genugate Virtual

Facts & Features





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High Resistance Firewall

Definition

genugate Virtual combines the rigorous security standards of genugate with the benefits of virtualization. It maintains a consistent security posture by offering advanced application-level-gateway (ALG) functionality for thorough network traffic inspection and control, distinguishing itself in virtual environments with its proven security and reliability.

Typical Use

- Safeguarding internal networks against unauthorized access from outside (e.g. Internet)
- Structuring an intranet to establish domains with different protection schemes
- Protect machine-to-machine communication as security gateway for SOAP and web services

Throughput Volume

Each instance of genugate Virtual offers a throughput capacity of up to 20 Gbit/s for TCP and 7 Gbit/s for UDP. This performance can be linearly scaled by adding additional instances, effectively increasing the total throughput capacity of your network. This flexible scalability allows you to tailor the firewall capabilities precisely to meet the evolving demands of your network infrastructure.

Reasons to Choose genugate Virtual

- Approved for the classification level German VS-NfD
- Genuine application level gateway: separation of data flow and re-establishment of connections (no connection transfers)
- Proxy services for a wide range of protocols (WWW, SMTP, SOAP, SSH, IMAP, etc.)
- Web Application Firewall (WAF)
- Geo-IP filtering for country-based network access control
- Spam and malware protection
- IPv4 and IPv6 support for migration and dualprotocol use
- High availability and increased bandwidth through cluster
- Logging of all network activity
- User-friendly GUI-based administration
- SIEM integration
- Improved TLS security for clients and servers

Service

- Customer service directly from the manufacturer
- Security system management
- Hotline service/update service



Key Benefits of Virtualization

Scalability: Scale your security with genugate Virtual's adaptable design, easily matching your network's evolving needs.

Rapid Deployment: Deploy genugate Virtual quickly within your existing infrastructure, bypassing the complexities of physical setups.

Reduced Physical Footprint: Switch to genugate Virtual for less reliance on physical hardware, saving space and reducing power and costs.

Strong Security: Maintain high security standards with genugate Virtual's powerful application level gateway, ensuring thorough network traffic control.

Streamlined Integration: Easily integrate and manage genugate Virtual within your existing virtual infrastructure using familiar tools.

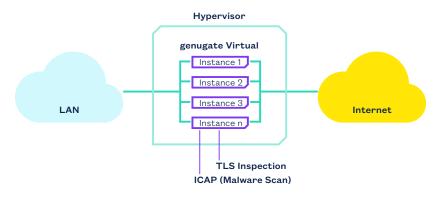
Requirements and Platform Support

Hardware Requirements: For optimal performance, a host with 4 CPU cores and 8 GB RAM is recommended for genugate Virtual.

Supported Virtualization Platforms: Fully compatible for both ESXi and KVM hypervisors, genugate Virtual fits a wide range of IT environments.

Licensing and Scalability: genugate Virtual features flexible, per-instance licensing, allowing you to scale capacity to meet your network's needs, thereby enhancing overall throughput.

Use Case



Scalable Network Security for Sensitive Infrastructures

As an application level gateway, genugate Virtual provides organizations consistent protection for their sensitive infrastructures. As a virtualized solution, it can be dynamically scaled to meet increasing performance requirements. TLS inspection decrypts and inspects encrypted traffic, ensuring data integrity and confidentiality. ICAP support allows seemless integration with the preferred malware scanning solutions.

