

Barracuda CloudGen Firewall F-Series

Protect cloud-connected users, network workloads, and devices wherever they reside.

As you integrate public-cloud platforms and environments into your network, your firewalls must go beyond perimeter security and serve as the linchpins of your IT communications flow, ensuring reliable, cost-effective connections. Barracuda CloudGen Firewall was designed to optimize the performance, security, and availability of today's dispersed enterprise SD-WANs.

Barracuda CloudGen Firewall combines a complete security stack, powerful SD-WAN capabilities, and simple centralized management for hundreds or thousands of firewalls. Zero-touch hardware deployment and native cloud integration get you up and running quickly and easily in any environment.



Full next-generation security

Barracuda CloudGen Firewall is built to provide comprehensive, next-generation firewall protection. Firewalling, IPS, URL filtering, dual antivirus, and application control take place in the data path. Sandboxing and other resource-intensive tasks are offloaded seamlessly to the cloud. All platforms and models include the same comprehensive security feature-set.

Secure SD-WAN connectivity

In the cloud era, you need to connect branch offices with the cloud directly and securely. Connecting through a single, central gateway is costly and renders cloud based applications unresponsive. Optimized direct internet uplink selection ensures fast cloud-hosted SaaS applications. CloudGen Firewall lets you replace costly MPLS connections with up to 24 bonded broadband connections per VPN tunnel for increased application performance and built-in redundancy.

Cloud automation

The big advantage of going to the cloud is greater agility and flexibility. This requires high degrees of automation. All components, including the infrastructure for security and connectivity, need to adapt to the way this works. CloudGen Firewall provides fully automated protection across multi-cloud deployments, including VPN automation across multiple cloud providers, on-site and virtual.

Technical specs

Firewall

- Stateful packet inspection and forwarding
- Full user-identity awareness
- IDS/IPS
- Application control and granular application enforcement
- Interception and decryption of SSL/TLS encrypted applications
- Antivirus and web filtering in single pass mode
- Email security
- SafeSearch enforcement
- Google Accounts Enforcement
- Denial of Service protection (DoS/DDoS)
- Spoofing and flooding protection
- ARP spoofing and trashing protection
- DNS reputation filtering
- NAT (SNAT, DNAT), PAT
- Dynamic rules / timer triggers
- Single object-oriented rule set for routing, bridging, and routed bridging
- Virtual rule test environment

Protocol support

- IPv4, IPv6
- BGP/OSPF/RIP
- VoIP (H.323, SIP, SCCP [skinny])
- RPC protocols (ONC-RPC, DCE-RPC)
- 802.1q VLAN
- Industrial protocols and subprotocols (S7, IEC 60870-5-104, IEC 61850, MODBUS, DNP3)

Intrusion detection and prevention

- Protection against exploits, threats and vulnerabilities
- Packet anomaly and fragmentation protection
- Advanced anti-evasion and obfuscation techniques
- Automatic signature updates

Infrastructure services

- DHCP server, relay
- SIP and HTTP proxies
- SNMP and IPFIX support
- JSON lifecycle automation API
- Auto VPN via API and script control
- Authoritative DNS server
- DNS server
- DNS cache
- Wi-Fi (802.11n) on selected models
- Built-in support for Azure Virtual WAN

VPN

- Drag & drop VPN tunnel configuration
- Network access control
- iOS and android mobile device VPN support
- Two-factor authentication via time-based one-time passwords (TOTP), Radius, or RSA MFA (requires an active Advanced Remote Access subscription) for VPN and NAC clients
- Multi-factor authentication for SSL VPN and CudaLaunch

Advanced threat protection

- Dynamic, on-demand analysis of malware programs (sandboxing)
- Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)
- Detailed forensic analysis
- Botnet and spyware protection
- TypoSquatting and link protection for email

High Availability

- Active-passive
- Transparent failover without session loss
- Encrypted HA communication

Central management options via Barracuda Firewall Control Center

- Administration for unlimited firewalls
- Support for multi-tenancy
- Multi-administrator support & RCS
- Zero-touch deployment
- Enterprise/MSP licensing
- Template & repository-based management
- REST API

