
- Native container management and orchestration

Orchestration

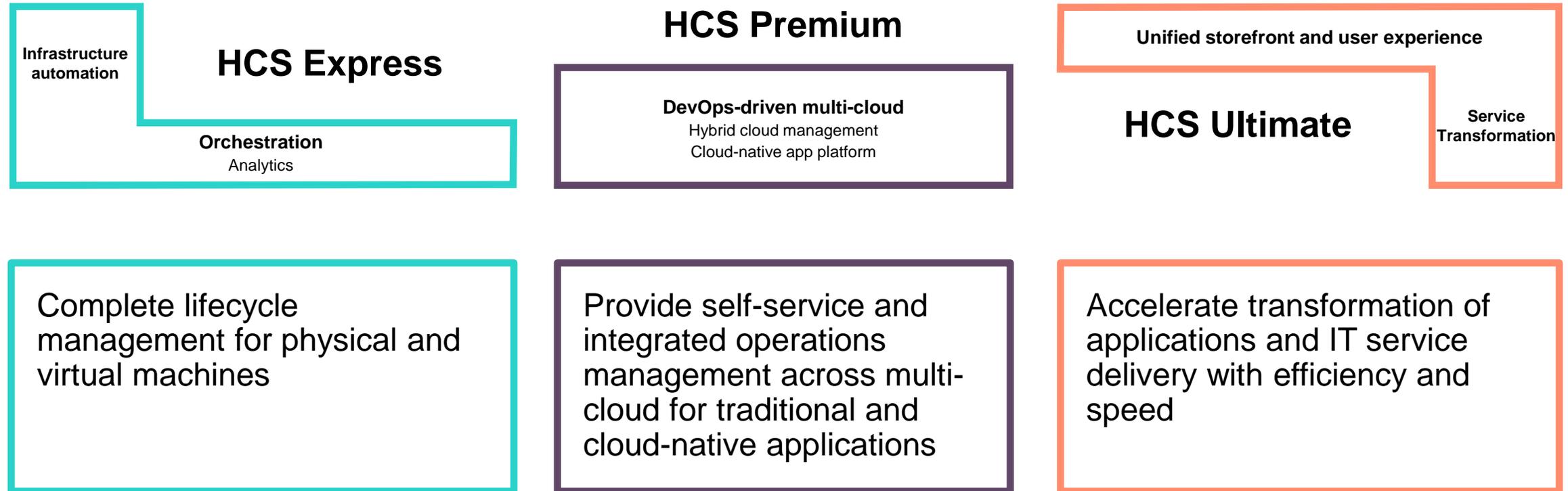


Single, comprehensive orchestration platform

- Biggest OOTB library of orchestration flows (8000+)
- Enterprise-scale execution engine

HPE Helion Cloud Suite

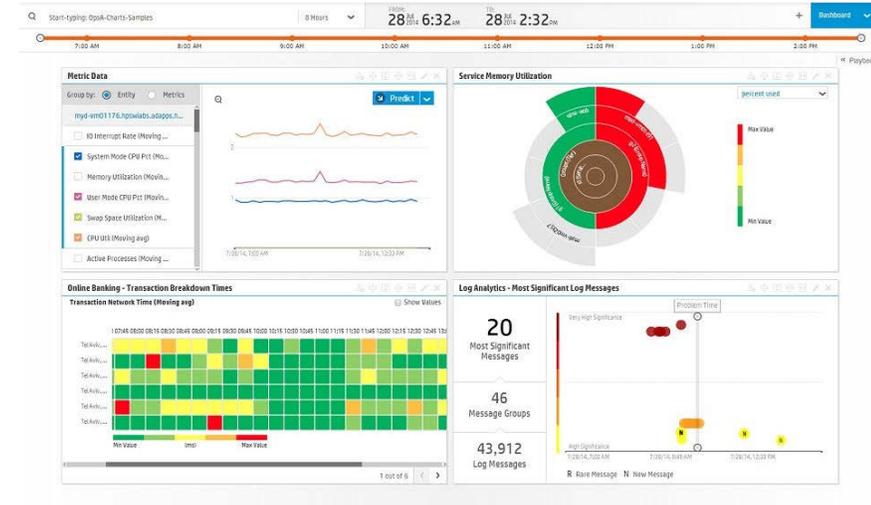
Software editions to match enterprise cloud use cases



HCS Express: infrastructure automation

Deliver secure and compliant infrastructure within minutes of request

Provision, configure, monitor and optimize



- Complete lifecycle management for physical and virtual machines
- Comprehensive orchestration platform
- IT log analytics and workload placement

HCS Premium: DevOps-driven multi-cloud

Continuous delivery and operations for any application in any environment

Application Delivery

Analytics

Cloud Management

Orchestration



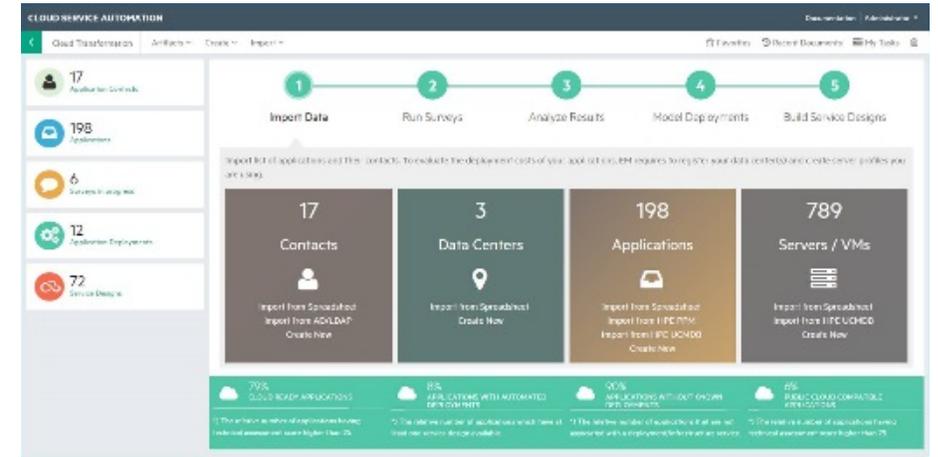
Adds:

