Bitdefender Certification Day

Roberto Novasconi - Avangate Italia Senior Support and Training Specialist

Stefano Maranzana - Bitdefender *Sales Engineer*

Giovanni D'Amato - Bitdefender Sales Engineer

18 giugno 2021

Agenda

- 10:00 10:15 Benvenuto
- 10:15 12:00 GravityZone Corso
- 12:00 12:15 Pausa
- 12:15 13:00 DEMO interattiva
- 14:00 14:30 DEMO interattiva
- 14:30 Test Certificazione





Bitdefender eLearning https://elearning.bitdefender.com/

Effettuare login con il proprio account personale.

Se non ne disponete fatecelo sapere subito, indicandoci Nome e cognome, email, azienda



COURSE CONTENTS

- 1. Overview
- 2. GravityZone Control Center
- 3. Unified Next-Gen Endpoint Security Client
- 4. Security for Virtualized Environments
- 5. Hypervisor Introspection
- 6. Security for Mobile Devices
- 7. Security for Storage
- 8. Sandbox Analyzer On-Premise
- 9. Security for Exchange
- 10. Email Security Cloud
- 11. Summary

END-TO-END BREACH AVOIDANCE

BITDEFENDER GRAVITYZONE®

THE ENTERPRISE SECURITY PLATFORM FOR THE BEST BREACH AVOIDANCE

Unified Prevention, Detection, Response and Hardening Across Endpoint, Network and Cloud

SOFTWARE-DEFINED & HYPERCONVERGED INFRASTRUCTURE



KVM













LAPTOPS AND WORKSTATIONS











PUBLIC, PRIVATE & HYBRID CLOUD

















































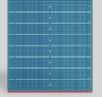




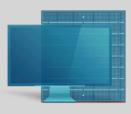
GRAVITYZONE ON-PREMISE

Overview





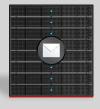
Hypervisor Introspection



Security for Virtualized Environments



Security for Storage



Security for Exchange



Security for **Endpoints**

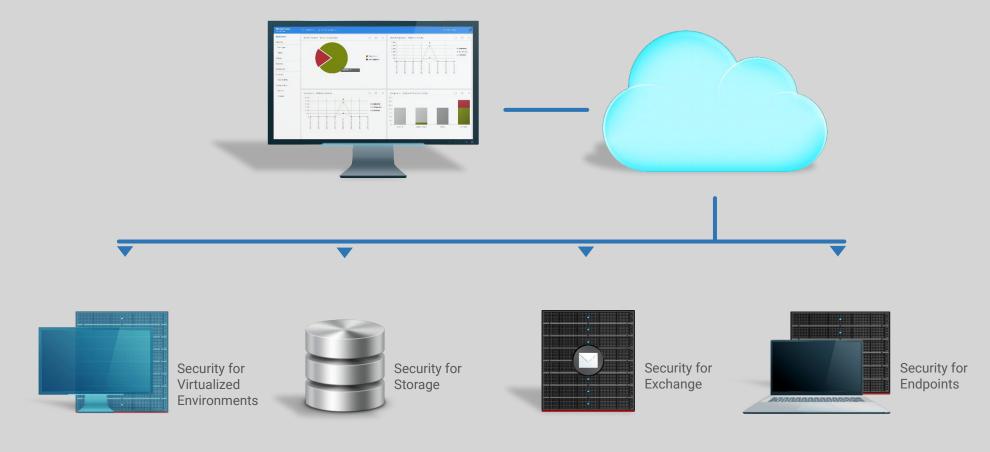




Bitdefender*

GRAVITYZONE CLOUD

Overview



GRAVITYZONEON-PREMISE vs CLOUD

	GravityZone		
FEATURE / SECURITY TECHNOLOGY	ON-PREMISE	CLOUD	
MANAGEMENT & INTEGRATION			
▼ Multi Tenancy		✓	
▼ Active Directory Integration	✓	✓	
▼ vCenter Server Integration	✓		
▼ Xen Server Integration	✓		
▼ Nutanix Prism Integration	✓		
▼ AWS Integration	✓	✓	
▼ Azure Integration	✓		
DETECTION AND RESPONSE MODULES			
▼ Search Queries		✓	
▼ Ransomware Mitigation	✓	✓	
HARDENING AND RISK ANALYTICS MODULES			
▼ Endpoint Risk Analytics (ERA)		✓	
▼ Application Control (Blacklisting)	✓	✓	
▼ Application Control (Whitelisting)	✓		
SECURITY SERVICES / ADD-ONs			
▼ Security for Mobile Devices	✓		
▼ Hypervisor Introspection	✓		
▼ Email Security		✓	
SERVICES			
▼ MDR		✓	

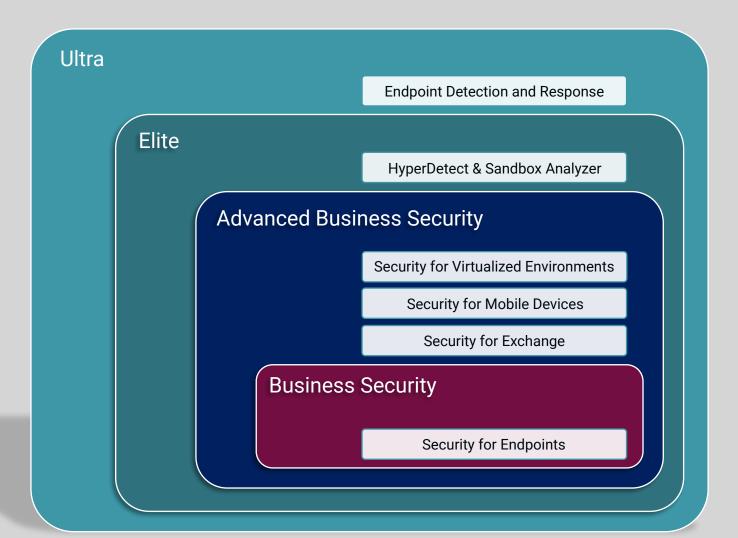
Add-ons for Bundles:

- Patch Management
- Full Disk Encryption
- Security for Storage
- Email Security (cloud)

Add-ons for Enterprise licensing:

- Patch Management
- Sandbox Analyzer (on-premise)
- Full Disk Encryption
- Security for Storage
- HVI (on-premise)
- Enterprise Elite Add-on for à-la-carte licensing
- Ultra Add-on for à-la-carte licensing

