



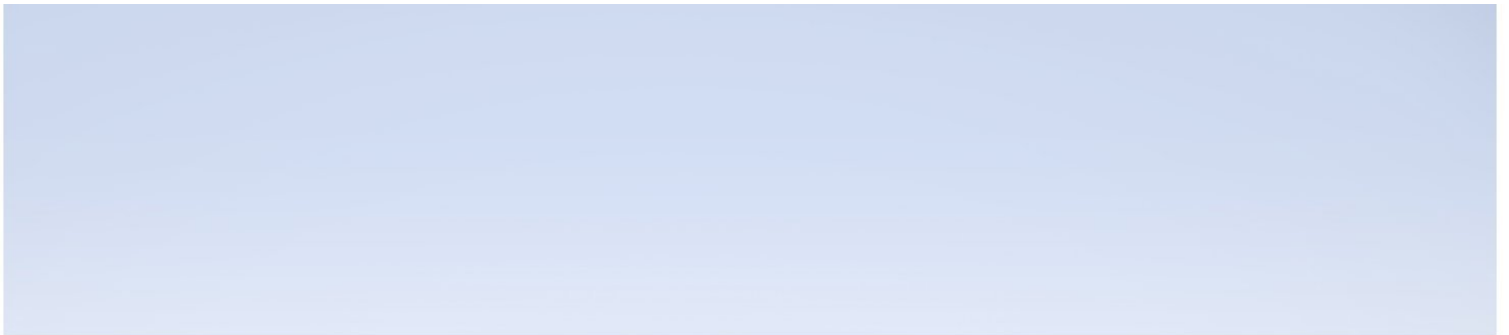
Hewlett Packard
Enterprise

Application Performance Management

Version 9.4.0, Released August 2017

APM What's New

Published August 2017



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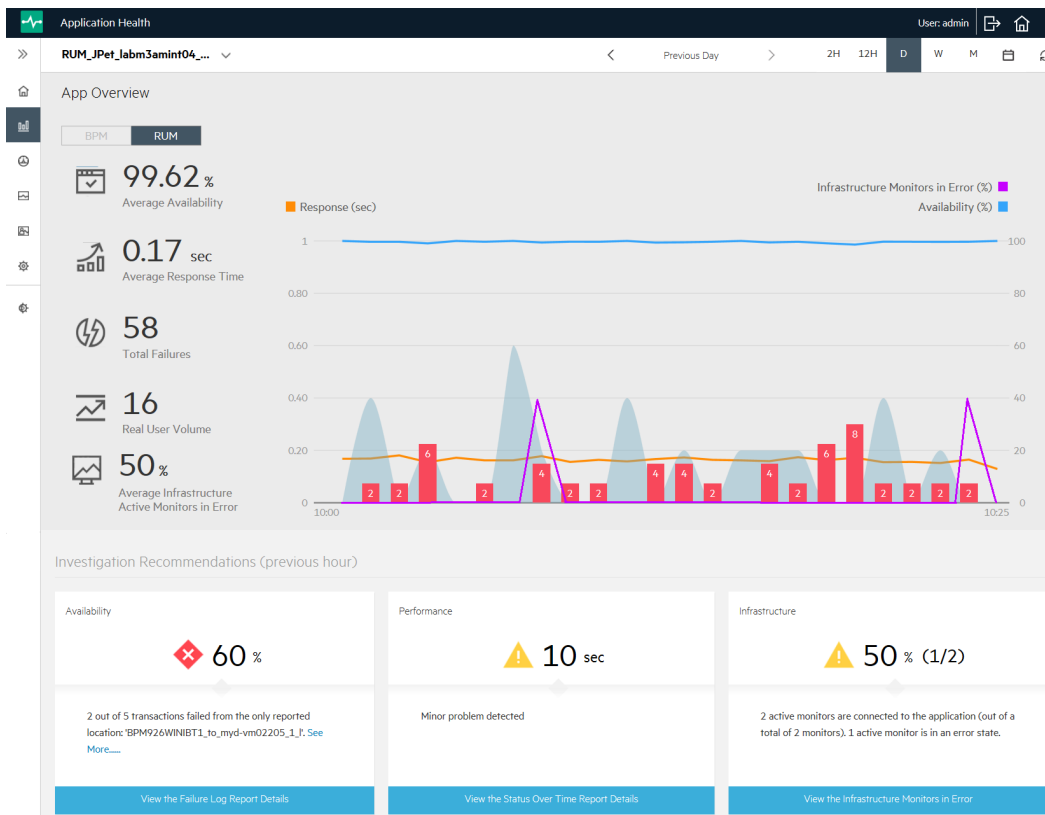
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What's New in APM 9.40