Cloud-native app platform
Continuous app release

Business analytics

Hybrid cloud management
OpenStack
Discovery

Plus strengthens core elements



Multi-cloud management plus continuous delivery, deployment, operations and compliance

- Any environment
- Any cloud
- Any technology
- For any app

HCS Ultimate: service transformation

Transform applications from a business service view to enable cloud moves

Adds:

Cloud Broker



Cloud service broker

Application Delivery



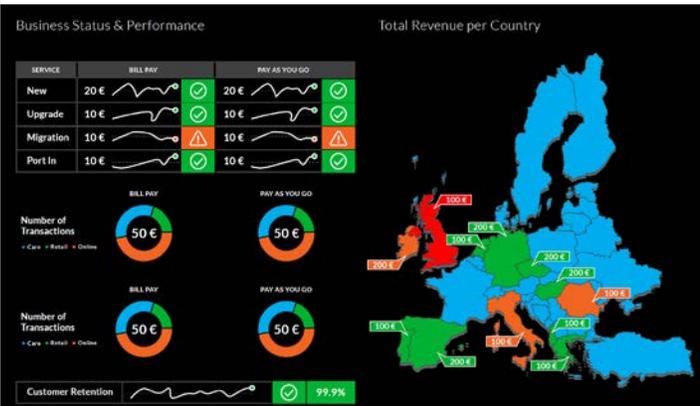
Analytics



Cloud Management



Orchestration



Plus maximizes all component capabilities

- Integrated and simplified user experience across multiple suppliers
- Catalog aggregation
- Micro-service based brokering
- Transform services and application
- Business value dashboards
- Automated planning and decision analysis
- Service design integrations

HCS key functional areas

Cloud Broker



Service transformation through user experience

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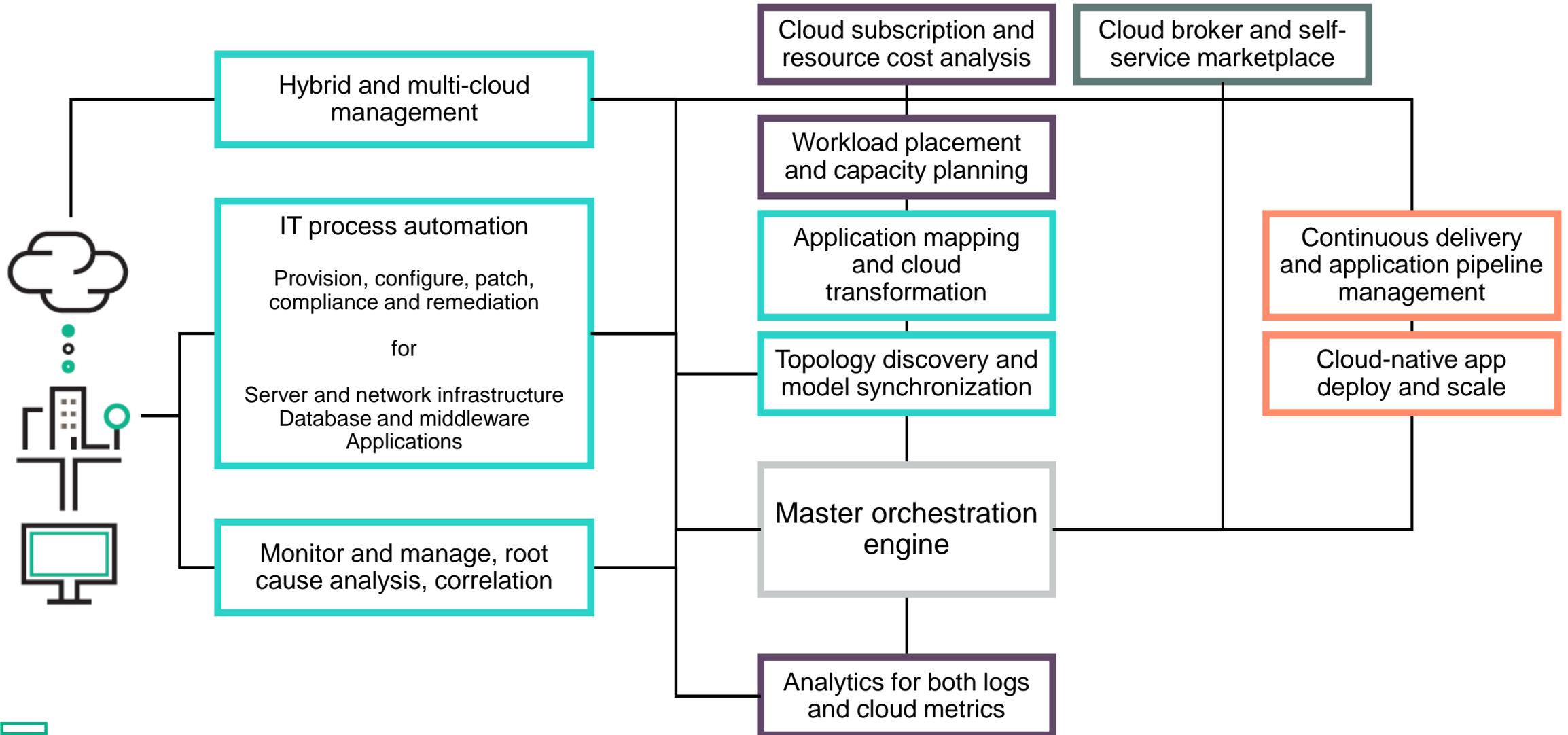
Orchestration