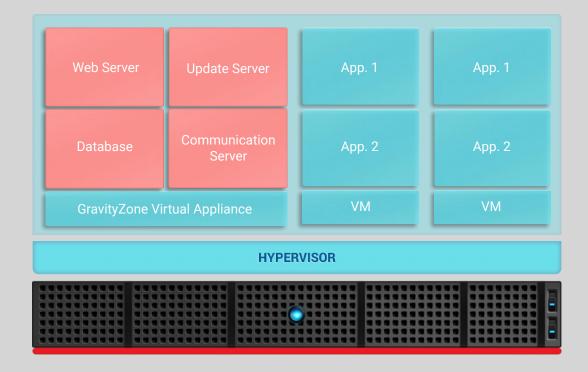
AVAILABLE BUNDLES



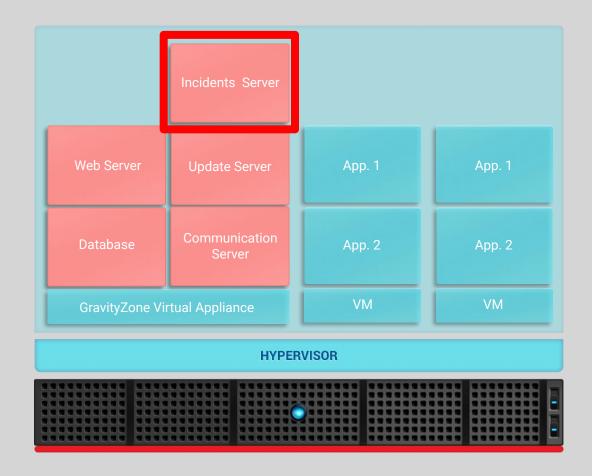
GRAVITYZONE CONTROL CENTER

The Management Component

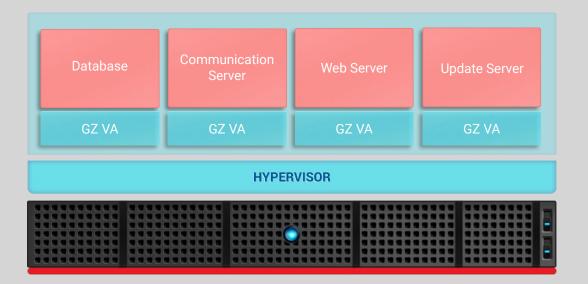
All-in-One Deployment - up to 4000 endpoints



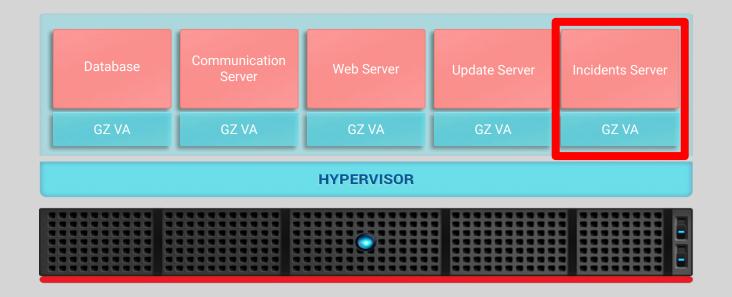
All-in-One Deployment with Incidents Server (EDR)



Cluster Deployment - up to 10000 endpoints

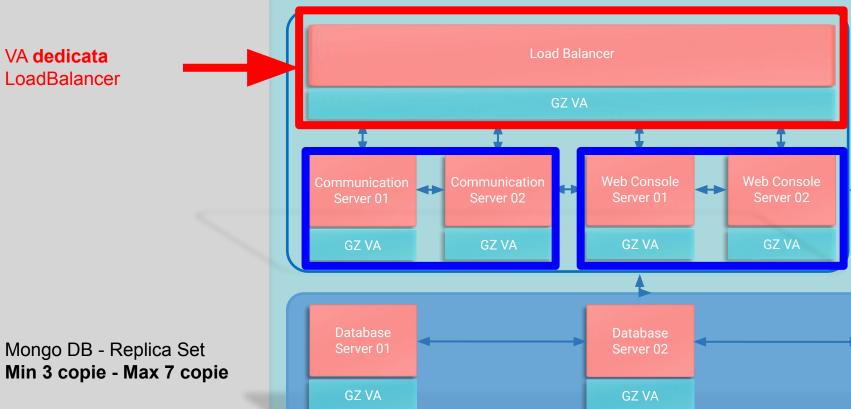


Cluster Deployment with Incidents Server (EDR)



Load Balanced HA Cluster Deployment

VA dedicata LoadBalancer



HYPERVISOR

HYPERVISOR

Bitdefender Update Servers

GZ VA

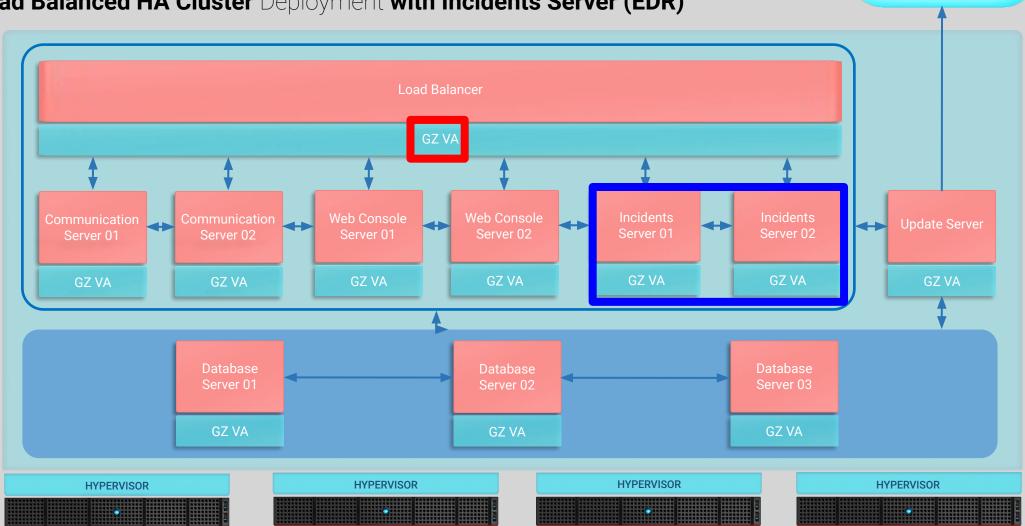
Server 03

GZ VA

HYPERVISOR

Bitdefender*

Load Balanced HA Cluster Deployment with Incidents Server (EDR)