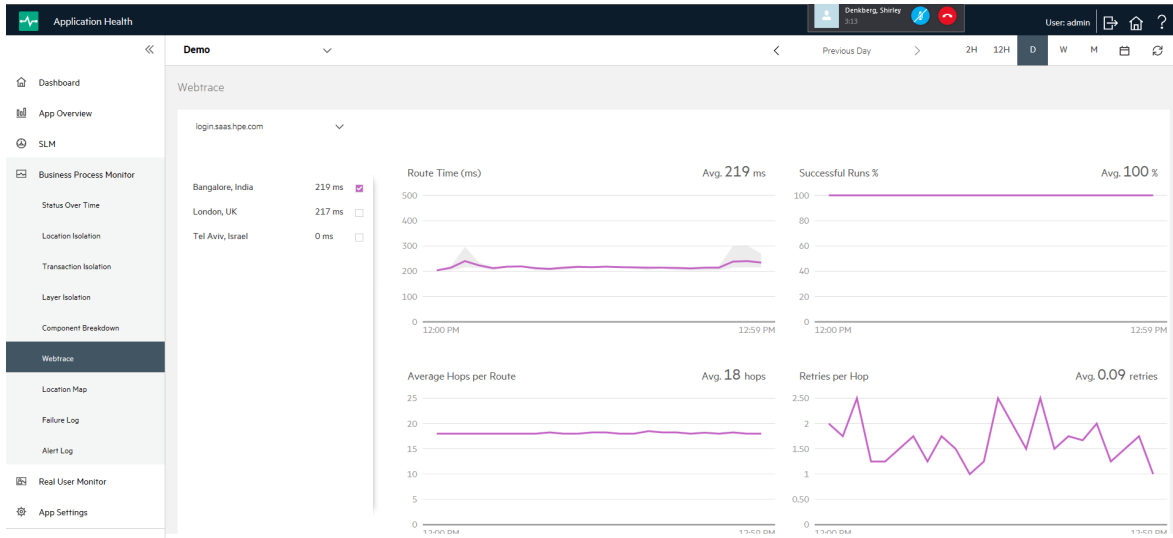
This document provides information about new features and enhancements to HPE Application Performance Management (APM) 9.40.

Application Health

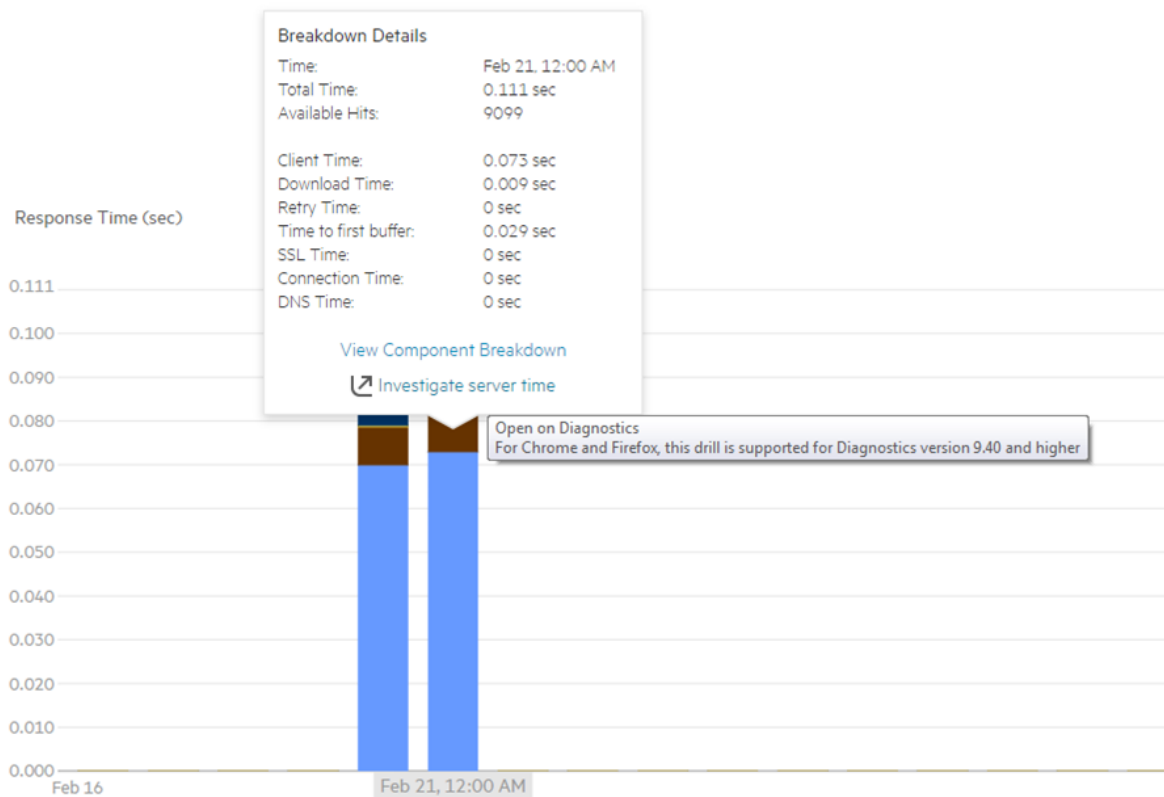
- SiteScope KPI in Application Health Overview Report
 - SiteScope KPI appears in the graph data - displays the percentage of monitors in error for each point over the selected period of time
 - The tooltip displays the total amount of monitors in error and the amount of active monitors over the selected period of time
 - The infrastructure icon in the left displays the percentage of monitors in error over the selected period of time
- See full path of monitors (with error status) for the last one hour
- Drill down to SiteScope Multiview UI to continue investigation



- Business Process Monitor Application Health Reports
 - Webtrace overtime report



- Diagnostics integration from Application Health Layer Isolation report



- Real User Monitor Application Health Reports
 - Added application drop down list to provide users with the ability to change applications in the context of a single report

- Added enhanced filtering capabilities to enable users to focus on the necessary sessions
- Enhanced App Infra with a Topology Map to enable visualization of application topology

The screenshot displays the 'Application Health' dashboard for 'Cyclos_Multi_Tier'. The top section, 'Performance & Availability by Tiers & Servers', contains a table with the following data:

