

# KEY BENEFITS FOR BUSINESS AND IT

- Get as much as 30X faster time to value from concept to production
- Eliminate under-utilized infrastructure silos, using up to 80% less space and 50% lower CapEx.
- Get fast VM related compute and storage performance
- Unprecedented in-flight data security
- FIPS 140-2 Complaint (AES-256)

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. Nutanix has helped large and small IT organizations simplify their datacenter and gain predictable performance, linear scalability, and cloud-like infrastructure consumption.

Vcinity provides robust security features with line-rate WAN encryption without increasing latency or reducing data throughput. In addition, Vcinity's DataPrizm<sup>™</sup> feature provides another layer of protection by distributing data over disparate, separately encrypted network paths.

## SOLUTION OVERVIEW

Together, Nutanix and Vcinity help deliver end-to-end solutions for secure data replication over the WAN. Here are top features of the joint solution:

- Easy to design and deploy: Leverage sizing tools and reference designs to go from concept to production as much as 30X faster than traditional approaches
- One platform for all: Consolidation on to a single solu- tion with predictable scalability delivered by Nutanix's web-scale architecture
- Secure in-flight data with line-rate, single or dual encryption without degrading throughput

"Adding Vcinity's dual line-rate encryption did not adversely impact the throughput for Nutanix replication workflows. In fact, our RAD X system integrated seamlessly with the Nutanix environment."

- Steve Wallo, CTO, Vcinity

#### TECHNICAL DETAILS

Nutanix solutions natively converge server and storage resources into a single, 100% software-defined appliance that comes ready to run all enterprise applications, at any scale. Built on a distributed web-scale architecture, a single Nutanix hyperconverged appliance can simultaneous run different workloads, including enterprise databases and applications, VDI, and big data workloads.





## TECHNICAL RESOURCES

· www.vcinity.io/radical

## **ABOUT VCINITY**

Vcinity increases the agility and velocity of digital transformation for enterprises by enabling applications to instantly and securely operate on data regardless of where it resides. Our solutions create a new paradigm which facilitates the ability to operate on data without having to move or copy it first, while maintaining local performance. Learn more at https://vcinity.io.

#### **ABOUT NUTANIX**

Nutanix makes IT infrastructure invisible with an enterprise cloud platform that delivers the agility and economics of the public cloud, without sacrificing the security and control of on-premises infrastructure. Learn more at www.nutanix.com or follow up on Twitter @nutanix.

Vcinity provides robust security features for the WAN with line-rate data obfuscation, single or dual encryption (AES-256 and SIMON-256) including support for 3rd party key management and orchestration solutions.

- 30 Gbps of either AES-256 or SIMON-256 encryption per RAD X-1040
- DataPrizm<sup>™</sup> feature splits a network flow across up to 8 disparate paths with up to 8 DataPrizms per RAD X-1040
- Supports a unique encryption key with dynamic key management per flow / per path
- KMIP API support for third party solutions

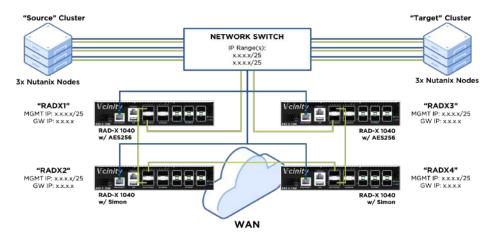


Figure 1: Vcinity's Dual Encryption for Nutanix Replication Workflows

As shown in the figure above, a pair of Vcinity's RAD X-1040s emulated the WAN at a variety of latencies from Oms to 180ms. The first pair of RAD X-1040s (RAD X1 and RAD X3) provided default gateway to each of the Nutanix clusters, adding a layer of AES encryption to the traffic as it traversed through them. The second pair of RAD X-1040s (RAD X2 and RAD X4) provided a second layer of Simon encryption and the WAN latency emulation. The test results confirmed that the dual encryption did not impact the throughput of replication traffic.

#### **GET STARTED**

Nutanix and Vcinity are committed to our customers' success. We offer a wide range of services, around design, deployment, and optimization, as well as custom services tailored to customers' needs. Contact <a href="mailto:sales@vcinity.io">sales@vcinity.io</a> for more information about Vcinity offerings.



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