Bitdefender Update Servers

Managing External Clients

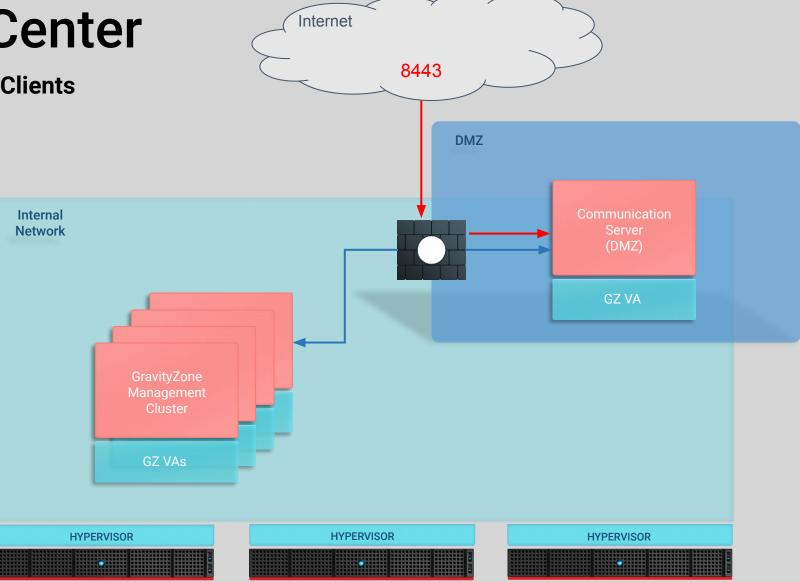
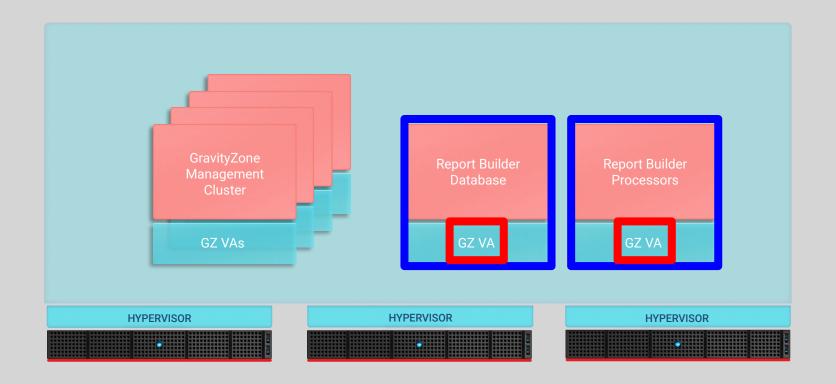


Table Bitdefender

optional Report Builder



BITDEFENDER ENDPOINT SECURITY TOOLS

Unified Next-Gen Endpoint Security Client

Windows

Linux

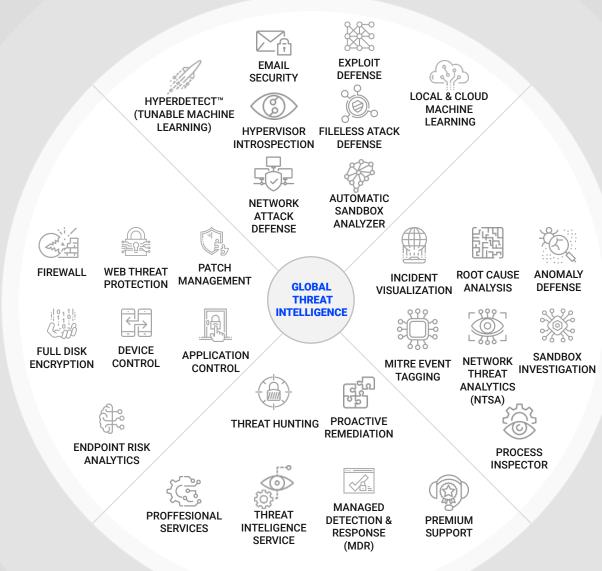
Mac OS

PREVENTION



Bitdefender GravityZone is a

next-generation security platform that lets you protect all the endpoints in the enterprise, including client devices and both virtual and physical datacenter infrastructure. RISK ANALYTICS & HARDENING