Traffic intelligence & SD-WAN

- Optimized direct internet uplink selection
- VPN-based SD-WAN
- Simultaneous use of multiple uplinks (transports) per VPN tunnel
- FIPS 140-2 certified cryptography
- On-demand direct VPN tunnel creation between remote spoke locations based on application type
- Dynamic bandwidth detection
- Performance-based transport selection
- Application-aware traffic routing
- Adaptive session balancing across multiple uplinks
- Traffic replication (forward error correction)
- Application-based provider selection
- Application-aware traffic routing (VPN)
- Traffic shaping and QoS
- Built-in data deduplication

Support options

Barracuda Energize Updates

- Standard technical support
- Firmware updates
- IPS signature updates
- Application control definition updates
- Web filter updates

Instant Replacement Service

- Replacement unit shipped next business day
- 24/7 technical support
- Free hardware refresh every four years

Available subscriptions

Barracuda Firewall Insights

Consolidates security, application flow, and connectivity information from hundreds or even thousands of firewalls on the extended wide area network – regardless of whether they are hardware, virtual, or cross-cloud-based deployments.

Malware Protection

Provides gateway-based protection against malware, viruses, spyware, and other unwanted programs inside SMTP/S, HTTP/S, and FTP/S traffic.

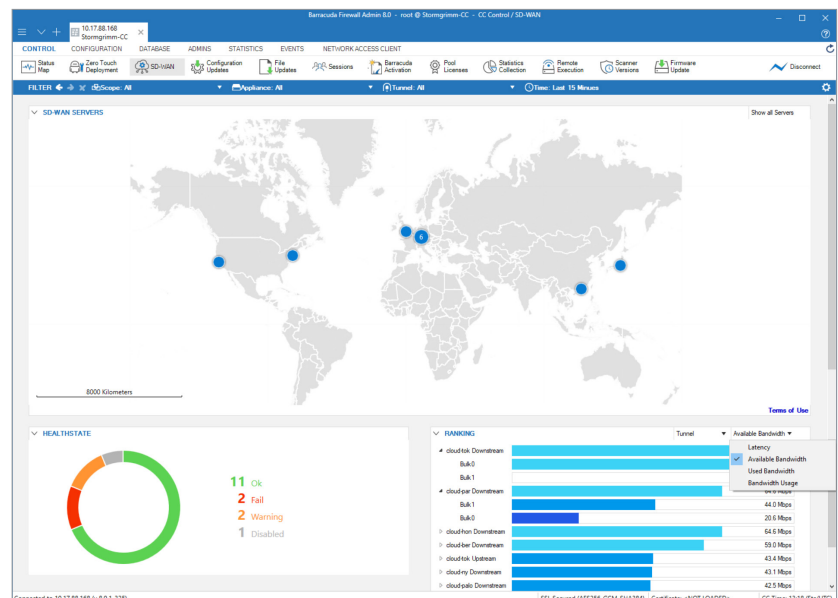
Advanced Threat Protection

Prevents from network breaches, identifies zero-day malware exploits, targeted attacks, advanced persistent threats and other advanced malware.

Advanced Remote Access

Provides a customizable and easy-to-use portal-based SSL VPN as well as sophisticated network access control (NAC) functionality and CudaLaunch support.

Barracuda CloudGen Firewall's SD-WAN dashboard provides real-time information and summaries of what is going on in an organization's network.



Basic features

| | ENTRY AND BRANCH OFFICE | MID-RANGE | HIGH-END |
|--------------------------------------|-------------------------|-----------|-----------|
| Firewall incl. IPS | ✓ | ✓ | ✓ |
| Application control | ✓ | ✓ | ✓ |
| Dynamic routing | ✓ | ✓ | ✓ |
| Application-based provider selection | ✓ | ✓ | ✓ |
| SSL interception | ✓ | ✓ | ✓ |
| SD-WAN | ✓ | ✓ | ✓ |
| Web filter | ✓ | ✓ | ✓ |
| Zero-touch deployment | ✓ | ✓ | ✓ |
| Client-to-site and site-to-site VPN | Unlimited | Unlimited | Unlimited |

