LISA Virtualize

Eliminate dependencies on downstream services and systems for unconstrained and unlimited testing

iTKO’s LISA Virtualize can break through testing delays, costs and risks imposed by dependent IT resources that are unavailable or inaccessible for testing. LISA Virtualize eliminates system dependency constraints by “virtualizing”, or capturing and modeling, the target system’s dynamic behavior and performance so that it reacts and responds the same as the live system. Using LISA Virtualize, concurrent test and development teams have 24/7 access to realistic test environments to shorten their release cycles. Costs for test labs, responders, and stubs are dramatically reduced, and quality is improved by testing more scenarios faster and earlier in the lifecycle.

The Challenge: Unavailability of Services Constrains Agility and Productivity

System dependencies and constraints can severely limit your testing efforts, especially in complex, interdependent environments. Downstream components may be unavailable, or poor performing and unusable. In addition, the high costs of setting up complete test labs, mockups and stubs, combined with contention for shared resources can limit the scope of testing, significantly compromising quality and increasing risk.

- **Unavailable/inaccessible**: Systems may be constrained due to production schedule, security restrictions, contention between teams, or the service end points may not have been built yet.
- **Poor performing**: Systems or mockups that are available may not provide the behavior and performance needed for adequate testing.
- **Data Volatility and Inconsistency**: Configuring test data scenarios across systems may be extremely time consuming or cost prohibited.
- **Impractical for hardware-based virtualization**: Systems are either too heavyweight (mainframes) or distributed (remote third-party) to replicate via hardware or server-based virtualization approaches
- **Costly 3rd party access fees**: Reliance on Cloud or other shared services can result in costly per-use fees when testing

The result: Test and delivery teams sacrifice software quality and increase risk by reducing their testing effort, or they resort to costly and time consuming efforts to provision and maintaining their own test environments.

The Solution: LISA Virtual Test Environments

LISA Virtualize removes dependency constraints on test and delivery teams so they can deliver software faster, at lower risk and lower costs. LISA automatically captures and creates realistic virtual models of these dependent systems, so that live systems are no longer needed for testing purposes. The virtual models generated by LISA are dynamic - not static in behavior, and can accurately simulate complete stateful transactions and handle key parameters intelligently.
LISA Virtualize Features:

- Capture and analyze the live traffic between systems to create a robust model of the target system’s behavior, including the implementation and data layers underneath it, to allow relevant testing to continue in absence of the implementation.
- Simulate the effects of testing against 3rd party services that are deployed outside the local implementation, providing realistic responses back to the developer or tester.
- Automated test staging including setup/teardown, data configuration and other costly and time-consuming efforts.
- Unconstrained performance and load testing by providing a readily available test target that can be adjusted to the performance and scale characteristics desired by the testing team.
- Management dashboard to easily customize models for multiple teams, and manage and schedule when and how virtual services are run.

LISA Virtualize Benefits:

LISA Virtualize works with your existing testing solutions to help you:

- Reduce business risk by rapidly simulating the real-world behavior and performance conditions of downstream system dependencies.
- Slash expenses for test labs, responders, stubs and mockups.
- Deliver test results faster across more scenarios, with maximum flexibility to modify virtual downstream system responses.
- Maximize team productivity with easily customized, 24/7 test environments.
- Ensure that extremely complex distributed applications achieve quality and performance with confidence.

LISA Virtualize delivers a flexible and powerful solution to the problem of system dependency constraints, and can deliver breakthrough agility and cost savings across the test and delivery lifecycle.

Contact iTKO
For more information, visit http://www.itko.com, check out our blog at http://blog.itko.com, call 1-877-BUY-ITKO (289-4856), or email us at sales@itko.com.