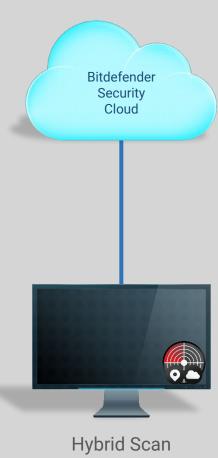


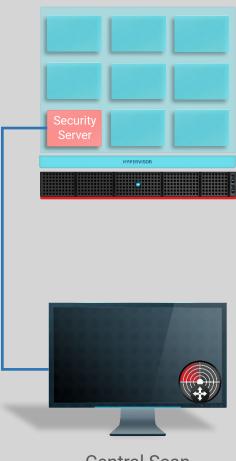
DETECTION & RESPONSE

BEST

Scan Engines

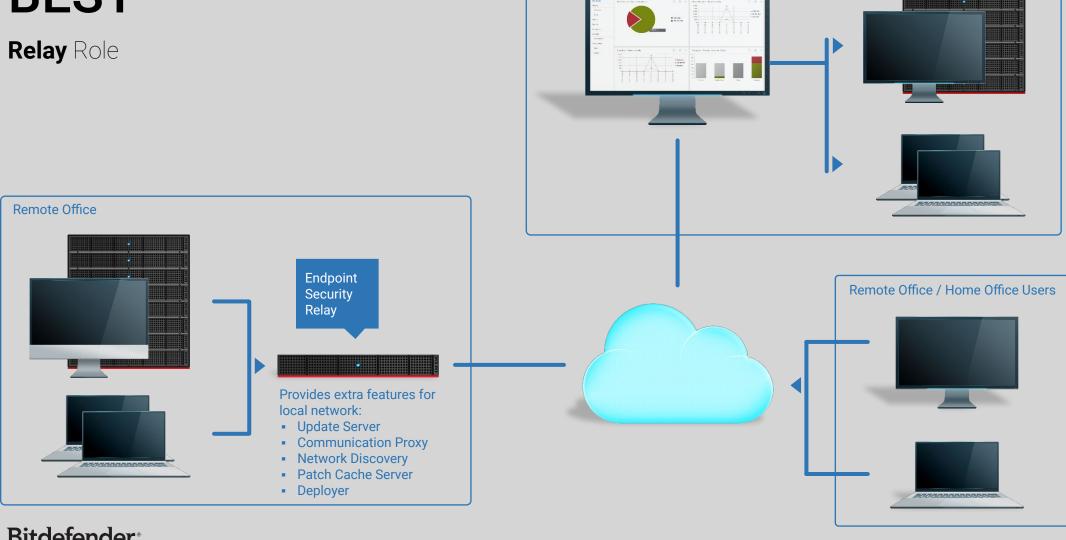






Central Scan

BEST



Headquarter

BITDEFENDER ENDPOINT SECURITY TOOLS

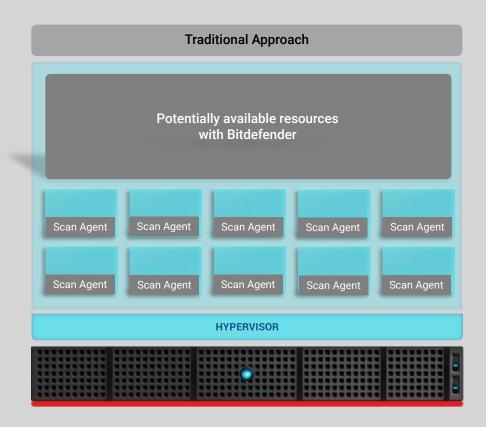
Protection Layers Availability

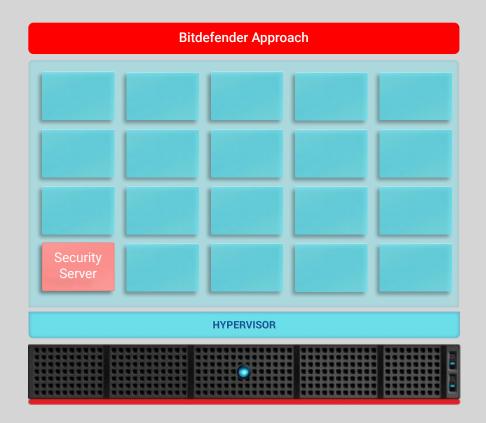
	WINDOWS		LINUX	macOS
Layer	Workstations	Servers	Servers	Workstations
▼ Antimalware	~	✓	~	✓
Local Scan	•	✓	~	✓
Central Scan	~	✓	~	
Hybrid Scan	~	✓	~	
▼ Advanced Threat Control	~	✓		•
▼ Fileless Attack Protection	~	✓		
▼ HyperDetect	~	✓	~	
▼ Advanced Anti-Exploit	~			
▼ Firewall	~			
▼ Content Control	~			•
▼ Network Attack Defense	~			
▼ Device Control	~	✓		•
▼ Application Control (Whitelisting)	~	✓		
▼ Full Disk Encryption	~	✓		•
▼ Patch Management	~	✓		
▼ Endpoint Detection and Response (EDR)	•	~	✓	~
▼ Endpoint Risk Analytics (ERA)	✓	✓		
▼ Sandbox Analyzer	~	✓		
Automatic Submission	•	✓		
Manual Submission	~	✓		
▼ Tamper Protection	✓	✓		✓
▼ Relay Role	~	✓	V	