Tier	Availability	Performance	Total Action ...	Slow Action H...	Download Time	Connection A...	Total Traffic	Total Requests	Total Attempts
HTTP-Web	98.81 %	100.00 %	4,437	0	0.22	99.86 %	653	4,765	710
auto-discovered-tier-General_Web	98.76 %	100.00 %	2,815	0	0.01	99.52 %	457	3,054	207

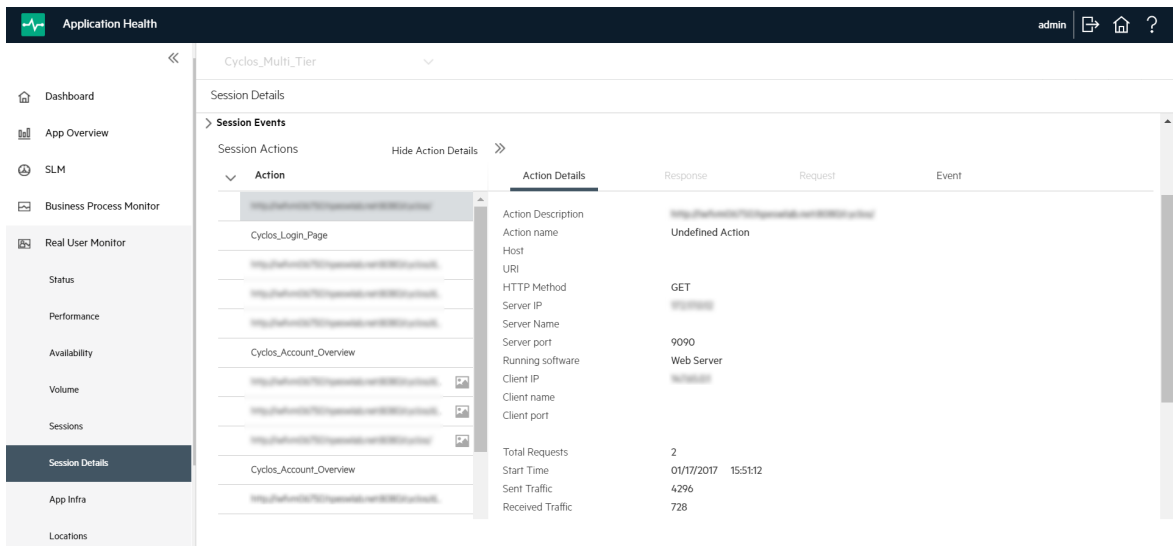
Below the table is a 'Topology Map' showing a hierarchical tree structure of application components. The root node is 'HTTP-Web', which branches into two intermediate nodes, each of which further branches into multiple leaf nodes representing servers. Some nodes in the map are marked with green checkmarks, while others have red exclamation marks, indicating their operational status.

- Added Sessions report

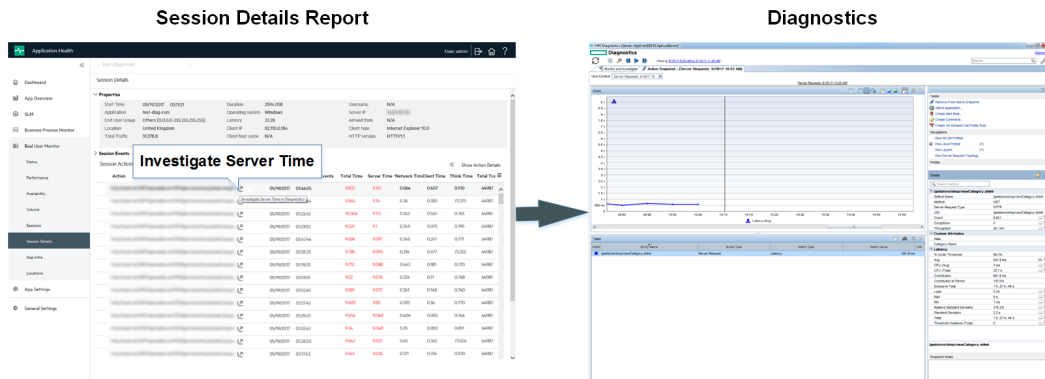
The screenshot displays the 'Application Health' dashboard for 'Cyclos_Multi_Tier' with the 'Sessions' report selected. The 'Session List' table contains the following data:

Start Time	Tier	End User Gr	Client	Username	Location	Active	Duration	Latency	Errors	Info Events	Slow Actions	Actions
01/17/2017 15:51	HTTP-Web	Others [00...	...	j2ee07	Rio De Jane...	yes	00:00:00.1	212.76	0	0	0	4
01/17/2017 15:51	HTTP-Web	Others [00...	...	admin	Boston	yes	00:00:00.1	208.41	0	0	0	6
01/17/2017 15:51	HTTP-Web	Others [00...	...	j2ee02	United King...	yes	00:00:00.1	209.13	0	0	0	2
01/17/2017 15:51	HTTP-Web	Others [00...	...	j2ee05	Australia	yes	00:00:00.1	204.47	0	0	0	2
01/17/2017 15:51	HTTP-Web	Others [00...	...	admin	Boston	yes	00:00:00.1	206.23	0	0	0	11
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee05	Australia	yes	00:00:00.1	175.86	0	0	0	11
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee10	Tokyo	yes	00:00:00.1	210.13	0	0	0	2
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee08	Egypt	yes	00:00:00.1	207.79	0	0	0	7
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee04	Shanghai	yes	00:00:00.1	131.70	0	0	0	3
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee09	India	yes	00:00:00.1	208.39	0	0	0	8
01/17/2017 15:50	HTTP-Web	Others [00...	...	j2ee07	Rio De Jane...	yes	00:00:00.1	199.72	0	0	0	6
01/17/2017 15:50	HTTP-Web	Others [00...	...	user01	India	yes	00:00:00.1	205.06	0	0	0	8
							148/200		28	0	0	2606

- Added drill down to Session Details report, that includes Action List, Action Details, Request, Response, and Events. This report enables completing the isolation flow for the selected context in Application Health.