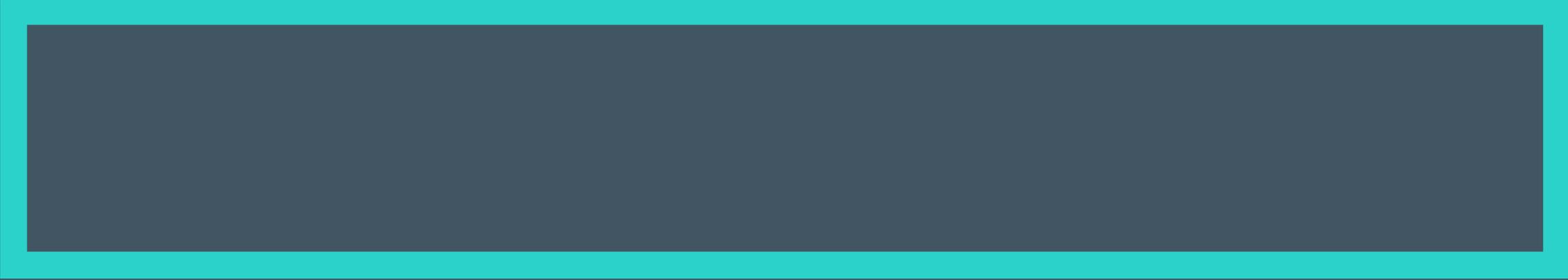


Single, comprehensive orchestration platform

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- Enterprise-scale execution engine

Helion Cloud Suite logical view





Hybrid Cloud and Container Management

Self Service Portal



Intuitive self-
service portal

Powerful service
design

Choice of cloud
providers

Single IT control
point

- World-class experience to consume infrastructure, platforms and applications – with a click of a button
- Browse and navigate multi-tenant capable customizable self service portal
- Consumer has the ability to order, review, modify and upgrade subscriptions

The screenshot displays the 'Administration' section of the Self Service Portal. It features a navigation bar with four icons: 'Manage User Subscriptions', 'Catalog Management', 'Offering Management', and 'Showback Report'. Below this, a user profile for 'developer1' is shown, with the title 'Managing user subscriptions' and the subtitle 'You are now managing another user's subscriptions.' The main content area lists a subscription for 'Wordpress with Chef Two Tier SiteScope (5.0.0)'. The subscription is marked as 'Terminated Subscription'. The details include a unique ID '90CEFA7751A925FC0151AC7CA7C83070', a price of '\$ 400.00 and \$ 400.00 yearly', and 'Application Services'. A PDF document 'HP Terms of Use.pdf' (297 KB) is also listed. At the bottom, there are five action buttons: 'View Request' (green), 'View Linked Service' (blue), 'Transfer Subscription' (grey), and 'Cancel Subscription' (red).

Graphical Designer



Intuitive self-
service portal

**Powerful service
designer**

Choice of cloud
providers

Single IT control
point

- Graphical service designer to build complex service designs / blueprints with dynamic options, and ability to test and manage multiple versions.
- With 8000+ workflows, 300+ application components, services can support both cloud native and traditional workloads
- Design and port full stack multi-tier applications for rapid time to value

OpenStack Basic Compute, Storage and Network (15.12.0000)

Overview Designer Subscriber Options Test

Subscriber Options

Home Add Option Set Server and Volume Group Option Set

Server and Volume Group Option Set

Server, Volume and Network Option Set

Image

Display Name * Server and Volume Group Option Set

PetClinic Application with Load Balancer (1.50.00)

Overview Designer Subscriber Options Test

Designer

Amazon Netwo... 15.07.0000 Amazon Server 15.07.0000

Amazon Volume 15.07.0000 Apache Load B... 150.0000

<<Application S... 1 <<Database Ser... 1

Application Tier

Apache Load Balancer

PetClinic Application

PetClinic DB Conf

loadBalancer

dbDetails

installsOn

hostedOn

configuresDb

<<Server>>

<<Application Server>>

<<Database Server>>

Support for multiple cloud providers



Intuitive self-
service portal

Powerful service
design

Choice of cloud
providers

Single IT control
point

- Support for various cloud providers such as Amazon AWS, Microsoft Azure, HPE
- Built-In support for IaaS and PaaS capabilities with HPE Helion OpenStack and HPE Stackato
- Support for various CaaS platforms such as Docker UCP, Mesos, Kubernetes
- Extended resource provider support to manage servers and applications that meet security, regulatory, and operational policies.

The screenshot displays the 'CLOUD SERVICE AUTOMATION' interface. On the left, a 'Providers' list is shown, including Amazon AWS, Chef, F5 BIG-IP LTM Load Balancer, HPE CloudSystem 8.x, HPE Database and Middleware Automation, HPE Helion Development Platform, HPE Insight Control server provisioning, HPE Matrix Operating Environment, HPE Network Automation, HPE OneView, HPE Server Automation, HPE SiteScope, HPE UCMDB, HPE Virtualization Performance Viewer, Microsoft SCVMM, OpenStack, Puppet, and VMware vCenter. On the right, the 'All Providers' section is active, showing a list of components such as HDP Application, HDP Node Chat Application, HDP Service, HP ProLiant Server, HPE ICsp OS Build Plan, HPE OneView Managed Server, HPHelionOpenStackNodeType, IPAddressType, MySQL Database, and Network Segment.