SECURITY FOR VIRTUALIZED ENVIRONMENTS

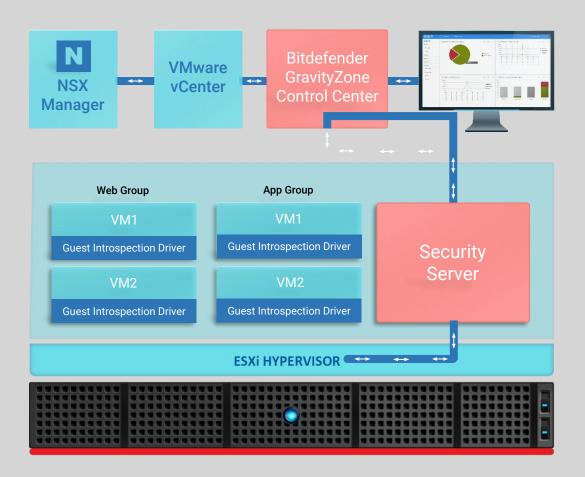
Hypervisor Agnostic Security

Traditional vs. Bitdefender Approach

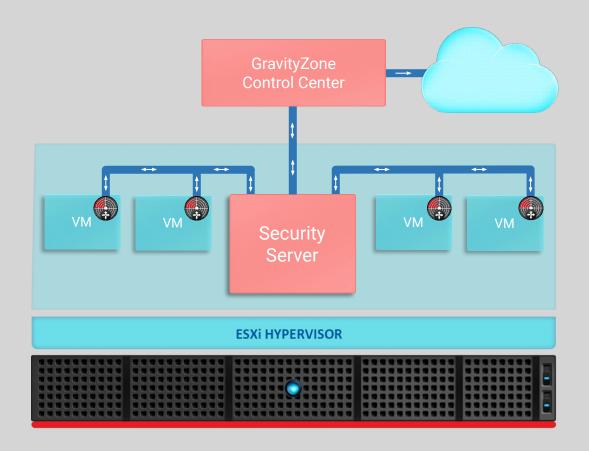


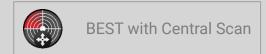


VMware Environments with NSX-V / NSX-T



Multiplatform Architecture



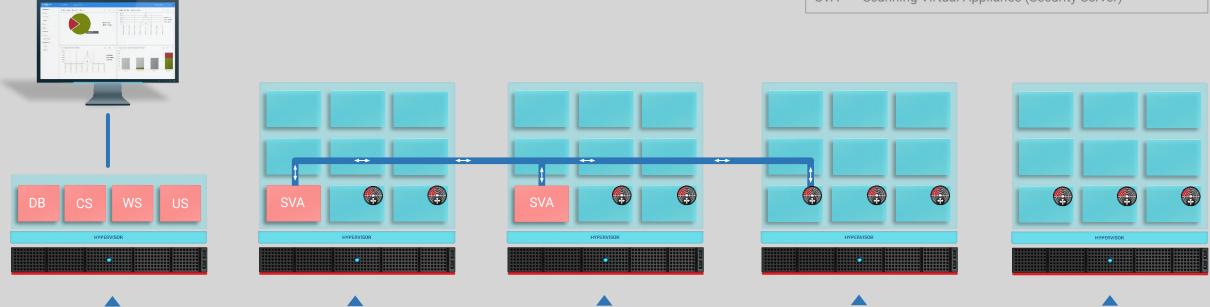


Multiplatform Architecture

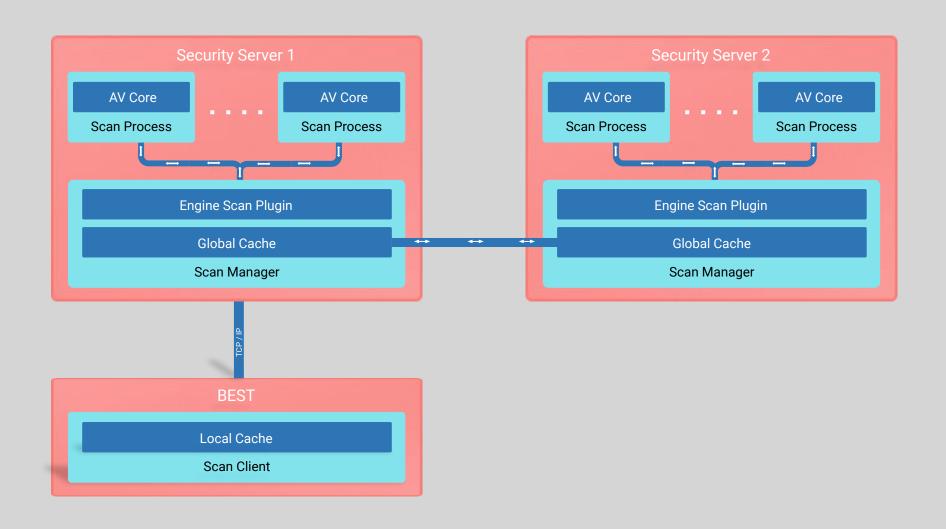


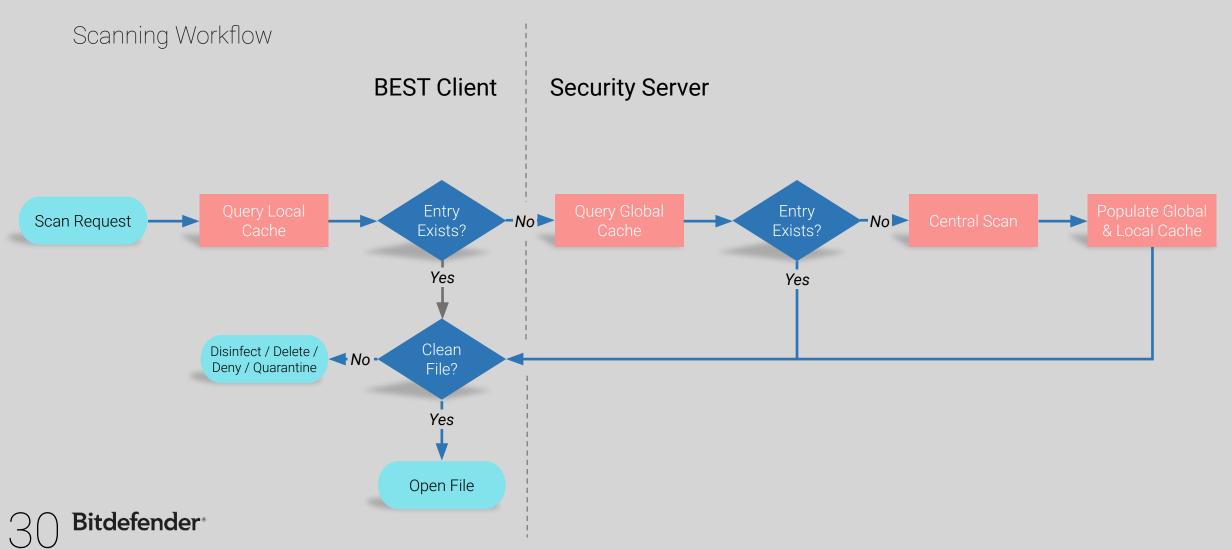
US Update Server

SVA Scanning Virtual Appliance (Security Server)