Optional features

| | ENTRY AND BRANCH OFFICE | MID-RANGE | HIGH-END |
|----------------------------|-------------------------|-----------|----------|
| Firewall Insights | Optional | Optional | Optional |
| Advanced threat protection | Optional | Optional | Optional |
| Malware protection | Optional ¹ | Optional | Optional |
| Advanced remote access | Optional ² | Optional | Optional |

Entry & branch office models

| | F12 | F18 | F80B | F82.DSLA | F180 | F183 | F183R | F280 |
|---|------------------|------------------|------------------|-------------------|------------------|------------------|-------------------|------------------|
| PERFORMANCE | | | | | | | | |
| Firewall throughput ³ | 1.2 Gbps | 1.0 Gbps | 2.0 Gbps | 1.5 Gbps | 1.7 Gbps | 2.0 Gbps | 2.1 Gbps | 3.7 Gbps |
| VPN throughput ⁴ | 220 Mbps | 190 Mbps | 720 Mbps | 240 Mbps | 300 Mbps | 300 Mbps | 320 Mbps | 1.1 Gbps |
| IPS throughput ⁵ | 400 Mbps | 400 Mbps | 600 Mbps | 400 Mbps | 500 Mbps | 580 Mbps | 790 Mbps | 1.2 Gbps |
| NGFW throughput ⁶ | 250 Mbps | 340 Mbps | 400 Mbps | 400 Mbps | 550 Mbps | 700 Mbps | 800 Mbps | 1.0 Gbps |
| Threat protection throughput ⁷ | 230 Mbps | 320 Mbps | 380 Mbps | 380 Mbps | 480 Mbps | 600 Mbps | 700 Mbps | 900 Mbps |
| Concurrent sessions | 80,000 | 80,000 | 80,000 | 80,000 | 100,000 | 100,000 | 100,000 | 250,000 |
| New session/s | 8,000 | 8,000 | 12,000 | 8,000 | 9,000 | 9,000 | 9,000 | 10,000 |
| HARDWARE | | | | | | | | |
| Form factor | Compact | Desktop | Desktop | Desktop | Desktop | Desktop | Compact, DIN rail | Desktop |
| Copper ethernet NICs [GbE] | 5x1 | 4x1 | 5x1 | 4x1 | 6x1 | 6x1 | 5x1 | 6x1 |
| Fiber ethernet NICs (SFP) [GbE] | - | - | - | 1x1 | - | 2x1 | 2x1 | - |
| Integrated switch | - | - | - | - | 8-port | - | - | 8-port |
| Integrated modem | - | - | - | DSL Annex A, RJ11 | - | - | - | - |
| Wi-Fi access point | - | - | ✓ | ✓ | ✓ | ✓ | - | ✓ |
| Power supply | Single, external | Single, external | Single, external | Single, external | Single, external | Single, external | Phoenix 6-pin | Single, external |

Mid-range models

| | F380 | F400 SUBMODELS | | F600D SUBMODELS | | | | |
|---|------------------|------------------|----------------|------------------|----------------|------------------|----------------|----------------|
| | | STD | F20 | C10 | C20 | F10 | F20 | E20 |
| PERFORMANCE | | | | | | | | |
| Firewall throughput ³ | 5.2 Gbps | 7.1 Gbps | 9.0 Gbps | 15 Gbps | | 15 Gbps | 20 Gbps | |
| VPN throughput ⁴ | 1.4 Gbps | 2.3 Gbps | 2.3 Gbps | 3.8 Gbps | 3.8 Gbps | | 6.8 Gbps | |
| IPS throughput ⁵ | 2.0 Gbps | 2.8 Gbps | 3.0 Gbps | 4.8 Gbps | 4.8 Gbps | | 8.0 Gbps | |
| NGFW throughput ⁶ | 1.4 Gbps | 2.2 Gbps | 3.0 Gbps | 4.2 Gbps | 4.2 Gbps | | 6.4 Gbps | |
| Threat protection throughput ⁷ | 1.2 Gbps | 2.0 Gbps | 2.7 Gbps | 4.0 Gbps | 4.0 Gbps | | 5.8 Gbps | |
| Concurrent sessions | 400,000 | 500,000 | 500,000 | 2,100,000 | | 2,100,000 | | 2,100,000 |
| New session/s | 15,000 | 20,000 | 20,000 | 115,000 | | 115,000 | | 115,000 |
| HARDWARE | | | | | | | | |
| Form factor | 1U rack mount | 1U rack mount | | 1U rack mount | | | | |
| Copper ethernet NICs [GbE] | 8x1 | 8x1 | 8x1 | 18x1 | 18x1 | 10x1 | 10x1 | 10x1 |
| Fiber ethernet NICs (SFP) [GbE] | - | - | 4x1 | - | - | 8x1 | 8x1 | 8x1 |
| Fiber ethernet NICs (SFP+) [GbE] | - | - | - | - | - | - | - | 2x10 |
| Power supply | Single, internal | Single, internal | Dual, hot swap | Single, internal | Dual, hot swap | Single, internal | Dual, hot swap | Dual, hot swap |