Single IT Control Point



Intuitive self-service portal

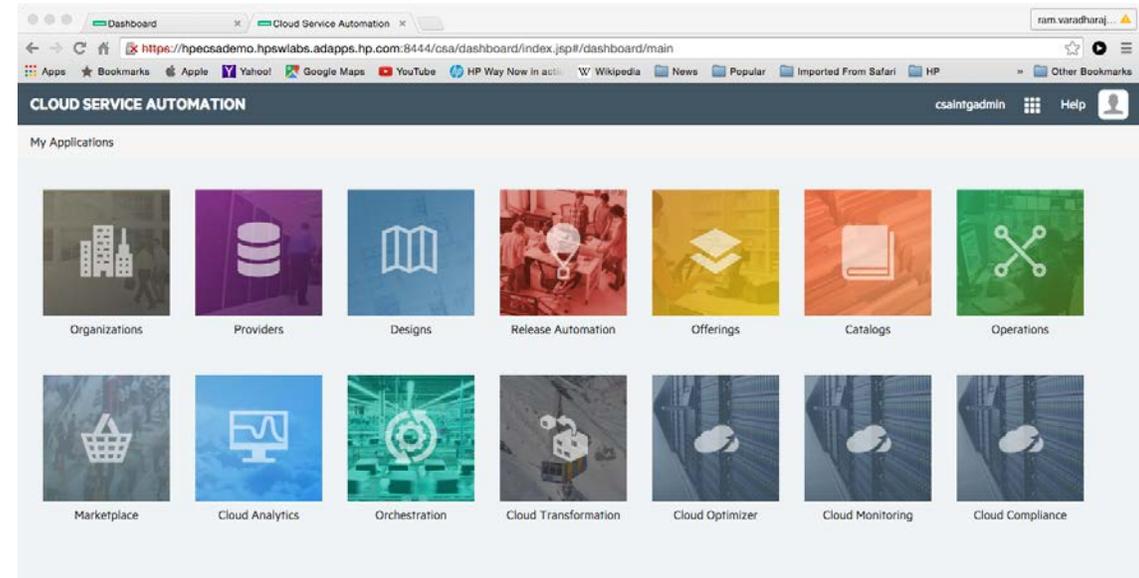
Powerful service design

Choice of cloud providers

Single IT control point

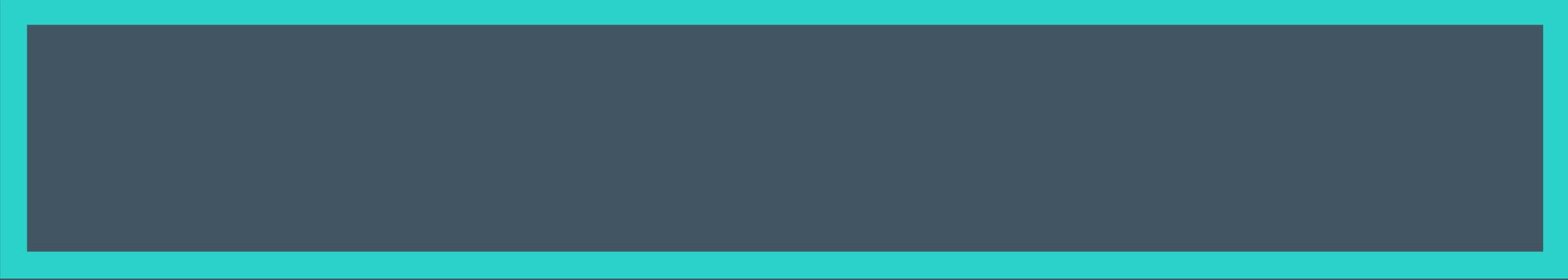
- Delegate catalog management as well as service offering creation to tenants including LOB administrator
- Offer the same agility and costs to LOB as external cloud
- Minimize complexity and costs when bridging existing workloads to cloud native workloads

Administration



Hybrid Cloud and Container Management

Demo video: <https://www.youtube.com/watch?v=BNc4tpRo0o0>



Develop, Deploy and Scale Cloud Native applications

HPE Helion Stackato

Cloud native application platform

Simple



12-factor, CF workflow,
CI/CD as a service,
easy to deploy and
manage

Open



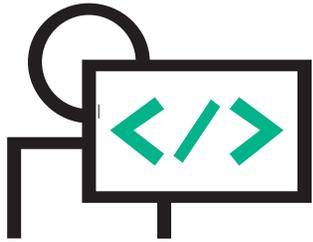
Enterprise-grade
integrated platform based
on CF, Docker,
OpenStack

Comprehensive



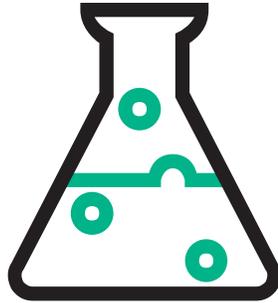
Polyglot runtime which
supports all major frameworks
(Java, .NET, OSS); enables
hybrid - multi-cloud (public,
private, hybrid), multi-infra
(OS, VMW, AWS, Azure),
multi-stack (CF, OCI,
Kubernetes, Mesos)

Application deployment with HPE Helion Stackato



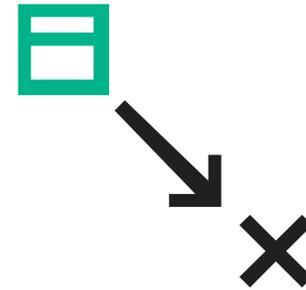
Development

Self-service so no spending time on system building & plumbing



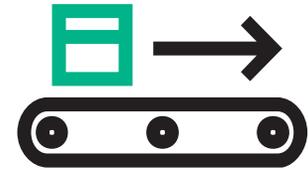
Testing

Automated provisioning and configuration without manual labor



Staging

Mirrored environments throughout dev cycle



Production

Apps that work in dev work in production. It's that simple.