Scanning Components



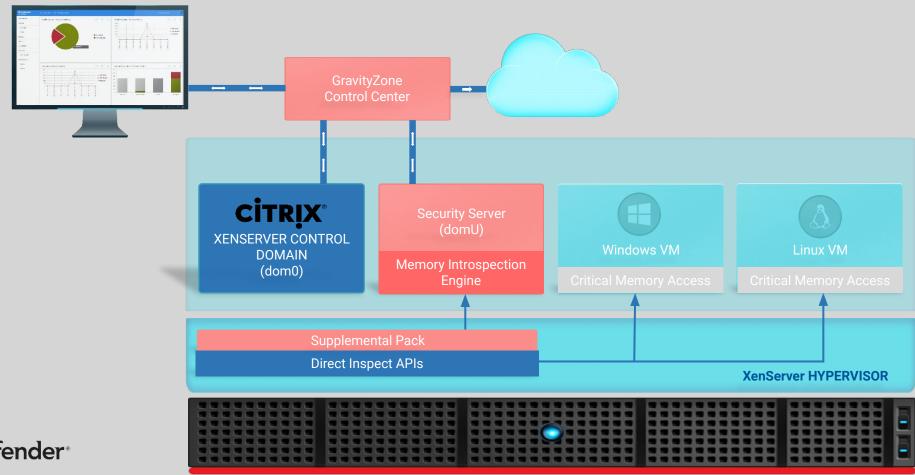


HYPERVISOR INTROSPECTION

Security at Hypervisor Level

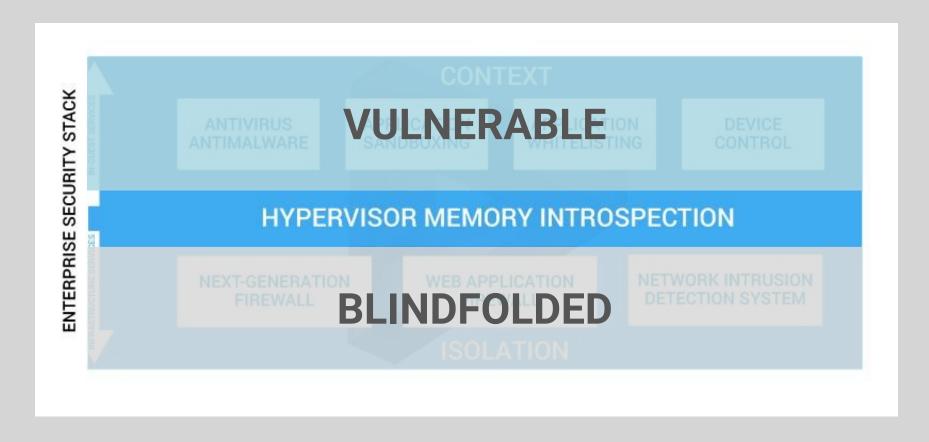
HYPERVISOR INTROSPECTION

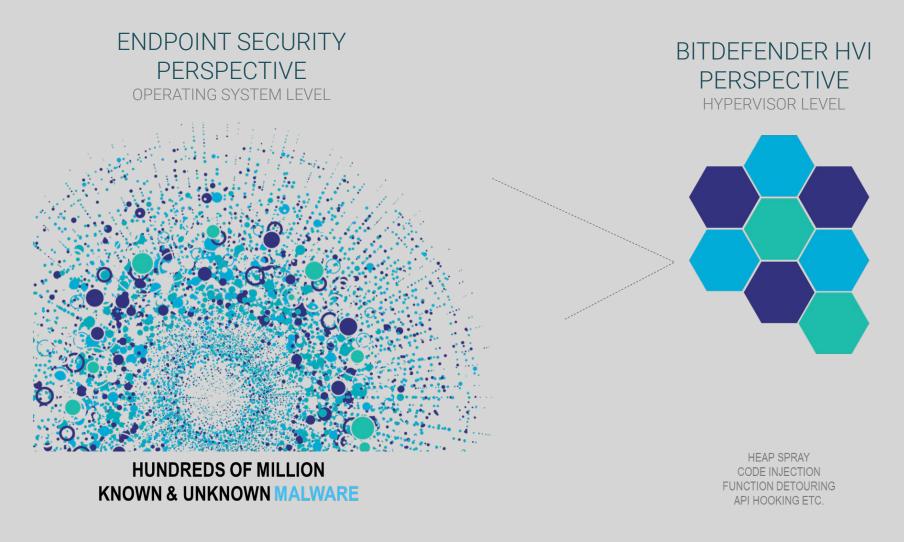
True Agentless Memory Protection



HYPERVISOR INTROSPECTION

True Agentless Protection





SECURITY FOR MOBILE DEVICES

Detects advanced attacks in real-time and automates alert triage

GRAVITYZONE™

THE SECURITY PLATFORM FOR END-TO-END BREACH AVOIDANCE

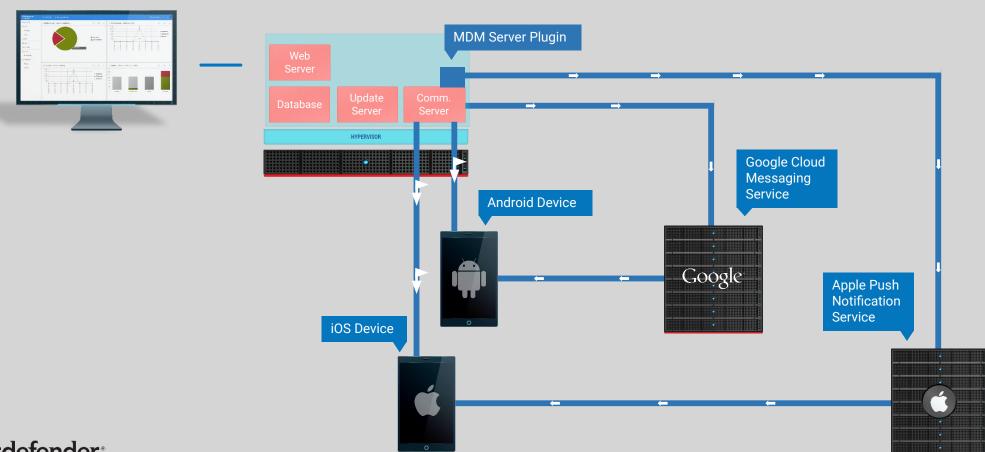
SECURITY FOR MOBILE DEVICES

Provides basic MDM functionalities and security features

FEATURES	Android	iOS
Mobile Device Management		
▼ Screen Lock	✓	•
▼ Authentication Control	✓	•
▼ Device Location	✓	•
▼ Remote Wipe	✓	•
▼ Detection of Rooted or Jailbroken Devices	✓	•
▼ Security Profiles	✓	•
Security		
▼ Antimalware	V	
▼ Removable Media Encryption	V	

SECURITY FOR MOBILE DEVICES

Communication Workflow



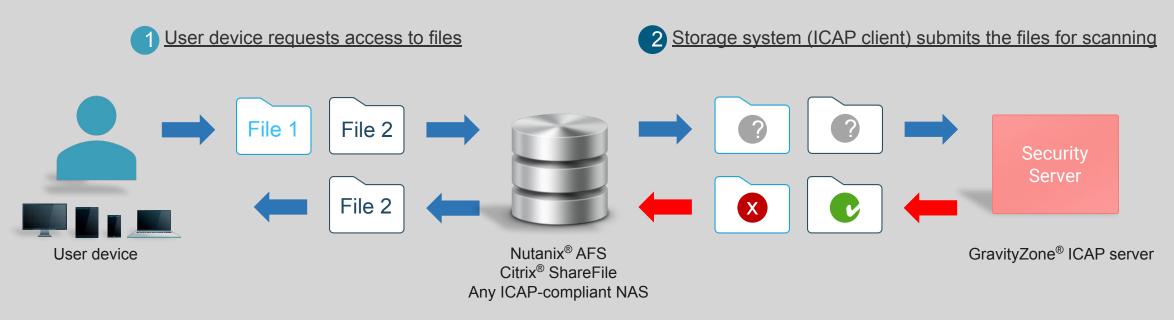
Protects ICAP-compliant NAS and file-sharing solutions

Managed by GravityZone Control Center

- Real-time protection for Citrix ShareFile, Nutanix AFS, and ICAP-compliant NAS (e.g., Dell[®] Compellent[™], Dell EMC[®] Isilon, Hitachi[®] HNAS, HPE[®] 3PAR StoreServ, IBM [®] Storwize, etc.)
 - On-access scanning with configurable automatic actions and exclusions
 - Customizable reporting and real-time notifications



How It Works



4 Storage system only grants access to safe files

3 Security Server (the ICAP server) shares scan results

Compatibility

GravityZone Security for Storage add-on works with:

