Platform Specifications and Features Summary

paloalto NETWORKS

Performance and Capacities[1]	PA-5060	PA-5050	PA-5020	PA-4060	PA-4050	PA-4020	PA-3050	PA-3020
Firewall throughput (App-ID enabled)	20 Gbps	10 Gbps	5 Gbps	10 Gbps	10 Gbps	2 Gbps	4 Gbps	2 Gbps
Threat prevention throughput	10 Gbps	5 Gbps	2 Gbps	5 Gbps	5 Gbps	2 Gbps	2 Gbps	1 Gbps
IPSec VPN throughput	4 Gbps	4 Gbps	2 Gbps	2 Gbps	2 Gbps	1 Gbps	500 Mbps	500 Mbps
New sessions per second	120,000	120,000	120,000	60,000	60,000	60,000	50,000	50,000
Max sessions	4,000,000	2,000,000	1,000,000	2,000,000	2,000,000	500,000	500,000	250,000
IPSec VPN tunnels/tunnel interfaces	8,000	4,000	2,000	4,000	4,000	2,000	2,000	1,000
GlobalProtect (SSL VPN) concurrent users	20,000	10,000	5,000	10,000	10,000	5,000	2,000	1,000
Virtual routers	225	125	20	125	125	20	10	10
Virtual systems (base/max[2])	25/225*	25/125*	10/20*	25/125*	25/125*	10/20*	1/6*	1/6*
Security zones	900	500	80	500	500	80	40	40
Max number of policies	40,000	20,000	10,000	20,000	20,000	10,000	5,000	2,500
Interfaces and Hardware Specifications	**PA-5060**	**PA-5050**	**PA-5020**	**PA-4060**	**PA-4050**	**PA-4020**	**PA-3050**	**PA-3020**
Interfaces supported[3]	(12) 10/100/1000, (8) Gigabit SFP, (4) 10 Gigabit SFP+		(12) 10/100/1000, (8) Gigabit SFP	(4) 10 Gigabit XFP, (4) Gigabit SFP	(16) 10/100/1000, (8) Gigabit SFP		(12) 10/100/1000, (8) Gigabit SFP	
Management I/O	(2) 10/100/1000 high availability, (1) 10/100/1000 out-of-band management, (1) RJ45 console			(2) 10/100/1000 high availability, (1) 10/100/1000 out-of-band management, (1) DB9 console port			(1) 10/100/1000 out-of-band management, (2) 10/100/1000 high availability, (1) RJ-45 console	
Rack mountable?	2U, 19" standard rack			2U, 19" standard rack			1U, 19" standard rack	
Power supply	Redundant 450W AC or DC			Redundant 400W			250W	
Disk drives	120GB or 240GB SSD, RAID Optional			160GB			120GB SSD	
Hot swap power supply	Yes			Yes			No	
Hot swap fans	Yes			No			No	

Performance and Capacities[1]	PA-2050	PA-2020	PA-500	PA-200	VM-Series Virtual Firewall[4]		
					VM-300	VM-200	VM-100
Firewall throughput (App-ID enabled)	1 Gbps	500 Mbps	250 Mbps	100 Mbps	1 Gbps		
Threat prevention throughput	500 Mbps	200 Mbps	100 Mbps	50 Mbps	600 Mbps		
IPSec VPN throughput	300 Mbps	200 Mbps	50 Mbps	50 Mbps	250 Mbps		
New sessions per second	15,000	15,000	7,500	1,000	8,000		
Max sessions	250,000	125,000	64,000	64,000	250,000	100,000	50,000
IPSec VPN tunnels/tunnel interfaces	2,000	1,000	250	25	2,000	500	25
GlobalProtect (SSL VPN) concurrent users	1,000	500	100	25	500	200	25
Virtual routers	10	10	3	3	3	3	3
Virtual systems (base/max[2])	1/6*	1/6*	N/A	N/A	N/A	N/A	N/A
Security zones	40	40	20	10	40	20	10
Max number of policies	5,000	2,500	1,000	250	5,000	2,000	250
Interfaces and Hardware Specifications	**PA-2050**	**PA-2020**	**PA-500**	**PA-200**	**VM-300**	**VM-200**	**VM-100**
Interfaces supported[3]	(16) 10/100/1000, (4) Gigabit SFP	(12) 10/100/1000, (2) Gigabit SFP	(8) 10/100/1000	(4) 10/100/1000	N/A	N/A	N/A
Management I/O	(1) 10/100/1000 out-of-band management, (1) RJ-45 console port		(1) 10/100/1000 out-of-band management, (1) RJ-45 console port		N/A	N/A	N/A
Rack mountable?	1U, 19" standard rack		1U, 19" standard rack	1.75" H x 7"D x 9.25"	N/A	N/A	N/A
Power supply	250W		180W	40W	N/A	N/A	N/A
Disk drives	160GB		160GB	16GB SSD	N/A	N/A	N/A
Hot swap power supply	No		No	No	N/A	N/A	N/A
Hot swap fans	No		No	No	N/A	N/A	N/A
Virtualization Specifications					**VM-300**	**VM-200**	**VM-100**
HyperVisor	N/A				VMware ESXi 4.1 and ESXi 5.0		
Network driver	N/A				VMXNet3		
Dedicated CPU cores	N/A				2, 4 or 8		
Dedicated Memory (Minimum)	N/A				4GB		
Dedicated Disk drive capacity (Min/Max)	N/A				40GB/2TB		

