

Solution Paper

**unfollow** the traditional

# Bitdefender®

## BUILT ON NUTANIX® PROTECTED BY BITDEFENDER

The Blueprint for a Secure Enterprise Cloud





*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 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® Security for Virtualized Environments.*

*A certified Nutanix AHV-Ready solution, GravityZone 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 facilitating infrastructure performance and utilization across the enterprise cloud.*

**GravityZone** is the only security solution that enables out-of-the-box integration and automation on Nutanix. For example, GravityZone can apply granular security policies at scale, so newly created VMs automatically inherit policies assigned globally or, specifically, to the cluster or node on which they reside, accelerating time-to-security.

## AGILITY

GravityZone installs on Nutanix in minutes—either through a one-click deployment of the GravityZone Calm-Marketplace Blueprint or as an intuitive Nutanix Prism-driven workflow.

Figure 1. GravityZone can be rapidly deployed as a Calm Marketplace Blueprint or as a VM via Prism.



GravityZone uniquely integrates with Nutanix, supporting fast, automated provisioning in a wide variety of virtualized environments. Out-of-the-box automation allows IT 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 Hypervisor (AHV) from other virtualization platforms and enables seamless movement of protected VMs between public and private clouds, expediting time-to-value.

## REDUCED OPERATING EXPENSES

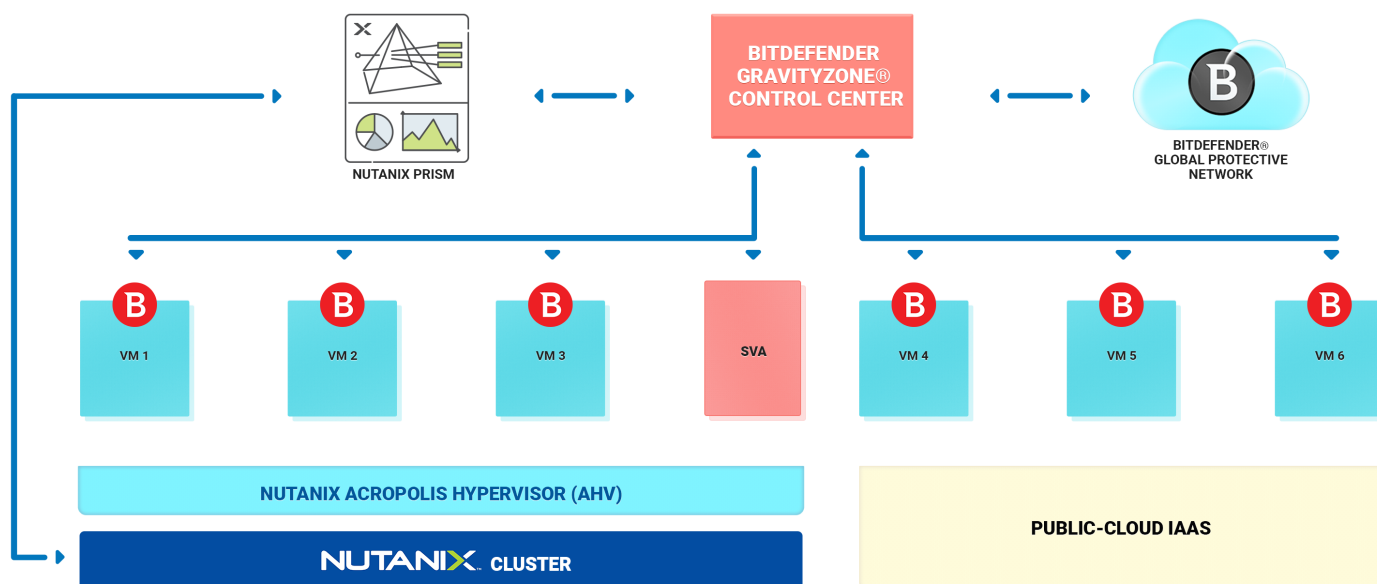
### Universal compatibility

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® XenServer, and Microsoft® 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

Just like Nutanix Prism delivers a common management layer for the consolidated infrastructure, GravityZone Control Center provides a single point of security management for the entire enterprise-cloud VM estate. The unified console adds single-pane-of-glass visibility to your datacenter security fabric, covering all virtual on-premises and cloud-based server-, VDI-, and DaaS workloads.



**B** Bitdefender featherweight in-guest security tools (BEST)  
**SVA** Security Virtual Appliance

Figure 2. GravityZone is engineered for simple manageability and optimal infrastructure performance.