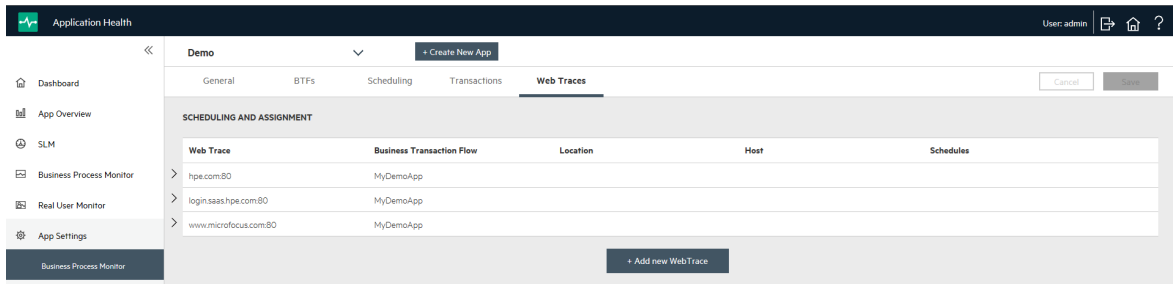
- Drill down to Diagnostics from RUM reports – Completes the isolation flow to launch Diagnostics where applicable



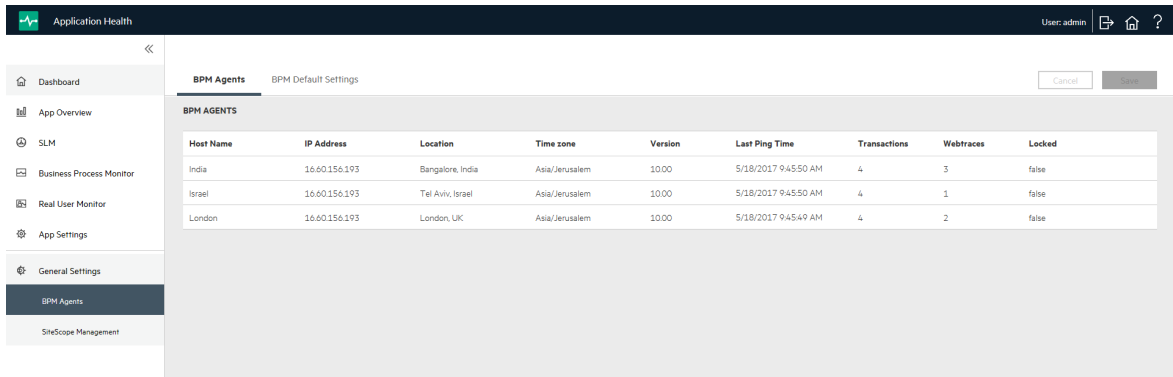
- Docker Report - Aligned to Cmdb Docker model to enable consolidated status

- Application Health Admin

- RUM / BPM application integrated support - Added ability to define applications that are configured for both RUM and BPM.
- Webtrace configurations - Configure Webtrace monitors for business applications or business transaction flows. The Webtrace monitor will record the specific route taken from the BPM Agent to the destination web server or IP address, including the specific gateway servers at each hop according to the schedule you configure.



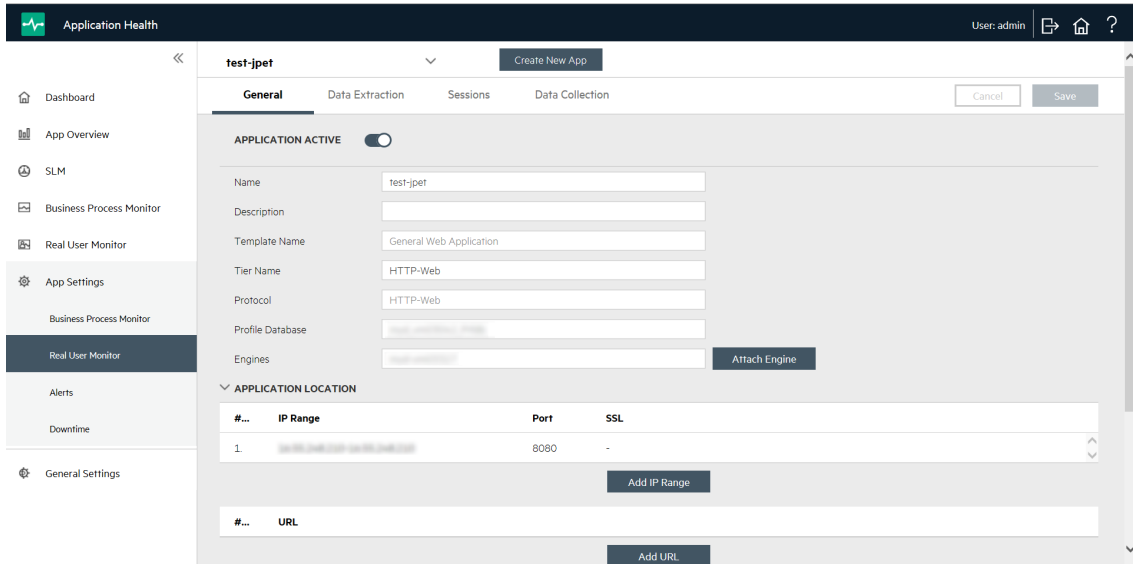
- BPM global settings - View and change the BPM Agents settings and default system settings for BPM default transaction thresholds, default transaction breakdown, and default data collector schedules.



