Bitdefender®

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The Blueprint for a Secure Hyperconverged Datacenter

NUTANIX.
READY
· AHV ·

As a progressive IT leader, you are all about business enablement, service availability, and operational efficiency. You want your infrastructure and ops teams to focus on digital transformation and business-critical applications (rather than keeping the lights on in the datacenter full of disparate technology and vendor silos.) You envision an IT architecture that provides a better return on investment, facilitates agile service provisioning, and seamlessly scales as your needs grow. You demand the flexibility to use the most effective and economical application delivery option—whether it is private or public cloud. That's why you run your datacenter on Nutanix.

When it comes to securing your hyperconverged infrastructure, however, would you be willing to tolerate a security solution that requires tedious manual efforts to integrate with Nutanix, deploy and operate? Would you be OK with security agents taking up a quarter of your VM's CPU capacity, dragging down performance and virtualization density? Would you settle for subpar efficacy in protecting your enterprise cloud? If your answer is no, consider Bitdefender GravityZone®.

A certified Nutanix AHV-Ready solution, GravityZone Security for Virtualized Environments (SVE) is to security what Nutanix is to infrastructure. Built from the ground up for the hyperconverged datacenter, GravityZone helps ensure compliance while reducing operating costs, simplifying management, and increasing infrastructure utilization across the enterprise cloud.

AGILITY

GravityZone uniquely integrates with the Nutanix Enterprise Cloud Platform, supporting fast, automated provisioning in a wide variety of virtualized environments. Out-of-the-box automation enables IT operations teams to spin up thousands of secured virtual machines in a matter of hours. Being truly hypervisor-agnostic, GravityZone eases the transition to Nutanix Acropolis (AHV) from other virtualization platforms and enables seamless movement of protected VMs between public and private clouds, shortening time-to-value.

GravityZone is the only security solution that enables out-of-the-box integration and automation on Nutanix. For example, **GravityZone** automatically activates VDI agents on non-persistent VMs after a system restart. Other solutions require running manual scripts to [re-]register agents after every reboot – a time-consuming manual task.

REDUCED OPERATING EXPENSES

Universal compatibility

Similar to Nutanix, GravityZone offers freedom of choice in supported technologies, maximizing the return on your existing infrastructure investments. Compatible with all leading hypervisor platforms (including Nutanix AHV, VMware ESXi, Citrix Xen, and Hyper-V) and both Windows and Linux operating systems, GravityZone is an optimal security solution for heterogeneous virtualized environments of the private or public clouds.

Centralized manageability

Like Nutanix Prism delivers a common management layer for the consolidated infrastructure, the GravityZone Control Center unified management console simplifies security deployment, maintenance, and upgrades. The unified console provides single-pane-of-glass visibility into your datacenter security fabric, covering all virtual and physical servers and workstations of your enterprise cloud. GravityZone supports centralized creation and automatic administration of security policies to help streamline IT operations while improving compliance.

Smaller footprint

The unique architecture of GravityZone leverages turnkey security virtual appliances (SVA) to function as centralized points of security intelligence, acting as both a scanning engine and a source of security updates, as illustrated in Figure 1.
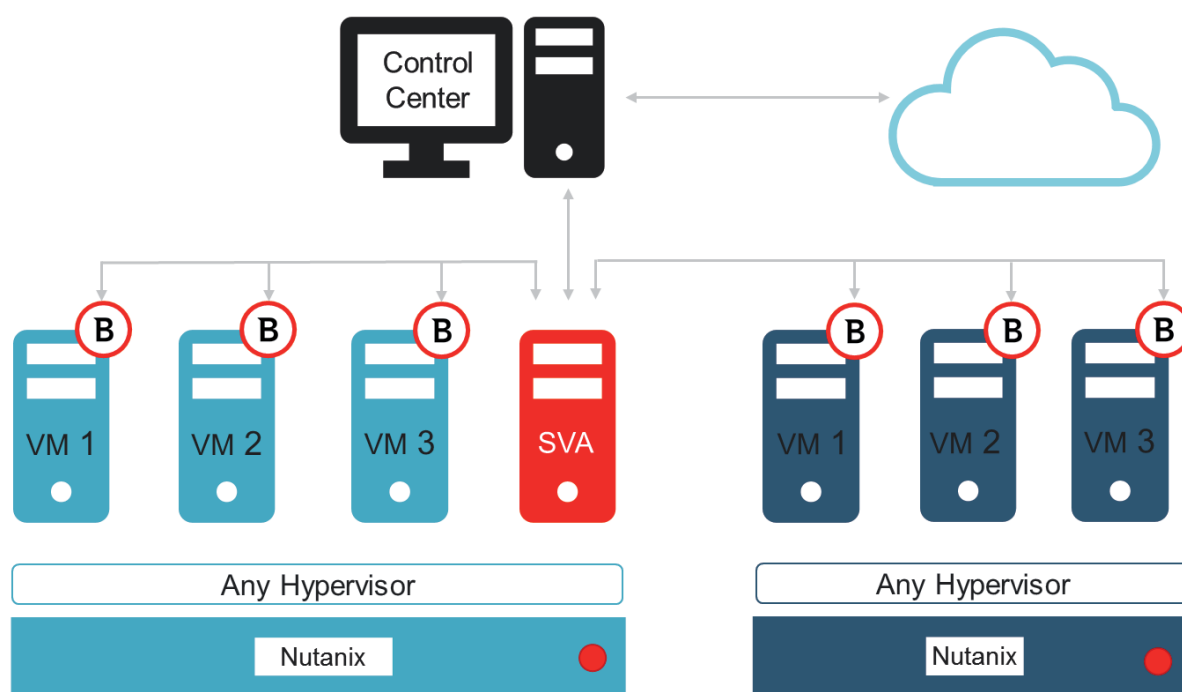
Figure 1. The GravityZone architecture is efficient, resilient, and highly scalable.