High-end models

| | F800 SUBMODELS | | | F900 SUBMODELS | | | | F1000 SUBMODELS | | | |
|---|----------------|------|------|----------------|------|-----------|------|-----------------|------|------------|------|
| | CCC | CCF | CCE | CCC | CCE | CFE | CFEQ | CE0 | CE2 | CFE | CFEQ |
| PERFORMANCE | | | | | | | | | | | |
| Firewall throughput ³ | 30 Gbps | | | 35 Gbps | | 45 Gbps | | 40 Gbps | | 46 Gbps | |
| VPN throughput ⁴ | 7.5 Gbps | | | 9.3 Gbps | | 13.5 Gbps | | 10 Gbps | | 10.3 Gbps | |
| IPS throughput ⁵ | 8.3 Gbps | | | 11.3 Gbps | | 13 Gbps | | 13 Gbps | | 14 Gbps | |
| NGFW throughput ⁶ | 7.7 Gbps | | | 8.0 Gbps | | 12 Gbps | | 10.2 Gbps | | 13 Gbps | |
| Threat protection throughput ⁷ | 7.6 Gbps | | | 8.0 Gbps | | 11.5 Gbps | | 4.0 Gbps | | 12 Gbps | |
| Concurrent sessions | 2,500,000 | | | 4,000,000 | | 4,000,000 | | 10,000,000 | | 10,000,000 | |
| New session/s | 180,000 | | | 190,000 | | 190,000 | | 250,000 | | 250,000 | |
| HARDWARE | | | | | | | | | | | |
| Form factor | 1U rack mount | | | 1U rack mount | | | | 2U rack mount | | | |
| Copper ethernet NICs [GbE] | 24x1 | 16x1 | 16x1 | 32x1 | 16x1 | 8x1 | 8x1 | 16x1 | 32x1 | 16x1 | 16x1 |
| Fiber ethernet NICs (SFP) [GbE] | - | 8x1 | - | - | - | 8x1 | 8x1 | - | - | 16x1 | 16x1 |
| Fiber ethernet NICs (SFP+) [GbE] | - | - | 4x10 | - | 8x10 | 8x10 | 4x10 | 4x10 | 8x10 | 8x10 | 6x10 |
| Fiber ethernet NICs (QSFP+) [GbE] | - | - | - | - | - | - | 2x40 | - | - | - | 2x40 |
| Power supply | Dual hot swap | | | Dual hot swap | | | | Dual hot swap | | | |

All performance values are measured under optimized conditions and are to be considered as "up to" values and may vary depending on system configuration and infrastructure:

¹ For model F12, malware protection utilizes cloud-based malware protection as part of an active Advanced Threat Protection subscription.

² For model F12, this feature is not available.

³ Firewall throughput measured with large packets (MTU1500) UDP packets, bi-directional across multiple ports, utilizing highest available port density.

⁴ VPN performance is based on 1415 Byte UDP packets, bidirectional using BreakingPoint traffic generator.

⁵ IPS throughput is measured using large packets (MTU1500) UDP traffic and across multiple ports, utilizing highest available port density.

⁶ NGFW throughput is measured with IPS, application control, and web filter enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports, utilizing highest available port density.

⁷ Threat protection throughput is measured with IPS, application control, web filter, antivirus, and SSL inspection enabled, based on BreakingPoint Realworld-IPS-Enterprise-Traffic-Mix, bidirectional across multiple ports.

Specifications subject to change without notice.

