

# Using Nutanix and Login VSI for Performance Optimization including Citrix XenDesktop and XenApp

**Our job, as leaders in IT, is to have our finger on the pulse of changing technology and capture innovation to transform our organization's ability to provide and improve services. This allows our business to pivot in coordination with strategy while not worrying about the underlying equipment and software. When we make the right decisions, we enable all of our healthcare providers and revenue-generating activities to be more productive for patients and sustain a healthy financial operating model."**

– Jeremy Bernstein, Interim CTO,  
Presence Health

Login VSI's (the company) synthetic user technology for VDI and RDSH is used to simulate user workloads on the Nutanix Enterprise Cloud Platform and to measure the resulting end-user experience. By scaling to thousands of synthetic users, Login VSI benchmarking software can be used to predict the maximum user density previously supported before the end user experience may start degrading. These measurements can be used to determine where to make optimizations that may greatly improve the responsiveness of virtual desktops and applications with the existing solution. Login VSI's technology enables you to objectively optimize without impacting your production users and you can deliver a better digital workspace performance at a lower cost to more users. Additionally, you can reduce risk of workload degradation by functionally testing solutions prior to turning the production systems on. Using Login PI automated virtual user monitoring software, enterprises can continue to maintain desired performance by continuously checking that the user experience does not degrade over time.

## SOLVING A CUSTOMER PROBLEM

In late-2017, Presence Health initiated an Epic Systems upgrade project that precipitated a multi-million-dollar investment in Nutanix Enterprise Cloud OS software, hardware, software, and implementation services. Login VSI was brought into the project by Citrix to help with the performance optimization. The Login VSI test-data enabled the on-site Nutanix engineer to optimize specific settings in the Nutanix software and hardware used for the solution. The first run of Login VSI after implementation of the new system supported a maximum of 2912 users. By optimizing based on the Login VSI test data, the customer could increase to a maximum of close to 4200 users on the same set of hardware. Using recent Gartner numbers estimating the annual Total Cost of Ownership per Server Based Compute device to be \$2,300, this optimization use case would suggest a total annual monetary savings of over \$2.9M.

## SOLUTION ARCHITECTURE

For both products the Management Servers are tasked with scheduling sessions and collecting data while the Launchers are tasked with initiating sessions to the target VDI or RDSH environment. The Login VSI and Login PI synthetic users run inside of the target environment and can run any application within the digital workspace in order to generate load or monitor the production environment for availability and responsiveness.

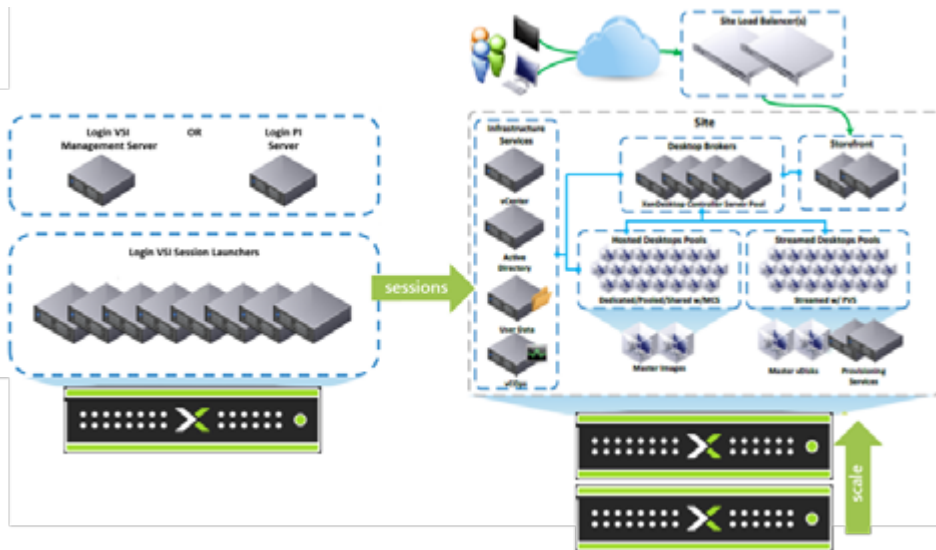


Figure 1. Login VSI and Login PI Infrastructure



#### Nutanix Ready Validation

- Login VSI 4.1 Pro is validated on Nutanix AHV
- Login PI 2.1.2.6 is validated on Nutanix AHV

#### RESOURCES AND GETTING STARTED

- Citrix on Nutanix AHV Reference Architecture, Validated By Login VSI
- Citrix Reference Architecture Webinar
- Presence Health Case Study
- Nutanix Alliance Partner Page

#### ABOUT LOGIN VSI

Login VSI ([www.loginvsi.com](http://www.loginvsi.com)) is the industry standard in synthetic load testing and active monitoring for VDI and DaaS environments (infrastructure and applications). Our customers are enterprises with centralized desktop environments and/or business critical applications running in VDI, and all major IT vendors that offer solutions for VDI. Login VSI is used to build and maintain virtual desktop environments that offer the best possible End-User Experience, and to avoid problems with VDI performance and availability.

#### KEY SOLUTION BENEFITS

Nutanix and Login VSI help deliver end-to-end solutions for the best user performance.

Here are the top 5 benefits of using Login VSI and Nutanix Enterprise Cloud together:

- Build an optimized Nutanix environment that offers excellent performance while maximizing value through reducing costs by buying only what you need
- Reduce costly errors and time spent re-architecting by making relevant infrastructure decisions based on facts vs. speculation
- Enhance productivity with pre- and post-testing to limit production disturbances from planned changes
- Reduce risk to your business through pro-active monitoring to avoid production disturbances from unplanned changes
- Plan better for future needs by predicting potential performance problems from gradual deterioration before real users are affected

Nutanix makes infrastructure invisible, elevating IT to focus on the applications and services that power their business. The Nutanix enterprise cloud platform leverages web-scale engineering and consumer-grade design to natively converge compute, virtualization and storage into a resilient, software-defined solution with rich machine intelligence. The result is predictable performance, cloud-like infrastructure consumption, robust security, and seamless application mobility for a broad range of enterprise applications. Learn more at [www.nutanix.com](http://www.nutanix.com) or follow us on [Twitter@nutanix](https://twitter.com/nutanix).

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