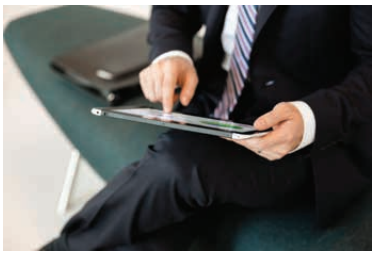
Hewlett Packard Enterprise

HPE LoadRunner and HPE Performance Center software

What's new in version 12



Hewlett Packard Enterprise LoadRunner and HPE Performance Center software are market-leading performance engineering and load testing products that significantly enhance your ability to build, test, and deliver applications with breakthrough speed and quality, at any level of scale. Version 12 adds support for a wide range of technologies and methodologies, along with hundreds of enhancements, all focused on cloud testing, mobile testing, and continuous testing.

Cloud testing

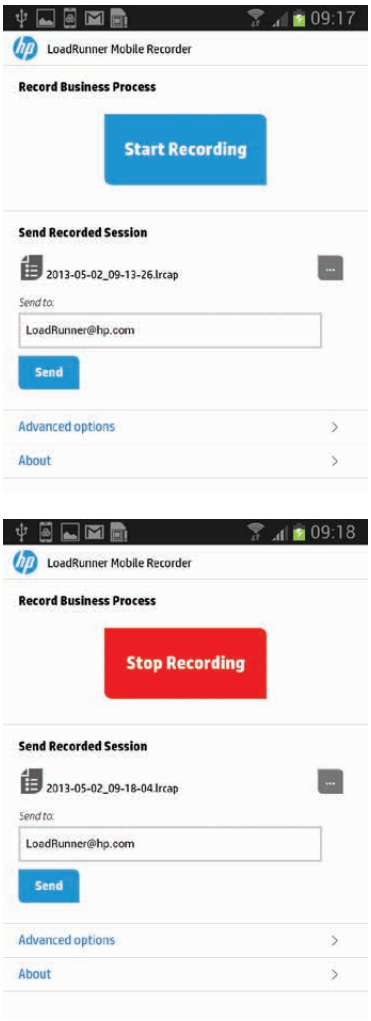
With cloud testing, you can quickly and elastically scale up tests to meet the demands of your customer-facing business applications, reducing the cost and overhead of managing dedicated machines. Version 12 now provides the ability to seamlessly leverage public cloud infrastructure to deploy load generators (LGs) to scale up and down based on your performance testing needs, without complicated network configuration.

The deployment of cloud-based LGs is built into both LoadRunner and Performance Center, significantly reducing provisioning time, while maintaining security and control.

In LoadRunner, you can add multiple cloud accounts and manage network profiles for connecting to your various LGs. You can also secure host communications using public/private key pairs. In Performance Center, cloud accounts can be centrally configured via Lab Management, and LGs can be allocated to individual projects or managed centrally. You can provision hosts using standard templates or by creating your own, managing cloud host usage through built-in reporting.

You can execute load tests in a hybrid mode with a mix of load generators within your network and load generators in the cloud. You can also use the software in a fully cloud mode through Performance Center as a service.

Performance testing in the cloud
With HPE Performance Center and LoadRunner, you can quickly and elastically scale up tests to meet the demands of your customer-facing business applications.



Mobile recording
HPE Mobile Recorder allows you to record directly from your Android device.

Mobile testing

With the growth of mobile application development, it is extremely important to understand how the application will perform and what risks the mobile application brings to the data center and to the success of your business. Now you can test any mobile application, whether it is built in house or by a third party, on any platform, without jailbreaking, tethering, or embedding intrusive "hooks" into the application. This means fewer applications will go untested, and you can cover a wider variety of mobile clients in each test scenario.

You can record directly from your Android™ device with the HPE Mobile Recorder application (available on Google™ Play), and with the Proxy Recording feature, you can record any native, mobile web, or hybrid application across any mobile device or operating system.

The new documentation describes how to select a recording method for mobile applications and provides easy step-by-step instructions for each method.

When testing mobile applications, it is critical to include the realistic network conditions of your end users. By virtualizing realistic network conditions, there are fewer assumptions to be made, making it easier to identify performance bottlenecks and optimize your mobile application. Both LoadRunner and Performance Center are integrated with Shunra™ Network Virtualization to provide complete control over your network conditions during test execution.

Shunra™ Network Virtualization for HPE offers the following enhancements:

- Improved integration with HPE software to enable you to perform network virtualization per virtual user group and to define multiple locations per load generator
- New network virtualization graphs for monitoring and analysis
- Added support for shared or non-shared bandwidth that simulates mobile networks

Note: LoadRunner and Performance Center 12 require Shunra Network Virtualization for HPE version 8.6 or higher.

Continuous testing

LoadRunner provides your developers with tools and APIs to introduce performance testing earlier in application development, leveraging unit tests for scalability smoke testing, and early feedback to the developers. LoadRunner provides IDE integration with Visual Studio and Eclipse, and unit test tools, including JUnit, NUnit, and Selenium.[1]

Both LoadRunner and Performance Center now provide REST APIs to automatically trigger performance tests from CI/build systems, such as Jenkins, after every build to compare baseline test results against service level agreements (SLAs).