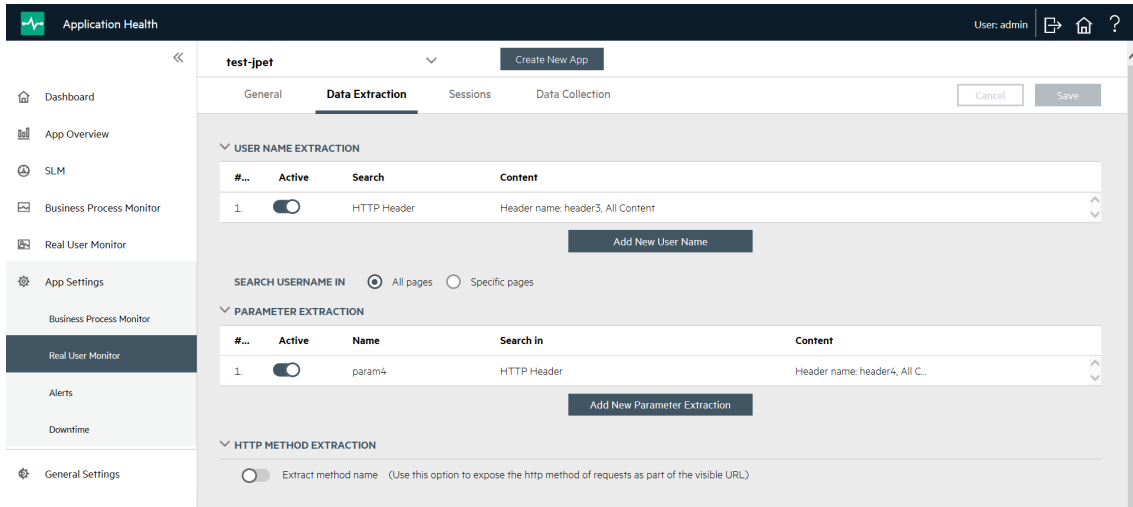
- Business Process Monitor App Settings Enhancements

- Added ability to delete an application
- Added ability to stop or start business Transaction Flows under the BTF Tab
- Download scripts is now available under the BTF Tab
- Edit URL Monitor is now available under the BTF Tab
- Added Bulk operations for Business Transaction Flow (BTF) and Data Collector tabs
- Added Alerts Quick Settings
 - View EUM alerts for a specific business application
 - Stop/Start alerts
 - Change the assigned recipients for each alert

- Real User Monitor App Settings Enhancements
 - Web Application life cycle: Added ability to create, read, update, and delete
 - Support basic configuration of RUM applications
 - General page: Added application location (URL and IPs), thresholds, attach engine, TCP settings



- Data Extraction settings – Configure user name detection and parameter extraction



- o Session settings – Configure session identification, properties, and reset

The screenshot shows the 'Sessions' configuration page for an application named 'test-jpet'. The page is divided into three main sections: 'SESSION IDENTIFICATION CRITERIA', 'SESSION RESET', and 'SESSION PROPERTIES'. Each section contains a table for defining session rules and a button to add new entries.

#...	Active	Search	Content
1.	<input checked="" type="checkbox"/>	Get/Post Parameters	Parameter: login, All Content

SESSION RESET
SESSION TIMEOUT (Reset the session on timeout of 20 minutes)

#...	Behavior	URL (Start or end a session according to the following URL...
1.	Start a session	...
2.	End a session	...

#...	Active	Name	Search	Content
------	--------	------	--------	---------

- o Data Collection settings – Configure data collection, sensitive data, and snapshot properties

The screenshot shows the 'Data Collection' configuration page for the 'test-jpet' application. It includes several sections for configuring data capture and reporting.

GENERAL

- Enable clickstream
- Enable page component breakdown
- Enable frame unification
- Enable automatic page classification
- Exclude BPM data

SENSITIVE DATA - HTTP PARAMETERS

Delimiter: ;

- Report all parameters
- Report all parameters except the following: password,passwd
- Report only the following parameters: undefined