Unlike conventional solutions requiring a 1:1 relationship between a SVA and hypervisor host, a single GravityZone SVA can support multiple hosts plus physical endpoints in the same deployment. This lowers resource requirements and increases the ROI on IT infrastructure.

PERFORMANCE AND SCALABILITY

GravityZone delivers higher consolidation ratios, lower boot latency, and accelerated application response times. Engineered for virtualization and cloud, GravityZone eliminates the need to use traditional bulky and resource-intensive security agents in each VM. Its featherweight agents offload scanning and security updates to the SVA, resulting in 3.4x lighter CPU load and 3.6x faster response times than respective second-best competitors.

Like Nutanix, GravityZone enables effective and linear scaling. The capacity to add a virtually unlimited number of SVAs on demand gives GravityZone the unique scalability to support carrier-grade deployments. Cloning the SVA or running an automatic install with a golden image is all it takes.

RESILIENCE AND AVAILABILITY

The modular, redundant design of the GravityZone platform (including multiple instances of database, communication, update, or web servers) ensures its intrinsic resilience. Further, automatic policy-based load balancing across SVAs eliminates single points of failure at the system level, ensuring uninterrupted security and high availability (all configured and controlled from a single console.)

MAXIMUM PROTECTION

Security threats can disrupt application availability and system performance, cause regulatory non-compliance and result in theft or destruction of sensitive and valuable data. Per the Ponemon Institute's 2016 Cost of Data Breach Study, the average cost of a data breach rose from $3.79 to $4 million year over year. Based on an Adaptive Layered Security architecture that leverages, among others, patented machine learning and behavioral analysis techniques, GravityZone is proven to predict, prevent, detect, evade, and remediate advanced threats, known and unknown.

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Leading Healthcare Provider Secures Nutanix Infrastructure with Bitdefender

A large Western European healthcare organization was looking to deploy new infrastructure to host an Electronic Healthcare Records (EHR) system supporting four hospitals. The initiative had the following goals:

- Increased agility and responsiveness of EHR services to business and customer demands

- Improved EHR system availability (as interruptions could disrupt healthcare services in the entire city)

- Impenetrable security of patient data and full compliance with privacy laws

- Cost savings from consolidating individual EHR for four hospitals on one multi-tenant system

The company built its EHR system's VDI infrastructure on Nutanix AHV and Citrix® XenDesktop® and chose Bitdefender to secure the virtual environment. GravityZone SVE delivered the following unique capabilities:

- Best out-of-the-box integration and provisioning automation for both AHV and XenDesktop, including a seamless transition from VMware ESXi to AHV with zero downtime

- Superior manageability, visibility, and protection for all virtual workstations and servers carrying patient data

- Lowest performance overhead promoting higher virtualization density

With Nutanix, Citrix, and Bitdefender, the healthcare organization simplified the VDI infrastructure and security stack, shortened time-to-value from months to weeks, and shifted focus from maintaining a complex and fragmented datacenter to enabling business-critical applications and supporting customers.

More information

For more information on how Bitdefender can help secure your Nutanix infrastructure, please contact us at www.bitdefender.com/business/inquire or call (+1) 954-300-2674.

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