- GravityZone Advanced Business Security
- GravityZone Elite
- GravityZone Ultra
- GravityZone Enterprise Security

NON suitable for GravityZone Business Security

SANDBOX ANALYZER ON-PREMISE

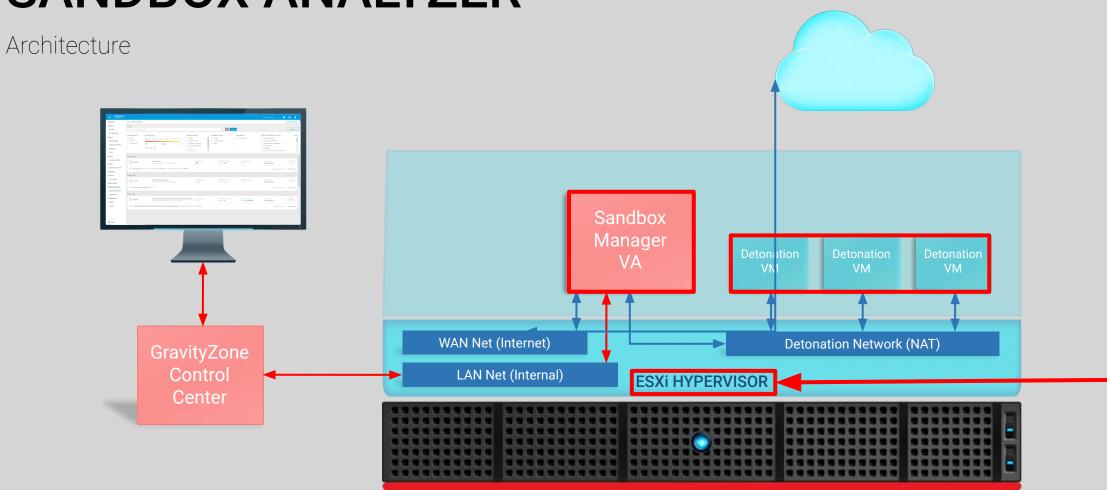
Automated, Al-powered, Integrated

What It Does

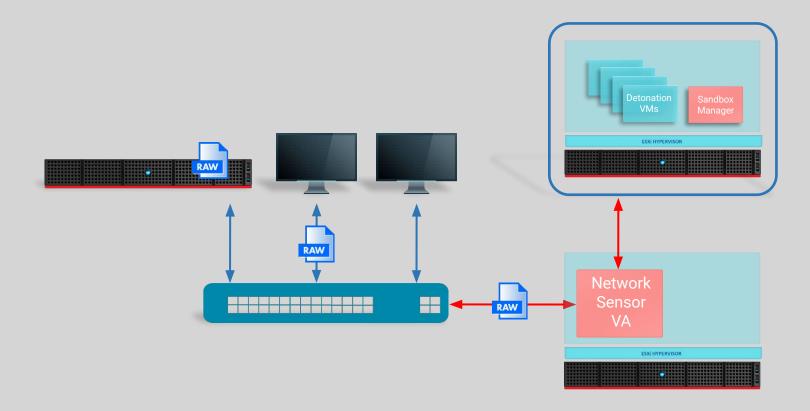
- Records and analyzes all system changes during file execution:
 - File system changes: create, modify, delete, change
 - Registry key changes
 - Process operations: create, terminate, inject
 - API instructions execution
 - Network connections

*You can also manually submit files/URL for analysis form console

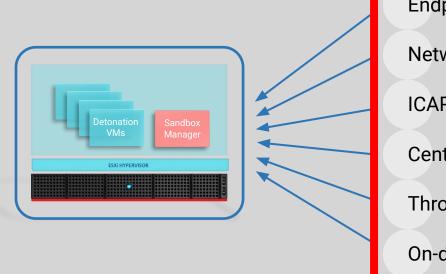




Network Sensor (NSVA)



Submission Options



Endpoint sensor (automatic)

Network sensor (automatic)

ICAP Sensor (automatic)

Central quarantine (automatic)

Through API (automatic or manual)

On-demand submission (manual)

Supported File Types



PE files, 32 bit, 64 bit



Archives: zip, rar, tar, gz, 7-zip etc.



Support for URL detonation using pre-installed browsers



MS Office file-types: doc, docx, pptx, xps, rtf etc.; Adobe Reader pdf etc.



Scripts with support for command line switches

^{△ →} Bitdefender®

^{*} see Partner's Guide, chapter "Sandbox Analyzer Objects

SECURITY FOR EXCHANGE

Top-rated antispam and antimalware for mail servers, ensuring a secure messaging and collaboration environment

GRAVITYZONE™

THE SECURITY PLATFORM FOR
END-TO-END BREACH AVOIDANCE

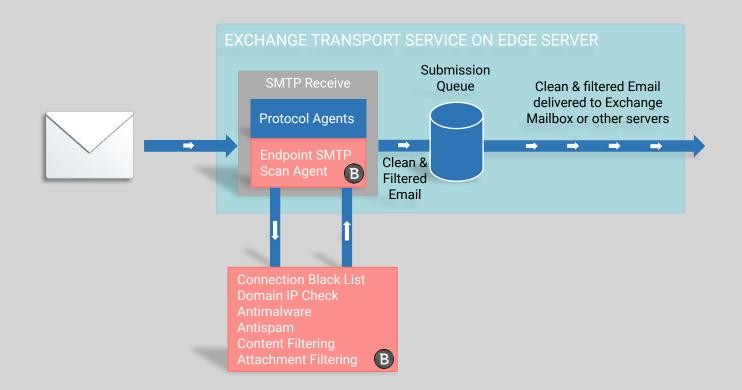
SECURITY FOR EXCHANGE

Features Availability

	Microsoft Exchange 2019 / 2016 / 2013		Microsoft Exchange 2010 / 2017		
FEATURES	Edge	Mailbox	Edge	Hub	Mailbox
TRANSPORT LEVEL					
▼ Antimalware Filtering	✓	✓	✓	✓	
▼ Antispam Filtering	✓	✓	✓	✓	
▼ Content Filtering	✓	✓	✓	✓	
▼ Attachment Filtering	✓	✓	✓	✓	
EXCHANGE STORE					
▼ On-demand Antimalware Scanning		~			~

