Bitdefender

GRAVITYZONE AGENTLESS SECURITY WITH VMWARE® NSX™

Only Bitdefender GravityZone Security for Virtualized Environments fortifies agentless security with tunable machine learning while expediting and simplifying security operations.

AGENTLESS SECURITY

VMware NSX is the software-defined networking and security platform of choice for organizations deploying VMware vSphere™ – and with the introduction of VMware NSX-T Data Center – heterogeneous and hybrid environments.

In addition to its network security capabilities, VMware NSX is unique in its ability to enable agentless security for virtualized workloads. Based on VMware NSX Guest Introspection, agentless security removes the need for a third-party agent deployed within a virtual machine (VM). This improves infrastructure utilization and streamlines security operations by eliminating tasks related to deployment and management of an external in-guest agent, and by automating remediation with native VMware NSX workflows.

GRAVITYZONE AND VMWARE NSX

Compatible with both VMware NSX for vSphere (NSX-V) and NSX-T Data Center environments, GravityZone integrates with NSX Manager and one or more vCenter™ Servers and leverages NSX Guest Introspection to provide agentless VM protection. As Figure 1 shows, NSX Guest Introspection monitors the VM file system, while the GravityZone Security Virtual Appliance (SVA) performs policy-based antimalware scanning. SVAs also play an integral part in delivering GravityZone tunable machine-learning functionality.

Virtual Machine security policies can be applied automatically based on VM grouping and tagging data. Remediation is also automated. For example, when GravityZone determines that a VM has been infected, NSX can automatically tag and move it to a pre-defined security group, such as quarantine.
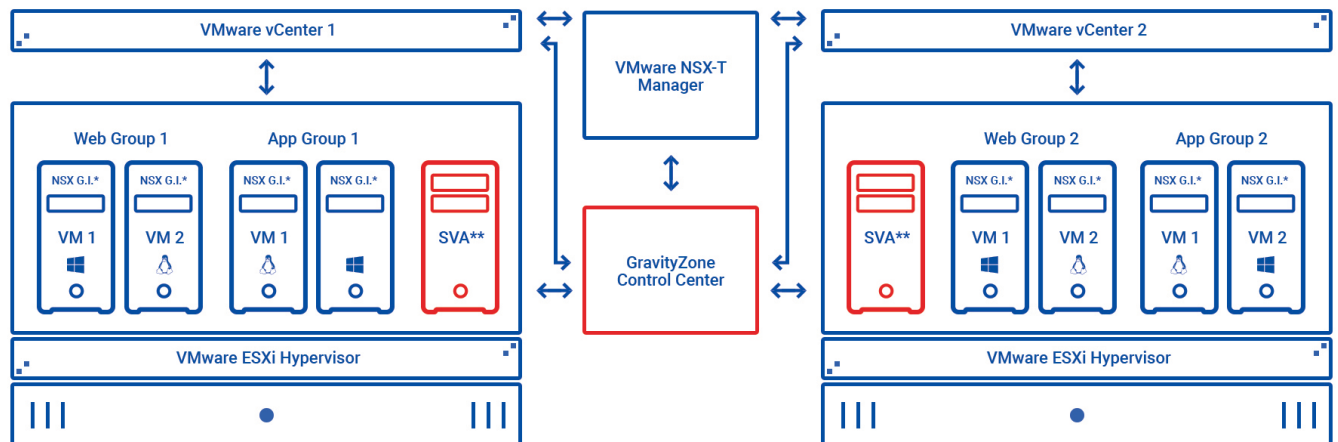
Mentor Graphics®
A Siemens Business

"Bitdefender was the only vendor with an easy-to-use web-based management portal for administrators. It provided a clean user experience without confusing notifications.

The deep integration and usability with VMware and automated features were also huge selling points."

– **Brian Alexander**
 Senior Systems Architect
 Mentor, a Siemens Business

Figure 1: GravityZone agentless security with VMware NSX-T Data Center

* NSX-T Guest Introspection
** GravityZone Security Virtual Appliance (SVA)

B

Bitdefender machine learning models use 40,000 static and dynamic features.

They are continuously trained on trillions of samples from hundreds of millions of endpoints globally.

This ensures GravityZone effectiveness in malware detection and minimizes false positives.

NSX-READY
TUNABLE MACHINE LEARNING

With Bitdefender HyperDetect tunable machine-learning, VMware NSX customers can protect their software-defined datacenter from a broad spectrum of threats with speed, low administrative overhead and minimal system impact. This powerful pre-execution defense layer features machine-learning models and advanced heuristics trained to spot infections and malware-obfuscation techniques.

As shown in Figure 2, HyperDetect allows administrators to adjust aggressiveness levels in detecting different threats to suit the context and risk profile of their organization. This lets customers detect high-probability, high-impact attacks while minimizing false positives on lower-risk threats.