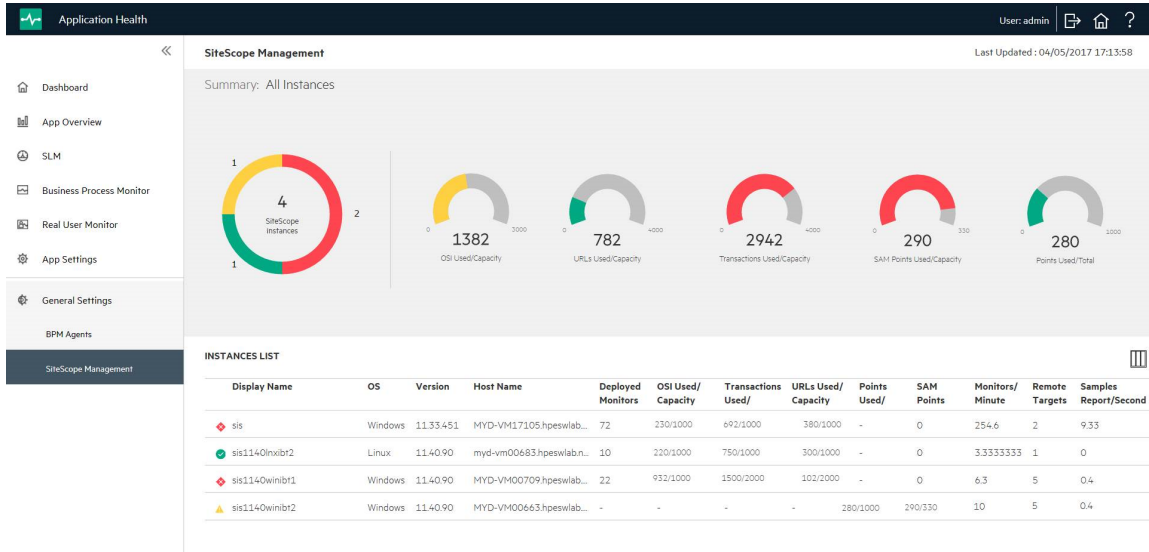
SENSITIVE DATA SETTINGS

SNAPSHOT COLLECTION

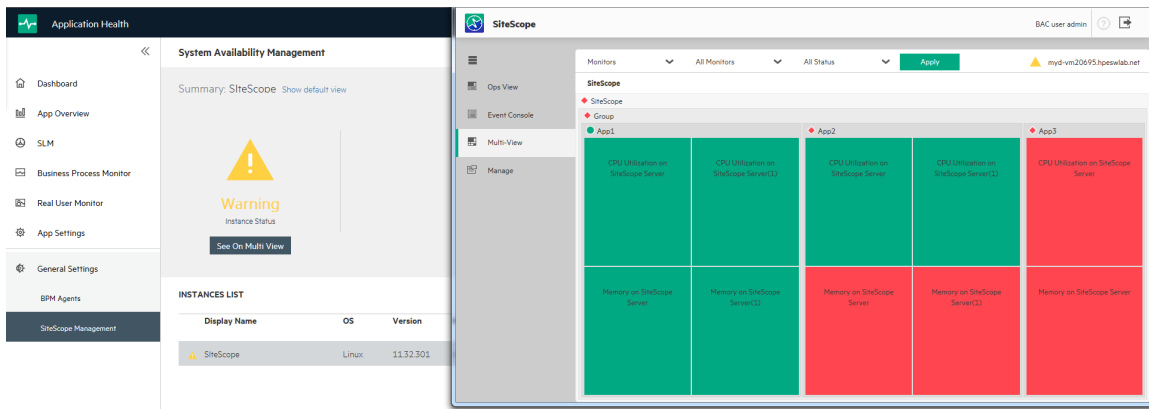
STATISTICS COLLECTION

HOST ALIASES

- Application Health SAM Admin
 - View all SiteScope instances integrated to APM
 - See general information for each instance (license consumption, health status, version, deployed monitors etc.)



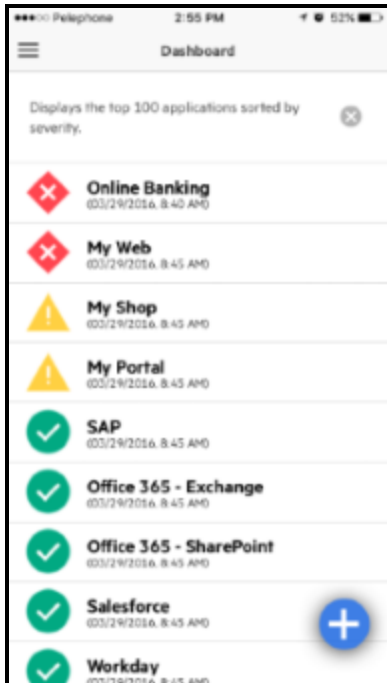
- Launch SiteScope Multiview UI for each SiteScope instance



- Menus and UI improvements – Alignment to AppPulse Active look and feel and usability improvements
- APM data in BVD (Business Value Dashboard) – APM 9.40 supports performance metrics integration with OMi10.x (which wasn't available with APM 9.30). Once you integrate APM with OMi you can access APM metrics in the OMi Performance Dashboard. You can then export these Dashboards to BVD and consume APM metrics in BVD.

Mobile App

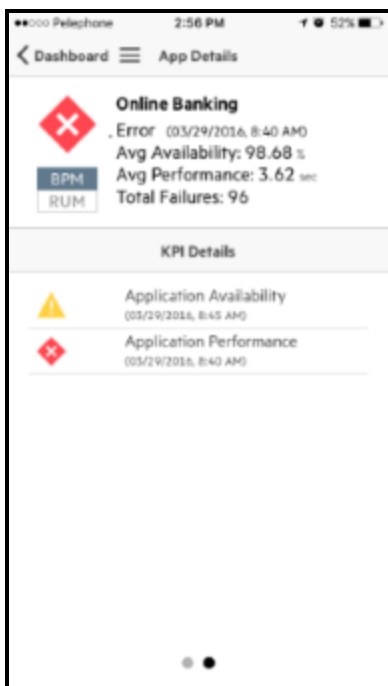
- HPE App Health mobile application for both Android and IOS – Retrieves your business applications' data from HPE's Application Performance Management and displays the status of your business applications.