SECURITY FOR EXCHANGE

Integration With Exchange Transport Service



SECURITY FOR EXCHANGE

Antispam Filtering **FILTERED** INCOMING **MESSAGES MESSAGES** REJECT 550 SPAM SPAM SPAM **SCORE CONNECTION & ANTISPAM FILTERING SPAM** REJECT 550 TAG: SPAM Edge servers only REDIRECT TO: spam@company.com MOVE TO QAUARANTINE OUARANTINE FOLDER Bitdefender® DELETE Hub/Mailbox servers only

EMAIL SECURITY CLOUD

Uses multiple industry-leading engines to provide an outstanding level of protection against known, unknown and emerging email threats

EMAIL SECURITY

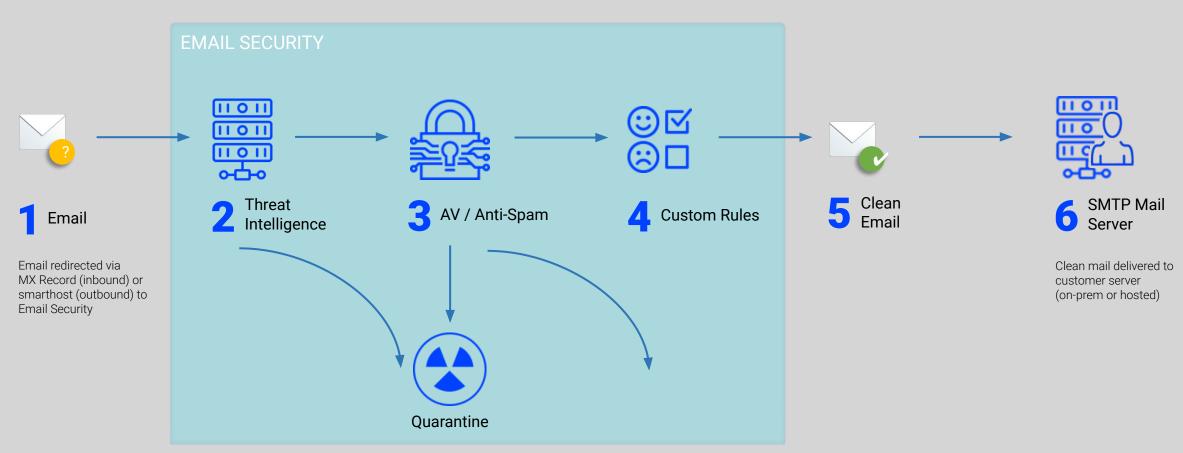
What It Does

- Security combined with a full cloud mail routing engine
- Apply rules based on connection level characteristics
- Over 30 conditions available including direction, sender/recipient, AD attributes, subject, body, headers, attachment size etc.
- Over 25 actions including accept, reject, re-route, add content to subject/body/headers, (quarantine, modify spam score)
- Customisable dictionaries based on patterns and regular expressions



EMAIL SECURITY

How It Works



54 Bitdefender

EMAIL SECURITY

Multi-layered Approach

Executive Tracking List

Detection of real names in external messages, linked to AD group

Threat Intelligence

Domain and IP based risk scoring

Algorithmic Analysis

10,000+ algorithms analyse over 134 message variables (< 200ms)

Message Categorization

Accurate identification of marketing / commercial email

Content Analysis

Lexical analysis of subject and message body (inc. attachments)

Pattern Matching / Message Attribute Analysis

Unsubscribe, donotreply@ address etc.

AV

Multiple signature and behaviour based AV engines (inc. static analysis)

Machine Checks

Sender, Sending Server, Authentication Checks (inc. SPF)

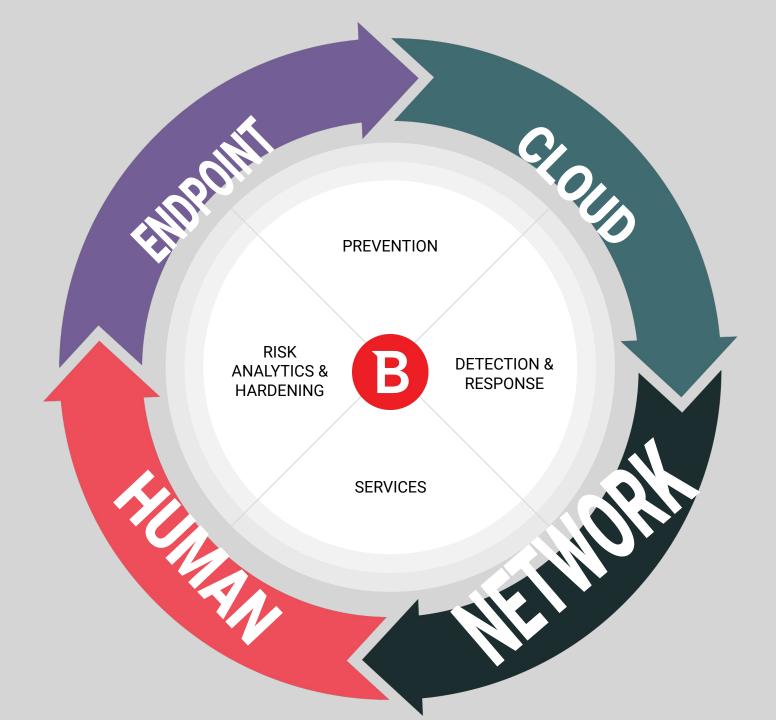


SUMMARY

BITDEFENDER GRAVITYZONE®

THE FIRST UNIFIED SECURITY AND RISK ANALYTICS PLATFORM

Unified Prevention, Detection, Response and Hardening Across Endpoint, Network, Cloud and Human





DEMO

TEST CERTIFICAZIONE



Bitdefender eLearning

https://elearning.bitdefender.com/

Effettuare login con il proprio account personale.

Selezionare (in basso)

English - Business Portfolio Technical Training 2021

Sezione Certification - Final assestment English - Business Portfolio Technical Test 2021

TEST CERTIFICAZIONE risorse

- Queste slide
 GotoWebinar Documenti
- GravityZone Solution Comparison
 https://www.bitdefender.com/business/compare.html
- GravityZone Protection Layers Availability
 https://www.bitdefender.mobi/support/gravityzone-protection-layers-availability-2399.html
- GravityZone User Guides
 https://download.bitdefender.com/business/GravityZoneEnterprise/Current/Documentation/
- GravityZone VA Download
 https://download.bitdefender.com/business/GravityZoneEnterprise/Current/

AHAMGATE Distributore a valore aggiunto





Roberto Novasconi

GRAZIE

Bitdefender®