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Application Level Gateway (ALG)		
Application Level Proxies		
www	Proxy for filtering/scanning web content	
HTTP, HTTPS	Web server protection	
SMTP, SMTPS	E-mail communication	
SOAP	Web service XML validation	
SSH	Secure Shell	
SIP	VoIP	
IMAP, IMAPS	Receive and send e-mail	
FTP, FTPS	File Transfer Protocol	
DNS	Domain Name Service	
Circuit Level Proxies		
ТСР	Generic TCP connections	
TCP + SSL	Encrypted TCP	
UDP	Generic UDP connections	
IP	Generic IP connections	
UDP multicast	Generic UDP multicast	
Ping	Ping (ICMP)	
Stateful Filtering		
Network Address Translation (NAT)	+	
Quality of Service (QoS)	+	
Port forwarding	+	
DoS protection	+	
Packet normalization	+	
Policy filtering	+	
E-Mail		
Modes	Server/Forwarder/Proxy	
Delivery Status Notifi- cation (DSN)	+	
Mail aliases	+	
Maximum size	+	
File extension ACL	+	
MIME type ACL	+	
Redirection of e-mails	+	
Spam Protection		
Relay protection (sender check/blacklist)	+	
Validate sender MX/IP	+	
Pattern blocking	+	
Sender Policy Framework (SPF)	+	
Rating	+	
Greylisting	+	
Real-time Blackhole List (RBL)	+	

Web Filter			
Cloud storage	+		
Conferencing	+		
Remote access	+		
Software updates	+		
Content Filter	www	SSH	FTP
Active content	+	+	+
Request method filter	+	+	+
Malware/Virus Scanning			

ICAP interface for external malware/virus scan integration WWW, FTP, SMTP, IMAP, POP3

www			
URL ACL	+		
Domain ACL	+		
MIME type ACL	+		
Cookie	+		
Websockets	+		
Authentication	www	SSH	FTP
LDAP/LDAP group	+	+	+
Password/local	+	+	+
Radius	+	+	+

Web Application Firewall		
Protection Against Critical Security Risks		
Command injection	Injection flaws such as SQL, NoSQL, OS, and LDAP injection etc.	
Sensitive data exposure	+	
XML external entities (XXE)	+	
Broken access control	+	
Security misconfiguration	+	
Cross-site scripting XSS	+	
Insecure deserialization	+	
Using components with known vulnerabilities	+	

High Availability (HA)	
Automatic configuration distribution	+
Failover	+

More product information



Excellence in Digital Security.

Application Level Gateway (ALG)											
Proxy Settings	www	SSH	FTP	SMTP	IMAP	SOAP	POP3	Ping	тср	UDP	IP
Encryption	+	+	+	+	+	+	+	+	+	-	-
Transparent relay	+	+	+	+	+	+	+	+	+	+	+
Access Control List (ACL)	www	SSH	FTP	SMTP	IMAP	SOAP	POP3	Ping	тср	UDP	IP
Source & Destination Address (IPv4 & IPv6)	+	+	+	+	+	+	+	+	+	+	+
Group authentication	+	+	+	+	-	-	-	-	-	-	-
Time	+	+	+	+	+	+	+	+	+	+	+
Geo-IP	+	+	+	+	+	+	+	+	+	+	+
FQDN Access Control	+	+	+	+	+	+	+	+	+	+	+

Do	nonting	Logging
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Logfile GUI	+
Download logfiles	GUI, scp
External syslog server	+
Elastic stack integration	+
Logstash integration	+
IBM QRadar integration	+
SIEM integration	+
Management summary	+
SNMP v3	+
Statistics	+
Client connection attempts	+
Server connection	+
Closing connection	+
Client request logging	+
Event notifications	E-mail, SNMP

System Management		
User Management		
User profiles	+	
Administrator profiles	+	
Supported languages	German, English	
Administration		
Graphical User Interface (GUI)	+	
Entire cluster manage- ment via primary system	+	
REST-API	+	
Backup		
Configuration backup	Via GUI, SSH, USB stick	
System backup	SSH	
Automated backups	+	
Monitoring		
SNMP	+	
Nagios	+	

Approval by the German Federal Office for Information Security (BSI)	
German VS-NfD	+

Further Information: www.genua.eu/genugate-virtual

genua GmbH

Domagkstrasse 7 | 85551 Kirchheim | Germany +49 89 991950-0 | info@genua.eu | www.genua.eu