- You can view the BPM and RUM average performance, average availability, total failures, and volume status/count of your business applications for a selected period of time (day, week, and month). On the same page, you can view a graph that displays the performance and availability over time.



- You can further investigate your business application status by viewing the current KPI status.



- Embedded demo mode enables you to experience the advantages of the Mobile app. To set it up:
 - a. In the APM URL field of the APM Login Configuration screen, enter **Demo**.
 - b. In the APM Username field, enter any name.
 - c. In the APM Password field, enter any password.
 - d. Tap **Text Connection** to test your connection.
 - e. Tap **Save**.

APM Platform Enhancements and Shared Services

Platform Enhancements

- Java 8 update 131 on client side
- Firefox ESR 52.x 32 bit
- Google Chrome with latest available version only for Application Health
- CMDB 10.32 with Content Pack 23
- Oracle Enterprise Linux 7.2, 7.3
- Microsoft Hyper-V Server 2012 R2
- HometQ High Availability - This mode improves and reduces data loss on distributed systems.
- Microsoft Server 2016 Standard and Datacenter Edition
- Integration with AutoPass License Usage Hub

Content

- Removal of Service Health Analyzer (SHA) - SHA is end-of-life and has been replaced with Operations Bridge Analytics (OBA). For information, see the [Operations Bridge Analytics \(OBA\) documentation](https://docs.software.hp.com/OBA/3.01/Content/Home.htm) (<https://docs.software.hp.com/OBA/3.01/Content/Home.htm>).

Security

- Upgrade internal components: Axis2 1.7.3, Tomcat 7.0.73, spring 3.2.17, Autopass 9.2.6, Apache Server 2.4.23 with updated openssl version 1.0.2.

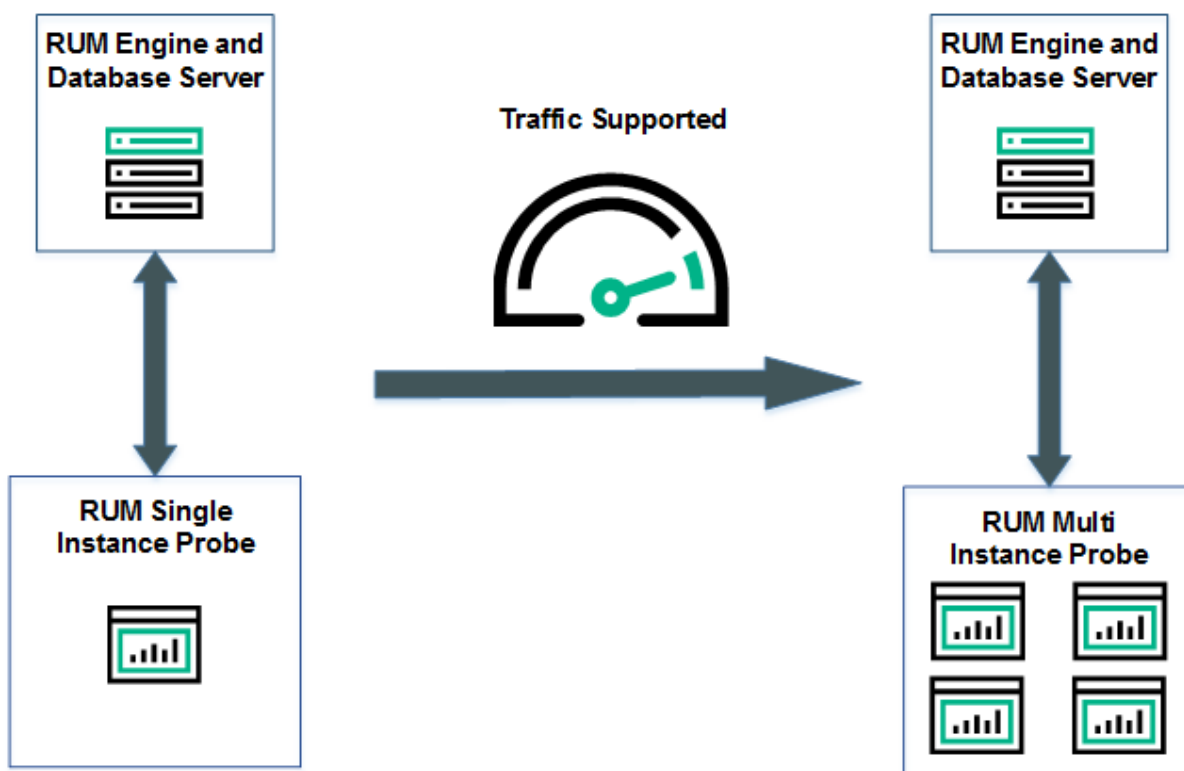
HPE Business Process Monitor 9.40

- AppPulse Active Integration with HPE Application Performance Management (APM) – Provide self-service capabilities to your LOB using AppPulse Active. Applications configuration and monitoring data is synchronized to APM allowing the CIT to keep a centralized monitoring view of the critical organization applications health.
- Added support for IPv6 Dual Stack network – BPM Agent can now be installed on IPv6 Dual Stack network servers.
- BPM Bot – Connect BPM Agent to ChatOps tools. Chat with a BPM Agent to understand the current application status
- Support Mobile Center 2.5 including support for mobile devices on AWS device farm and support for Emulators.
- Support for LoadRunner 12.55
- Support for UFT 14.01
- Added support for the following browsers