Beyond Cloud Foundry

HPE Helion Stackato have an administrative user interface – easy to deploy & manage apps

CF is command line only

HPE Helion Stackato leverages Docker container technology to deploy apps

Additional application runtimes and services

Native .NET support, PHP, Python, Perl

Technical support built into pricing model

World-class, global technical support available to help with deployment & configuration.

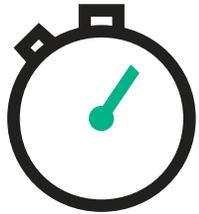
Easy setup & install

100% BOSH free, so setting up & keep running HPE Helion Stackato is easy and fast

HPE Helion Stackato are based on the trunk version of Cloud Foundry

HPE is committed to driving enterprise features back to the community ([see our recent .NET support announcement](#)).

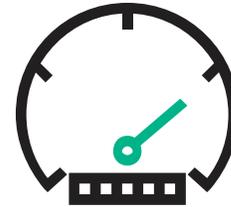
PaaS benefits



Faster Time to Market

Get apps (not just VMs) deployed within minutes, not weeks.

30x improvement in apps delivered.



Scaling at Peak Performance

Automatic scaling ensures optimal performance & end-user experience. No manual work, no staff overtime.



Productivity and Innovation

More automation. More innovation. Higher satisfaction for developers.

40x faster application prototyping.



Flexibility

Freedom and flexibility for Developers. Within control of IT.



Cost savings

Improved server utilization (more applications per machine).

90% cost reduction with lower sys admin/application ratio.



Greater Security

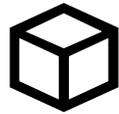
Hardened and tested for enterprise use. Control over sensitive data.

Develop, Deploy and Scale Cloud-native Applications

Demo video: <https://www.youtube.com/watch?v=JG3a2uvx8B4>

'No Limits Cloud' with HPE Helion Cloud Suite

You are able to take advantage of *all* of the following...



Containers



Cloud-native applications



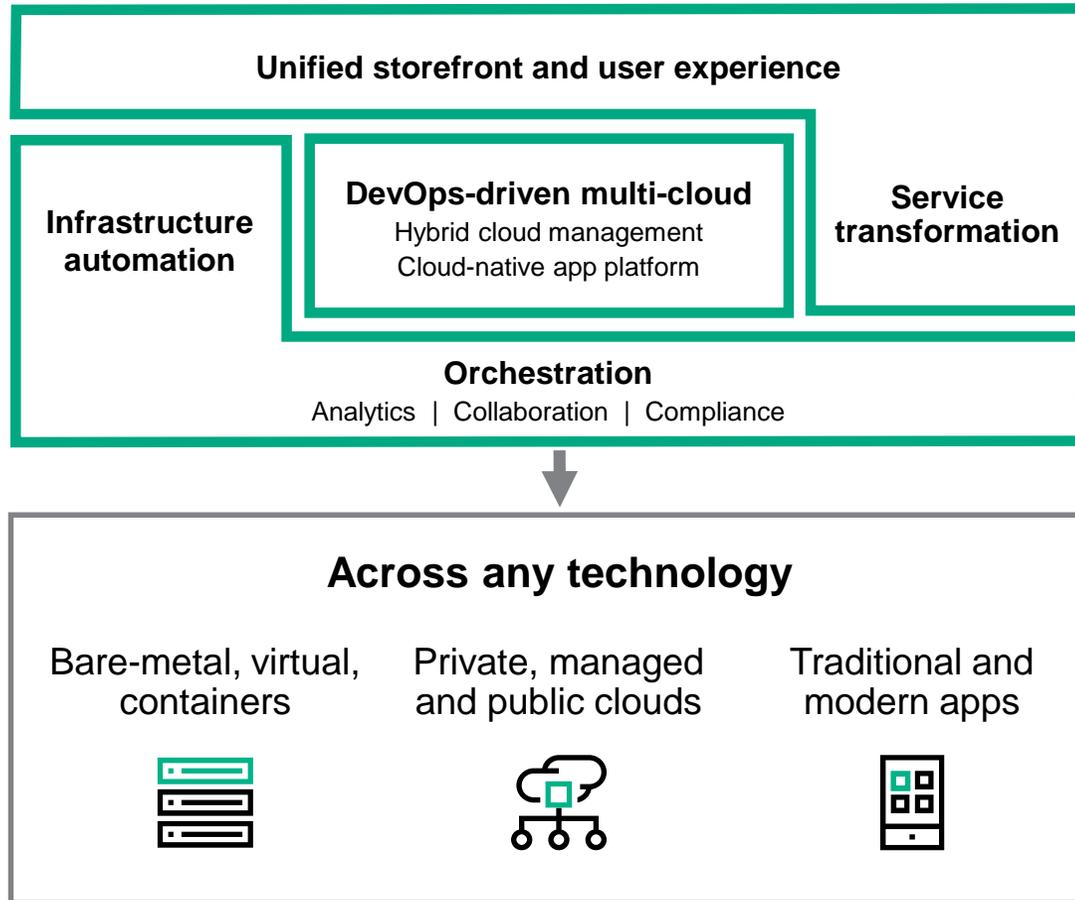
**Amazon
AWS**



**Microsoft
Azure**

HPE Helion Cloud Suite

DevOps enabled hybrid cloud management software for the digital enterprise



- Unique full-stack, multi-cloud management with IaaS and PaaS
- Continuous delivery and ops for traditional and cloud-native apps
- Unified HPE cloud offering
- Simplified packaging and ordering

