

VM-300



VM-100



VM-50



Feature

Performance

**Performance and capacities are measured under ideal testing conditions using PAN-OS .0. Additionally, for VM models please refer to hypervisor, cloud specific data sheet for associated performance*

Feature	VM-300	VM-100	VM-50
App-ID firewall throughput	4 Gbps	2 Gbps	200 Mbps
Threat prevention throughput	2 Gbps	1 Gbps	100 Mbps
IPSec VPN throughput	In progress	In progress	In progress
Connections per second	30,000	15,000	3,000

Sessions

Feature	VM-300	VM-100	VM-50
Max sessions (IPv4 or IPv6)	819,200	250,000	64,000

Policies

Feature	VM-300	VM-100	VM-50
Security rules	10,000	1,500	250
Security rule schedules	256	256	256
NAT rules	5,000	3,000	400
Decryption rules	1,000	1,000	100
App override rules	1,000	1,000	100
QoS rules	1,000	1,000	100
Tunnel content inspection rules	500	100	100
Policy based forwarding rules	500	100	100
Captive portal rules	1,000	1,000	10
DoS protection rules	1,000	1,000	100

Security Zones

Feature	VM-300	VM-100	VM-50
Max security zones	40	40	15

Objects (addresses and services)

Feature	VM-300	VM-100	VM-50
Address objects	10,000	10,000	2,500
Address groups	1,000	1,000	125
Members per address group	2,500	2,500	2,500
Service objects	2,000	2,000	1,000

Service groups	500	500	250
Members per service group	500	500	500
FQDN address objects	2,000	2,000	2,000
Max IP addresses registered per system <i>*Applies to IP addresses registered to dynamic address groups</i>	100,000	2,500	1,000
Tags per IP address	32	32	32
Security Profiles			
Security profiles	375	375	38
App-ID			
Custom App-ID signatures	6,000	6,000	6,000
Shared custom App-IDs	512	512	512
Custom App-IDs (virtual system specific)	6,416	6,416	6,416
User-ID			
User-IP mappings (management plane)	512,000	512,000	512,000
User-IP mappings (data plane)	64,000	64,000	64,000
Active and unique groups used in policy	1,000	1,000	1,000
Number of agents	100	100	100
Monitored servers per agent	100	100	100
Maximum terminal services agents	400	400	400
SSL Decryption			
Max SSL inbound certificates	25	25	25
SSL certificate cache (forward proxy)	128	128	128
Max concurrent decryption sessions	1,024	1,024	1,024
URL Filtering			
Total entries for allow list, block list and custom categories	25,000	25,000	25,000
Max custom categories	2,849	2,849	2,849
Max custom categories (virtual system specific)	500	500	500
Dataplane cache size for URL filtering	40,000	10,000	5,000
Management plane dynamic cache size	1,000,000	1,000,000	1,000,000
Interfaces			
Mgmt - out-of-band	NA	NA	NA
Mgmt - 10/100/1000 high availability	NA	NA	NA
Mgmt - 40Gbps high availability	NA	NA	NA

Traffic - 10/100/1000	NA	NA	NA
Traffic - 100/1000/10000	NA	NA	NA
Traffic - 1Gbps SFP	NA	NA	NA
Traffic - 10Gbps SFP+	NA	NA	NA
Traffic - 10Gbps XFP	NA	NA	NA
Traffic - 40Gbps QSFP	NA	NA	NA
802.1q tags per device	4,094	4,094	4,094
802.1q tags per physical interface	4,094	4,094	4,094
Max interfaces (logical and physical)	2,048	2,048	512
Maximum aggregate interfaces	NA	NA	NA

Virtual Routers

Virtual routers	10	3	3
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Virtual Wires

Virtual wires	1,024	1,024	256
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Virtual Systems

Base virtual systems	1	1	1
Max virtual systems	NA	NA	NA
<i>*Additional licenses are required for virtual system capacities above the base virtual systems capacity</i>			

Routing

IPv4 forwarding table size <i>*Entries shared across virtual routers</i>	10,000	2,500	2,500
IPv6 forwarding table size <i>*Entries shared across virtual routers</i>	10,000	2,500	2,500
System total forwarding table size	20,000	5,000	5,000
Max route maps per virtual router	50	50	50
Max routing peers (protocol dependent)	500	500	500
Static entries - DNS proxy	1,024	1,024	1,024
Bidirectional Forwarding Detection (BFD) Sessions	512	128	NA

L2 Forwarding

ARP table size per device	2,500	500	1,500
IPv6 neighbor table size	1,000	500	1,500
MAC table size per device	2,500	500	1,500
Max ARP entries per broadcast domain	2,500	500	1,500
Max MAC entries per broadcast domain	2,500	500	1,500

NAT

Total NAT rule capacity	5,000	3,000	400
Max NAT rules (static) <i>*Configuring static NAT rules to full capacity requires that no other NAT rule types are used.</i>	5,000	3,000	400
Max NAT rules (DIP) <i>*Configuring DIP NAT rules to full capacity requires that no other NAT rule types are used.</i>	3,000	2,000	400
Max NAT rules (DIPP)	800	400	200
Max translated IPs (DIP)	128,000	128,000	16,000
Max translated IPs (DIPP) <i>*DIPP translated IP capacity is proportional to the DIPP pool oversubscription value. The capacity shown here is based on an oversubscription value of 1x.</i>	800	400	200
Default DIPP pool oversubscription <i>*Source IP and source port reuse across concurrent sessions</i>	2	2	2

Address Assignment

DHCP servers	10	5	3
Max number of assigned addresses	64,000	64,000	64,000

High Availability

Devices per cluster	2	2	2
Max virtual addresses	128	128	32

QoS

Number of QoS policies	1,000	100	100
Physical interfaces supporting QoS	6	4	8
Clear text nodes per physical interface	31	31	31
DSCP marking by policy	Yes	Yes	Yes
Subinterfaces supported	NA	NA	NA

IPSec VPN

Site to site	2,000	1,000	250
Max IKE Peers	1,000	1,000	250

GlobalProtect Client VPN

Max tunnels (SSL, IPSec, and IKE with XAUTH)	2,000	500	250
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GlobalProtect Clientless VPN

Max SSL tunnels	500	125	50
Multicast			
Replication (egress interfaces)	100	100	100
Routes	2,000	2,000	500
Product Notes			
End-of-sale	NA	NA	NA