- Internet Explorer 11.0
- Firefox ESR 52.x 32 bits
- Operating System - Added support for Microsoft Windows 2016

HPE Real User Monitor 9.40

- Multi Instance Probe – A new RUM deployment for better resource utilization which offers increased traffic support

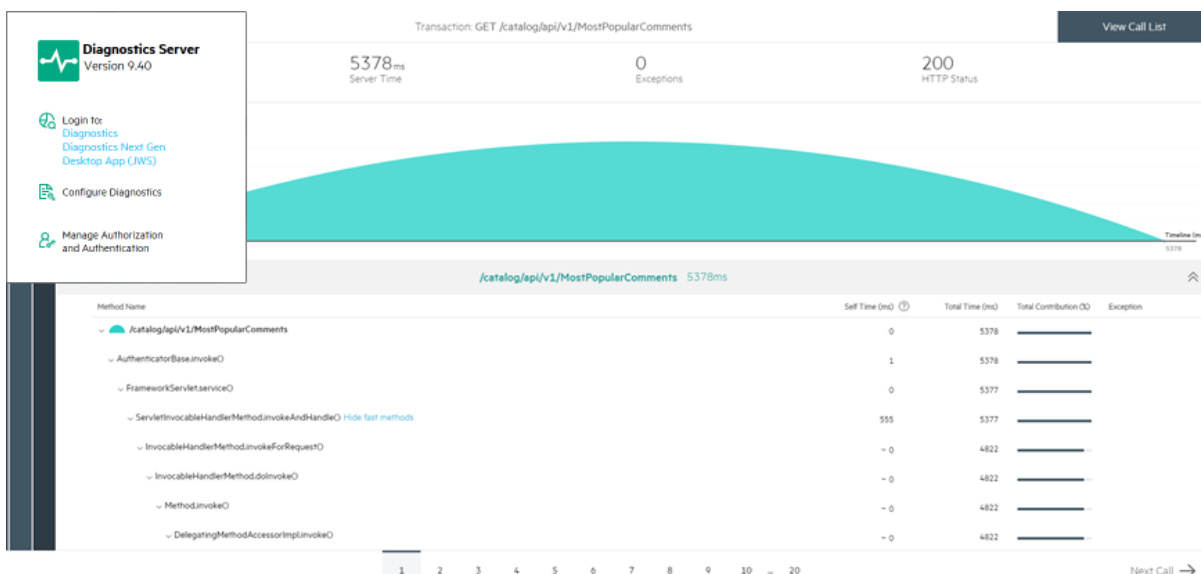


- RUM Monitoring
 - Extended Master Secret SSL handshaking
 - Support Message Queue (MQ) version 8 monitoring
 - ISO 8583 scalable monitoring solution with configurable parameters for encoding
 - Monitor Virtual Extensible LAN (VXLAN) traffic
 - Monitor Kony mobile apps (beta)
- Security
 - RUM Engine Database MySQL upgraded to 5.7.16. Added instructions for upgrading MySQL
 - Tomcat version in Client Monitor upgraded to 8.5.4.

- Open SSL version in sniffer probe upgraded to 1.1.0
- Applied security vulnerabilities fixes
- Certifications
 - Support OpenJDK 8 for RUM Engine and Probe
 - Support MS Hyper-V 2012 R2
- Browser versions
 - Internet Explorer 11.0
 - Firefox 52.x ESR
 - Google Chrome with the latest available version – for Application Health only.

HPE Diagnostics 9.40

- Rejuvenate UI - Next generation UI for Diagnostics. In order to get full support for the new UI, both Diagnostics servers and Agents should be upgraded.



- Java web-start (JWS) solution – Launching Diagnostics through JWS to remove browser dependency on Java Applets.
- Content
 - Java agent will capture and create visibility of Non-Sequential Server Requests
- Customer Enhancements
 - New profile with lower overhead for long server request on production
 - Implicit outbound HTTP calls support
 - Add HTTP status to the call profiles

- Provide a way to construct custom application metrics
- Specific Diagnostics API user to update thresholds from APM management
- Security improvements
- Mandates
 - Support for Microsoft SQL Server 2016
 - Support for Windows Server 2016
- Integration
 - Enable Diagnostics-OMi10 integration
 - Capability to see Health Indicator status in APM using SiteScope-Diagnostics integration

SiteScope 11.40

- New features
 - New Public APIs – Enable more automation to customers by exposing additional APIs
 - Kubernetes Heapster – Support accessing Kubernetes metrics through Heapster (will also enable OpenShift support)
 - New Microsoft Azure monitor – support more flexible permissions model + support for Microsoft IAM services
- UI Rejuvenation
 - Unified Console – Create and edit workflow for CPU, Ping, Memory, Service, Script, and LogFile monitors.
 - Rebranding - The removal of “HP” and any HP logos from all Software products, names, websites, materials
- Security
 - Upgrade to Tomcat 7.0.73/JDK 1.8.0_131
 - NET upgrade for security mandates
- Enhancements
 - Support automatic proxy configuration (PAC file)
 - Support for swap partitions with the same name
 - Support metrics data gathering interval per monitor
 - Support Reverse Proxy configurations
 - UCMDB 10.32 Upgrade
 - Windows 2016

- OpenSuse 42.2
- REHL 7.4
- CentOS 7.3
- Visual Studio 2008
- Weblogic 12.3
- Aix 7.2
- OpenSSH 7.4 / 7.5
- NetWeaver 7.4 / 7.5

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