For example, to prevent ransomware from disrupting datacenter operations, administrators can set the HyperDetect level for ransomware to "Aggressive." If grayware poses a lower risk, the organization can set HyperDetect to "Permissive" to minimize the number of alerts for grayware. Once a threat is detected, HyperDetect can take policy-driven action, such as denying file execution or deleting a file, or simply alert and report.
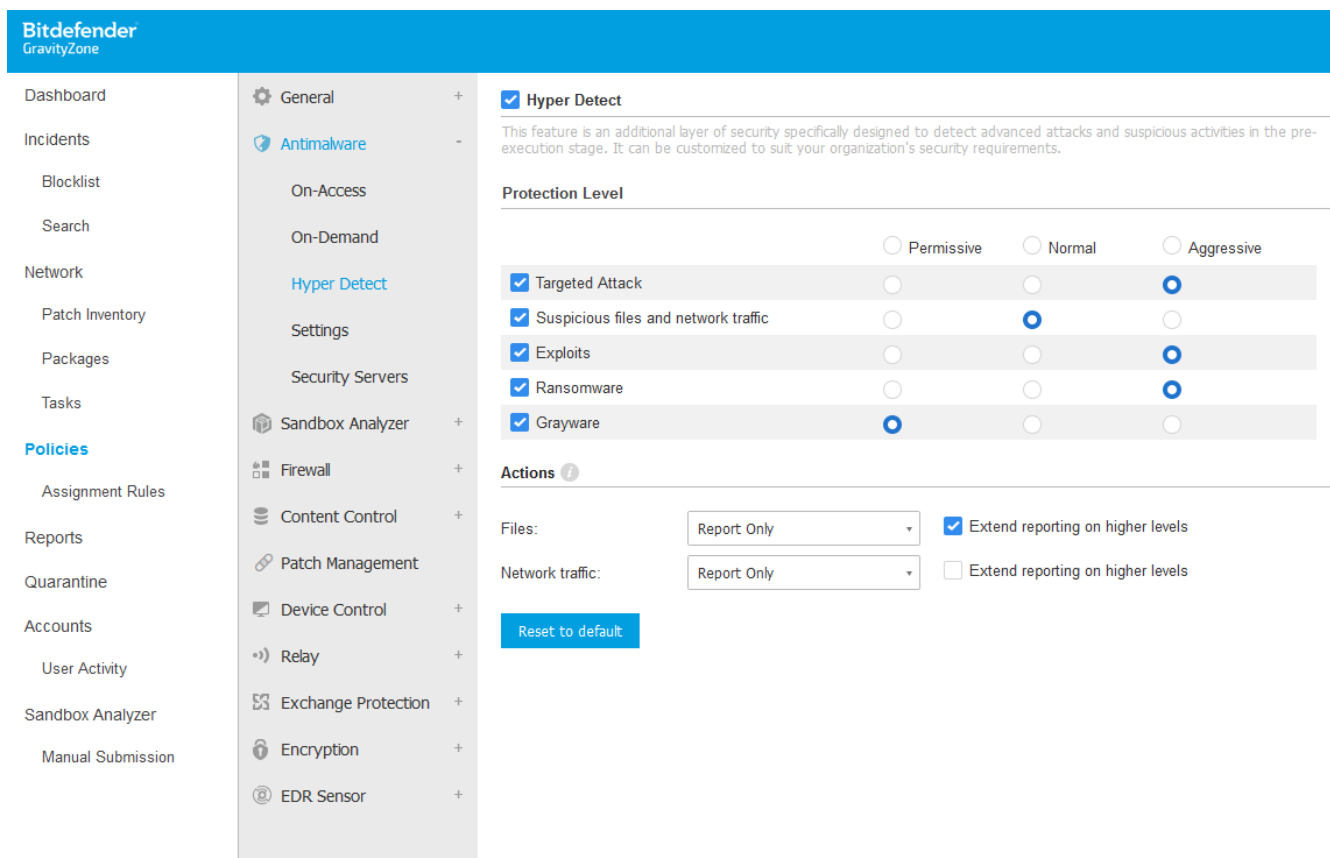

Figure 2: HyperDetect helps maximize detection rates while reducing false positives

PROTECT WITH GRAVITYZONE

Stronger Security Against Advanced Threats

Only GravityZone fortifies NSX-enabled agentless antimalware scanning with the advanced threat-detection capabilities of HyperDetect tunable machine learning.

Greater Operational Efficiency, Faster Time-to-Security

GravityZone native integration with NSX Manager and vCenter Server simplifies security management and automates deployment and orchestration of security services. For example, IT administrators can:

- Eliminate tasks related to in-guest agent management.

- Assign and manage GravityZone security policies directly from NSX Manager, without learning new tools.

- Apply VM-security and network security policies at the same time, shortening time-to-protection.

- Automate manual threat-remediation efforts by leveraging NSX native workflows.

Better Infrastructure Performance and ROI

With no third-party security agent in VMs and Bitdefender proprietary scanning and caching algorithms, the GravityZone NSX agentless solution reduces the "performance tax" traditional security imposes on infrastructure. This accelerates bootup, login and application response times (improving end-user experience) and frees up resources to run production workloads (increasing virtualization density).

PARTNERSHIP

Bitdefender has been a VMware Technology Alliance Partner (TAP) since 2013. In addition to working with VMware to validate NSX Guest Introspection for Linux, Bitdefender is a Design Partner and the first vendor to support agentless security with VMware NSX-T Data Center.

SPEEDWAY MOTORSPORTS, INC.

"GravityZone provided the highest levels of reliable security without slowing down computers and impacting the users' experience."

– **Matt Ulrich**
Network Administrator
Speedway Motorsports

BLDD ARCHITECTS

"Bitdefender is essentially invisible because it runs without any impact on response times or consolidation ratios, except that it makes our infrastructure extremely secure. Employees don't even know it's there. Bitdefender is our silent hero."

– **Dan Reynolds**
Senior System Administrator
BLDD Architects

WHY BITDEFENDER?

Bitdefender is a global cybersecurity leader protecting over 500 million systems in more than 150 countries.

Since 2001, Bitdefender innovation has consistently delivered award-winning security products and threat intelligence for the smart connected home, mobile users, modern businesses and their networks, devices, data centers and cloud infrastructure. Today, Bitdefender is also the provider of choice, embedded in over 38% of the world's security solutions.

Recognized by industry, respected by vendors and evangelized by customers, Bitdefender is the cybersecurity company you can trust and rely on.

THE BITDEFENDER ADVANTAGE

- Design Partner and first to support NSX-T Data Center
- Only agentless solution with tunable machine-learning
- Enables top virtualization density and performance

ENGAGE US

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