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Micro Focus LoadRunner Cloud supports digital transformation in multi-cloud environment

Who is Cognizant?

Cognizant is one of the world's leading professional services companies, transforming clients' business, operating, and technology models for the digital era. Its unique industry-based, consultative approach helps many of the best-known organizations in every industry and geography build and run more innovative and efficient businesses.

Single Test Case Repository for Improved Geo Alignment

One of Cognizant's clients is the largest UK-based energy and services company supplying electricity and gas to businesses and consumers in the United Kingdom, Ireland and North

America. Cognizant were engaged in a program of migrating all its internal and customer-facing applications from an on-premises datacenter in the UK to the cloud. This aligned the company's move towards digital transformation and a desire to increase flexibility by hosting applications in a multi-cloud environment, including Azure, Amazon Web Services (AWS), and Cognizant Cloud. The objective was to create a single performance testing process, taking the opportunity for some consolidation, to support a wide spectrum of technologies, realize cost savings, and bring improved alignment between three different geographies, spanning four divisions of the organization.

Karthik, Senior Technical Test Lead, at Cognizant, explains further: "Our client looked to us to recommend a cloud-based performance testing solution that would support current and future requirements. The geographical and divisional span of the organization meant that our solution needed to support many different industry protocols, such as SAP, Oracle, Java, and web."

The client and Cognizant conducted a detailed assessment, involving various stakeholders, to determine the right tool kit to support the technology requirements at enterprise level in the short and medium term.

> "Now, leveraging LoadRunner Cloud, an end-to-end performance testing process, including over 1,000 test scripts and more than 600 test scenarios, flows all the way from the SAP backend to the applications integrated at the frontend."
>
> **KARTHIK LAKSHMINARAYANAN**
> Senior Technical Test Lead
> Cognizant

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At a Glance

- **Industry**
  Professional Services

- **Location**
  United Kingdom

- **Challenge**
  Assist a client in creating end-to-end performance testing model in a multi-cloud environment, delivering performance testing across geographies and divisions.

- **Products and Services**
  Micro Focus LoadRunner Cloud

- **Critical Success Factors**
  + Substantial productivity improvements
  + Multi-cloud, multi-geo performance testing: 1,000+ tests scripts across 10+ different protocols and 600+ test scenarios
  + £60,000 annual cost saving by optimizing the tool infrastructure
  + Enhanced visibility supports Service Level Agreements (SLA) compliance

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End-to-End Cloud-Based Performance Testing with LoadRunner Cloud

Multiple performance testing solutions were evaluated against a traceability matrix framework prepared between the client and Cognizant. Micro Focus LoadRunner Cloud was found to meet the main selection criteria to establish best-in-class cloud load testing within Cognizant's client. LoadRunner Cloud also has the edge over other tools as an elastic cloud, self-driving test solution that can create dozens and hundreds of Load Generators (LGs) on demand within just a few minutes in over 20 cloud regions around the world, to emulate real networks during load testing when required. In a geographically diverse world such as this client's, this is a valuable feature.

Working closely with its client and Micro Focus, Cognizant managed the LoadRunner Cloud implementation, involving 5,000 virtual users. Karthik on the complexity of the client environment: "The client uses SAP GUI protocols; modern ones such as Fiori and HANA, and legacy ones such as ECC. Initially this gave some scalability issues in the performance tests, but the client, Cognizant and Micro Focus collaborated closely to troubleshoot this and managed to scale up to 50 users per LG, which had been the target. Now, leveraging LoadRunner Cloud, an end-to-end performance testing process,

including over 1,000 test scripts and more than 600 test scenarios, flows all the way from the SAP backend to the applications integrated at the frontend."

Productivity Improvements and Cost Savings

Karthik can see one very clear benefit: "The flexibility and scalability the new cloud model affords our client is clear to see. It takes just one click to select the relevant regional LG and the appropriate load, accessible from any device. A massive productivity improvement for our team right there."

It is easier to comply with SLAs as thresholds for successful test completion are visible to all, and are included in standard reporting. An intuitive dashboard provides complete, real-time network breakdown to isolate and remediate application performance bottlenecks.

The client comments: "We are pleased to see that the chosen global cloud solution is giving us improved flexibility, scalability, and maintainability benefits. Tool licenses and optimizations in LG machines also realized an annual cost savings of £60,000, as part of the LoadRunner Cloud implementation."

Karthik concludes: "We are delighted to offer our client one single LoadRunner Cloud-based

platform to support complex requirements involving more than 10 different protocols across geographies and divisions with a comprehensive performance testing process."

Integrated 3rd party solutions
- SAP (Fiori, HANA, ECC)
- Oracle
- Java

Deployment environment
20+ cloud regions:
- Azure
- Amazon Web Services
- Cognizant Cloud

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