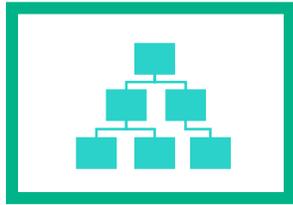
- Accelerate delivery of business services
- Support your dev pipeline/software factory
- Optimize your right mix



Drive business performance with Analytics

Analyze to predict and solve

Connect



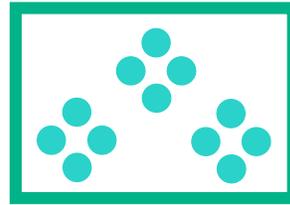
Use service topologies across logical and physical layers for **analysis**

Learn



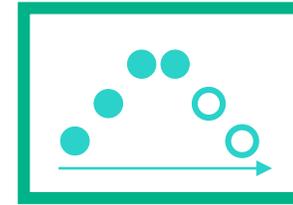
Learn **normal behaviors and patterns** (e.g. seasonally adjusted baselines)

Correlate



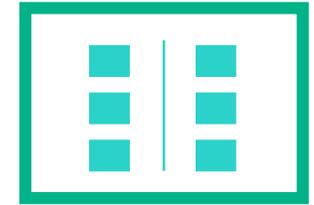
Correlate events, logs and metrics for **automated root-cause analysis**

Predict



Predict issues before services and customers are impacted

Guide



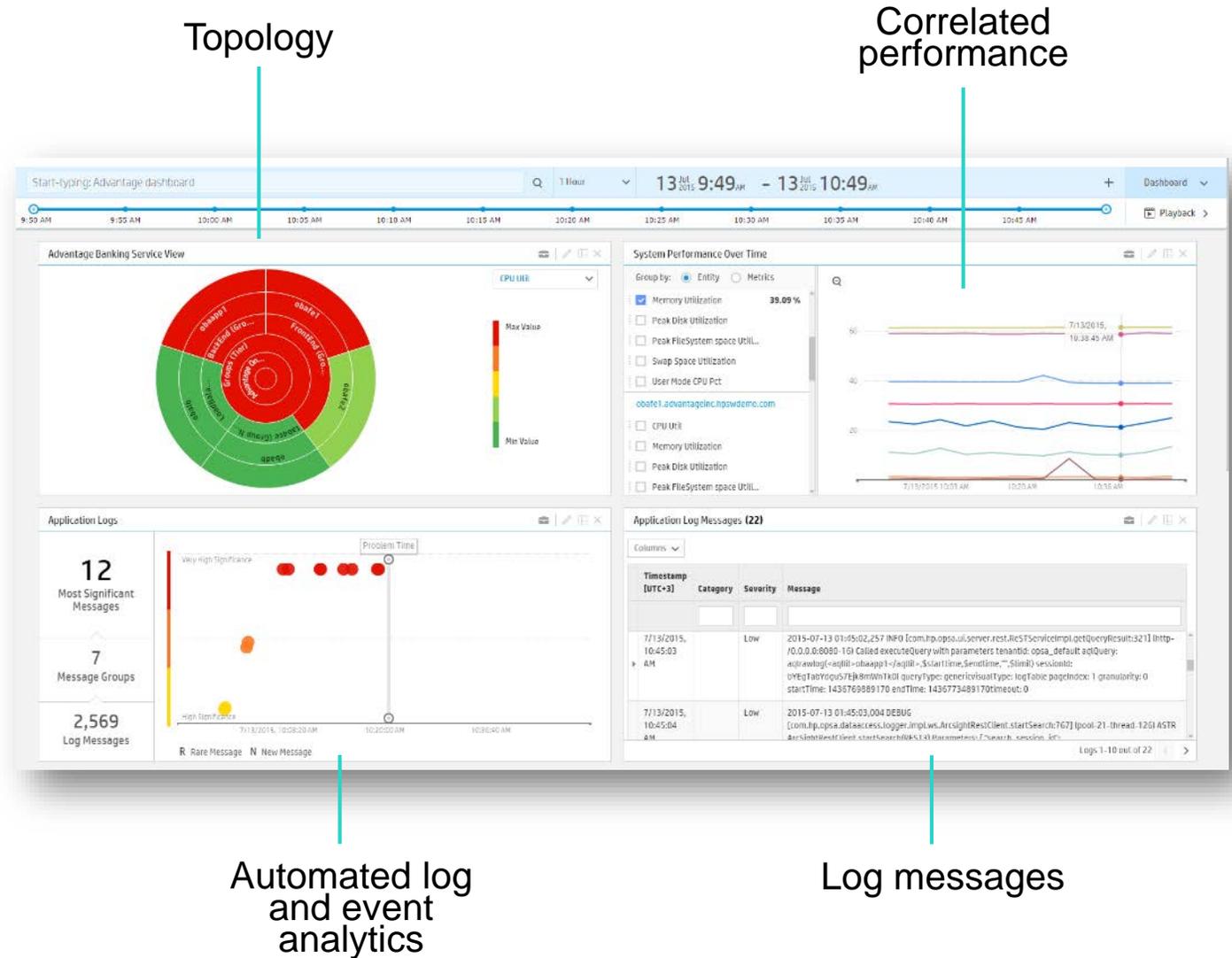
Rich visualizations and smart workflows guide operators for **efficient troubleshooting**

Operations Analytics predicts and solves:

- At massive scale
- Using machine learning analytics
- Across business and machine data

Solve critical problems with HPE Operations Analytics

- Gain insights from **all data sources**, including end-user, applications and infrastructure
- See all data **at any point in time** to troubleshoot quickly
- Pinpoint root cause in minutes with **automated log and event analytics** and metric pairing
- Brought together with an **intuitive dashboard**