Performance lifecycle management (Performance Center)
Just as you can reuse your test scripts to create your monitoring scripts, the Performance Application Lifecycle (PAL) feature in Performance Center allows you to complete your DevOps feedback loop. You can compare performance test results to real production data gathered from HPE Application Performance Monitoring products, Google Analytics, WebTrends, and IIS logs. This allows for tuning your performance test scenarios closer to reality, reducing test assumptions and risks.

[1] Available only in HPE LoadRunner.

User experience

HPE continues to evolve the LoadRunner and Performance Center user experience to reduce the time required to deliver applications with quality. The new Test Express designer provides a simplified view of test creation in Performance Center. You can even upload custom Analysis Templates to automatically generate reports based on the graphs and data you need most.

Miscellaneous enhancements

Virtual User Generator

- The Virtual User Generator features now offers:
- An enhanced replay summary with transaction breakdown and time trend charts
- Support for editing common file types in Virtual User Generator
- The ability to cancel a recording session without overwriting script
- Improved search capabilities
- Performance improvements, including the option to disable snapshots for better performance

Virtual Table Server (VTS)

The all-new VTS, first introduced in version 11.52, now allows you to create multiple running instances of VTS, run VTS commands and batch files from the command line, and populate data tables with sample data from the main menu.

TruClient to Web/HTTP converter utility

The new TruClient to Web/HTTP converter utility allows you to record complex business processes using the powerful TruClient protocol, and convert to Web/HTTP for tests that require high scalability, reducing time to script for short sprints.

New language support

HPE Performance Center now adds support for German and Russian languages.

Protocol enhancements

Core to the HPE performance engineering solutions is our unmatched application technology support. In version 12, LoadRunner and Performance Center share the following protocol enhancements:

PROTOCOL	ENHANCEMENTS
Web HTTP/HTML	• HTML5 WebSocket support • PEM file enhancement with Open SSL Conversion tool • SPDY support • TLS 1.2 support • Enhanced asynchronous support with ResponseHeader callback • Ability to convert Wireshark and Fiddler files into a Virtual User Generator script from Windows® Explorer with automatic detection and handling of SSL traffic • Recording troubleshooting: ability to identify recording failure and suggest a possible fix
TruClient	Support for rendezvous points, IP spoofing, and Shunra Network Virtualization
Silverlight®	Support for latest version and IP spoofing
SAP-Web	Correlation Studio support in Virtual User Generator
LDAP	Support for the latest version of LDAP SDK
Flex	Support for the latest Apache SDK

For more information
For a closer look at the enhancements in version 12 of HPE LoadRunner and HPE Performance Center, visit any of the following sites.

HPE Load Runner data sheets and white papers:
hp.com/go/loadrunner

Performance Center data sheets and white papers:
hp.com/go/performancecenter

HPE Live network:
hpln.hp.com/group/performance-center-and-loadrunner

HPE Community:
hp.com/go/swcommunity

LoadRunner Blog:
bitly.com/hplrblog

System requirements:
hp.com/go/PCLR_SysReq

PROTOCOL	ENHANCEMENTS
.NET	Support for version 4.5 and a new capability to disable generation of log statements
Citrix®	• Support for the latest client receiver • The ability to run multiple published applications in the same session • The latest version of XenDesktop
All protocols	Access to database APIs in all protocols

Note: The SAP Application Testing by HPE, HANA Edition (LoadRunner and Quality Center/Application Lifecycle Management) has passed the Premium Qualification for SAP Vendor Branded Resellers. This certification is effective from LoadRunner 11.50 and Application Lifecycle Management 11.00.

Environment support

HPE is committed to providing the latest test environment support for your needs. In version 12, the following updates and additions have been made for LoadRunner and Performance Center.

Support for:

- Windows Server® 2012
- Record and replay for Google Chrome
- Firefox version 23
- Internet Explorer® 11 (Web/HTTP)
- The latest versions of Eclipse Juno, JUnit, and Selenium
- Linux: Replay on Linux-based load generators was added for the protocols DNS, FTP, IMAP, LDAP, ODBC, POP3, SMTP, and Windows Sockets

Windows security

Version 12 adds support for Windows UAC and DEP security, as well as non-admin user support for the Controller, Virtual User Generator, and Analysis applications.

Community bundle and flexible delivery

LoadRunner and Performance Center now include 50 virtual users of select protocols,[2] for an unlimited time. These community virtual users do not include support.

LoadRunner no longer requires the purchase of a controller license, and Performance Center now allows unlimited concurrent runs.

HPE offers flexible term and perpetual licensing options, as well as software as a service (SaaS) and on-premises delivery to meet virtually application testing requirement.

Documentation

Version 12 offers multiple documentation enhancements, including workflow diagrams, enhanced task flows for popular protocols, and additional function reference examples.

[2] LoadRunner and Performance Center Community includes all protocols except for COM/DCOM, templates, and GUI (UFT) virtual users.

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