## Nutanix Prism integration

Nutanix Prism supplies GravityZone with real-time information on the enterprise cloud's operating environment, including cluster hierarchy, up-to-date VM inventory and data on VM instantiation, termination and movement, as illustrated in Figure 3. This dramatically simplifies security deployment, configuration, and administration by enabling ubiquitous manageability, workflow automation, security-license reuse, and infrastructure-aware reporting.

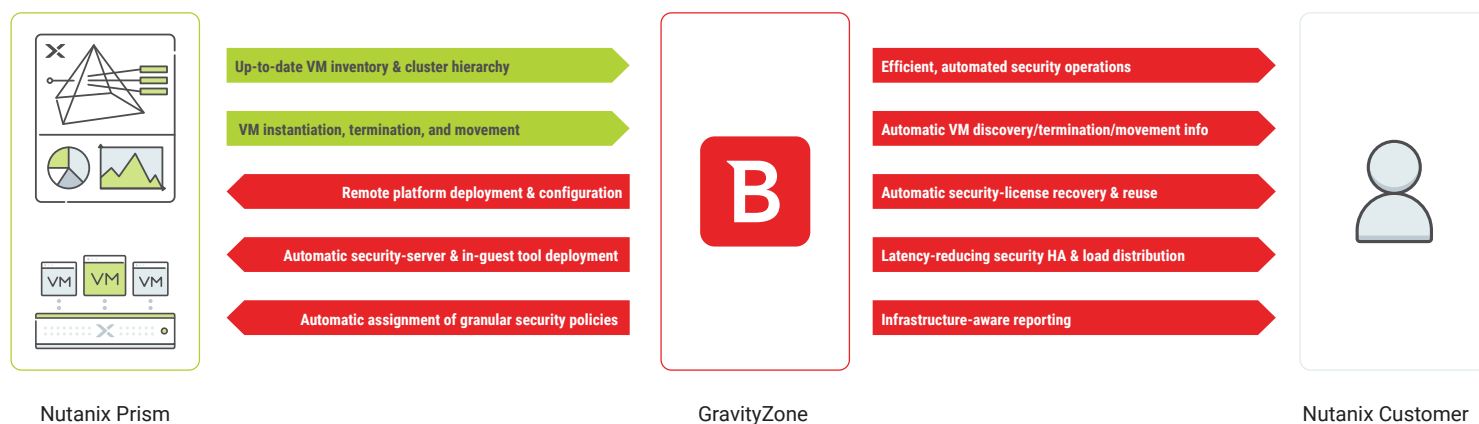


Figure 3. The GravityZone-Prism integration improves the efficiency of security operations.



## TOP INFRASTRUCTURE PERFORMANCE AND UTILIZATION

GravityZone delivers higher consolidation ratios, lower boot latency, and accelerated application response. Engineered for virtualization and the cloud, GravityZone eliminates the need to use traditional bulky and resource-intensive security agents in each VM. As illustrated in Figure 2, Bitdefender's featherweight in-guest security tools offload scanning and security updates to a dedicated security server (SVA), resulting in lighter CPU load and faster response times. Consequently, GravityZone improves virtualization density by up to 35% and reduces application latency by up to 17% compared to other solutions. This helps optimize infrastructure utilization and end-customer experience.

## SCALABILITY AND RESILIENCE

Like Nutanix, GravityZone enables effective and linear scaling. The web-scale architecture of the GravityZone Control Center and the capacity to add a virtually unlimited number of SVAs on demand gives GravityZone the unique scalability to support carrier-grade deployments.

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

## MAXIMUM PROTECTION

Security threats can cause disruptions, regulatory non-compliance and theft of valuable data—resulting in a staggering cost of \$3.6 million per data breach on average (per Ponemon Institute's 2017 Cost of Data Breach Study). Built on a layered next-generation security architecture—encompassing application control, tunable machine learning, network sandboxing, and other techniques—GravityZone consistently demonstrates in independent tests its superior efficacy against advanced threats, known and unknown.

Enhanced with integrated Patch Management, GravityZone boosts infrastructure resilience, providing automatic discovery and characterization of vulnerabilities and a wide range of patches for operating systems, third-party applications and golden images.



### More information

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

Bitdefender is a global security technology company that provides cutting edge end-to-end cyber security solutions and advanced threat protection to more than 500 million users in more than 150 countries. Since 2001, Bitdefender has consistently produced award-winning business and consumer security technology, and is a provider of choice in both hybrid infrastructure security and endpoint protection. Through R&D, alliances and partnerships, Bitdefender is trusted to be ahead and deliver robust security you can rely on. More information is available at <http://www.bitdefender.com/>.