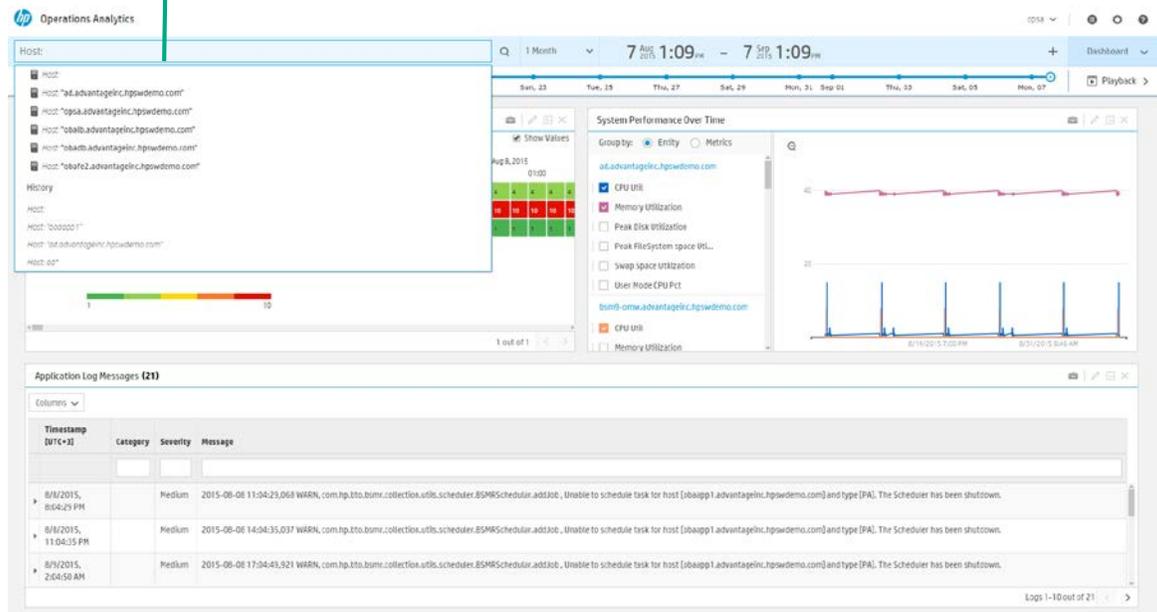
IT search

Search for metrics, events, topology, and logs

User specified IT search context

Search results:

- Metrics
- Events
- Topology
- Logs



Customer problem

IT Ops data is so large and varied that Operations teams have difficulty searching through it to find information they need

HPE solution

Search language and other search tools to provide search across metrics, events, topology and log data

HPE differentiation

Powerful and simple analytics query language to simplify search across all IT Ops Data (metrics, events, topology, and logs)

Guided troubleshooting

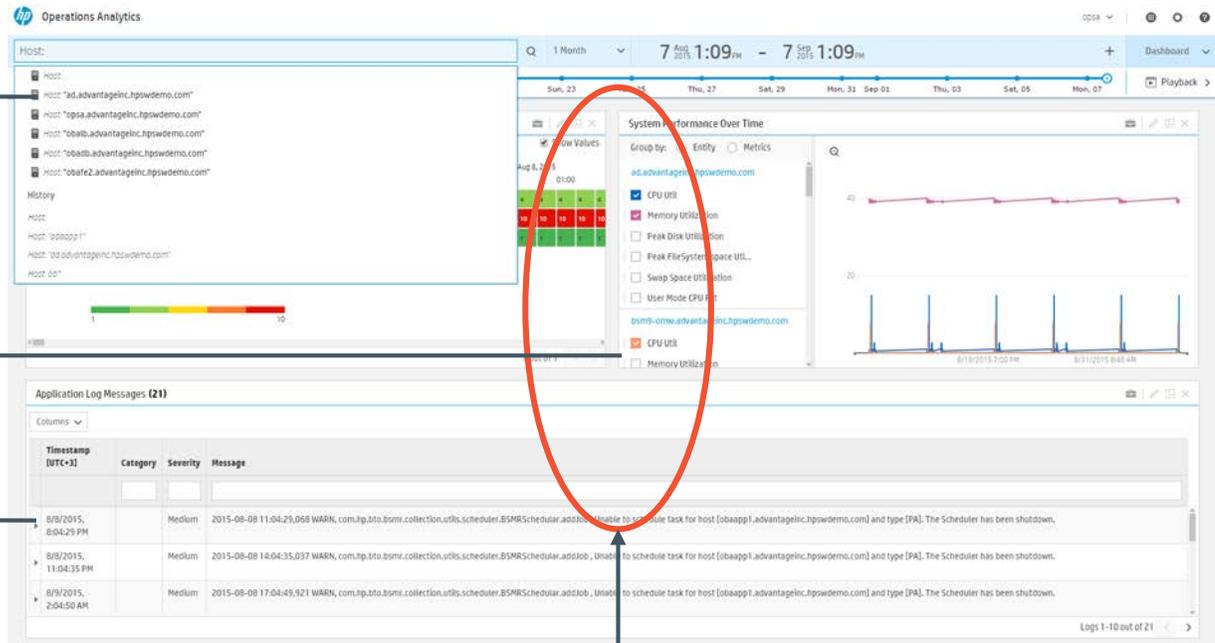
Guiding user to relevant data for effective troubleshooting of complex problems

User entered problem context

Analyzed and context pertinent metrics

Context pertinent logs

Time context



Customer problem

Operator has an unknown problem and doesn't know where to start, what exactly to search.