1) Performance and capacities are measured under ideal testing conditions with App-ID enabled and PAN-OS 5.0.
2) Adding virtual systems to the base quantity requires a separately purchased license.
3) SFP, SFP+ and XFP transceivers are sold separately.
4) VM-Series performance and capacities are measured under ideal testing conditions with App-ID enabled and PAN-OS 5.0 using 4 CPU cores.

Platform Specifications and Features Summary

Key Features	Supported Across All Platforms
Firewall	
Applications identified (App-IDs)	1,530+
Customizable App-IDs	✔
Policy-based control by user, group or IP address, application, application category, subcategory, technology, risk factor or characteristic	✔
Scheduled policies	✔
Per policy SSL decryption & inspection (inbound and outbound)/Per policy SSH control (inbound and outbound)	✔
IPSec VPN (site-to-site) and SSL VPN (GlobalProtect)	✔
User control: Active Directory, LDAP, eDirectory, Exchange, Citrix and Microsoft Terminal Services, XML API (User-ID)	✔
Threat Prevention (Subscription Required)	
Stream-based protection against viruses (including those embedded in HTML, Javascript, PDF and compressed), spyware, worms	✔
Drive-by download protection	✔
Behavioral botnet detection	✔
WildFire Modern Malware Protection	
Sand box-based detection of unknown malware	✔
Automated signature generation for discovered malware	✔
Inline control of malware infection, and command/control traffic	✔
URL Filtering (Subscription Required)	
76-Category/20 million URL on-box customizable database	✔
Customizable allow, block lists and block pages	✔
Custom categories	✔
File and Data Filtering	
Bidirectional control over the unauthorized transfer of more than 60 file types	✔
Bidirectional control over the transfer of Social Security Numbers, Credit Card Numbers, custom data patterns	✔
QoS	
Policy-based traffic shaping (priority, guaranteed, maximum) per application, per user, per tunnel and more	✔
Policy-based diffserv marking	✔
VPN Connectivity	
GlobalProtect (SSL VPN)	✔
IPSec VPN (Site-to-Site)	✔
GlobalProtect (Subscription Required)	
GlobalProtect Gateway	✔
GlobalProtect Portal	✔
Host information profile	✔
Networking	
Dynamic routing (BGP, OSPF, RIP)	✔
Tap mode, virtual wire, layer 2, and layer 3	✔
802.1Q VLAN tagging (layer 2, layer 3)	✔
Network address translation (NAT)	✔
DHCP server/ DHCP relay (up to 3 servers)	✔
IPv6 L2, L3, tap, virtual wire (transparent mode), App-ID, User-ID, Content-ID, WildFire and SSL decryption	✔
Multicast	✔
High Availability	
Active/Active, Active/Passive	✔ (PA-200 and VM-Series HA Lite only)
Configuration and session synchronization	✔
Interface and IP tracking	✔
Link and path failure monitoring	✔
Management and Visibility Tools	
Integrated web interface, CLI and centralized management (Panorama)	✔
Shared policies and objects (Panorama)	✔
Role-based administration (Individual Device or Panorama)	✔
Syslog and SNMPv2/v3	✔
XML-based REST API	✔
Graphical summary of applications, URL categories, threats and data (ACC)	✔
View, filter, export traffic, threat, URL, and data filtering logs	✔
Fully customizable reporting	✔