HPE solution

Guided troubleshooting experience that provides the operator with pertinent metrics, event, topology, and log data based on context.

HPE differentiation

Context driven guided search, tag-based, time-machine interactive analytics of all your data, dynamic dashboards that populate automatically based on problem context.

Visual analytics

Visual insights to understand data patterns and relationships

Visualizations that allow you to “see” patterns in your data

Dynamic dashboard to build what you want to see

Save context for reuse and share with others

Customer problem

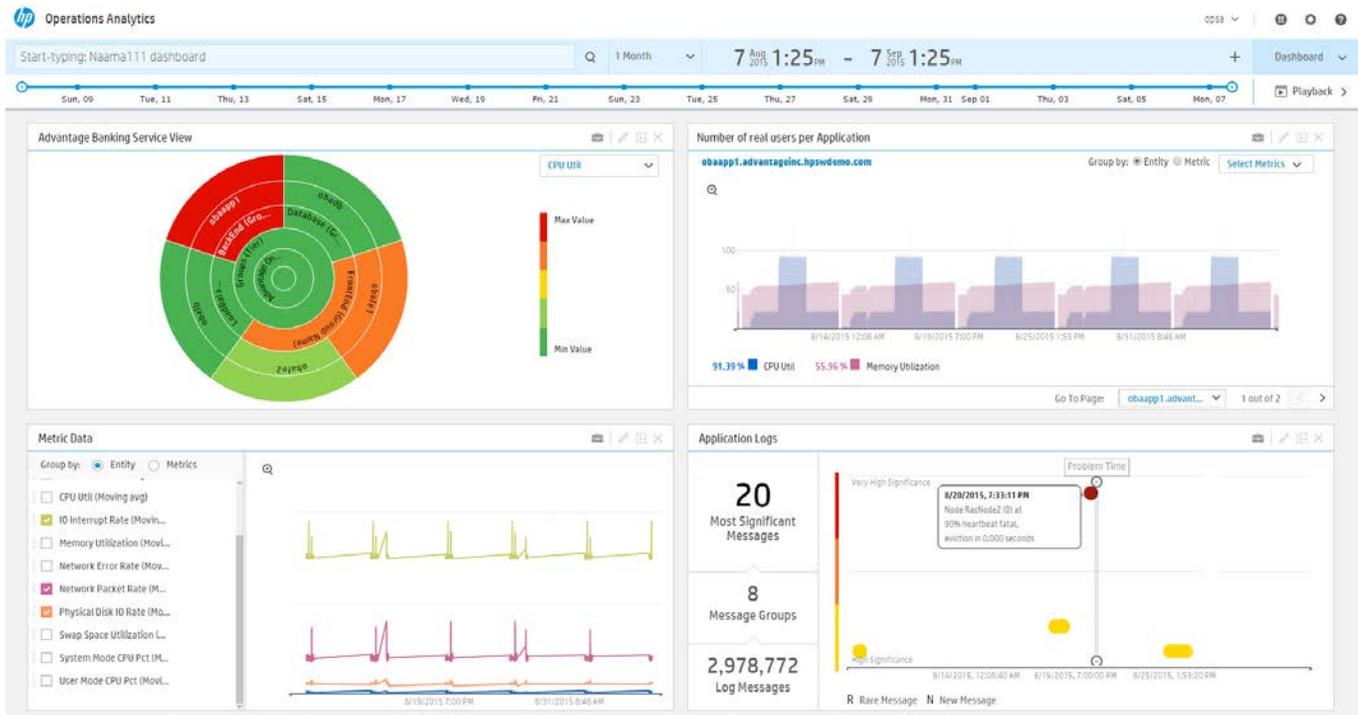
Data volumes and complexity mean actionable insight is hard to find.

HPE solution

Visual analytics that leverage human Visual Perception for deriving patterns and trends from images, and providing actionable insight.

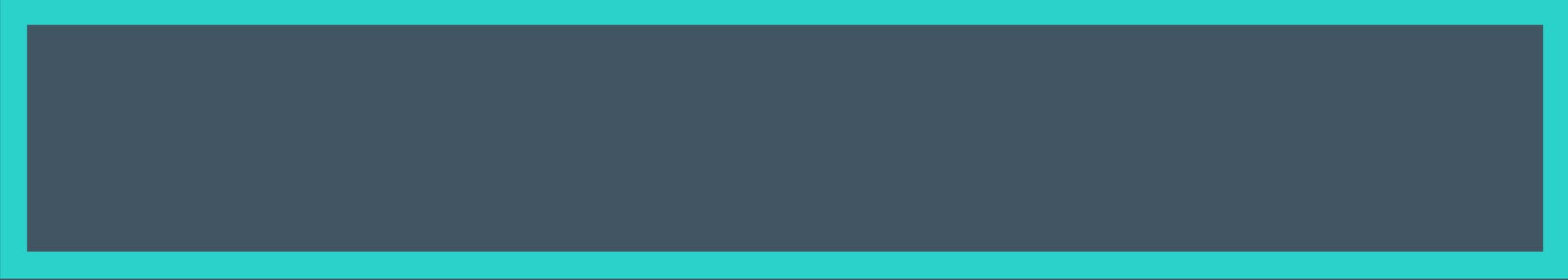
HPE differentiation

Compelling visual presentation of IT Ops Big Data to rapidly create actionable insight. Dynamic on demand dashboards. Savable and shareable contexts.



Drive Business Performance with Analytics

Demo video: <https://www.youtube.com/watch?v=in8iMgrSSGc>



Q & A

hpe.com/software/hybridcloud

Thank you

- Complete the short survey and opt-in for more information from Hewlett Packard Enterprise.

www.hpe.com

www.vivit-worldwide.org

