

Barracuda NextGen Firewall F

Protecting your Digital Assets in Amazon Web Services



The growth in cloud computing capabilities and services has driven more data into places where traditional IT security measures cannot reach - into data centers not owned by your corporate IT group. Beyond its powerful network firewall, IPS, and VPN technologies, the Barracuda NextGen Firewall F-Series integrates a comprehensive set of **next-generation firewall technologies, including comprehensive Application Control, Availability, and Quality of Services (QoS) features.**

- ✓ Security
- Storage
- Application Delivery
- Productivity

The Barracuda Advantage

- Secure and reliable connectivity between on-premises and Amazon Web Services deployments
- Granular Application Control
- Full User Awareness
- Central management of all functionality for both, on-premises and Amazon Web Services deployments
- Unrivaled Quality of Service capabilities

Product Spotlight

- Powerful next-generation network firewall
- Advanced Threat Detection
- Built-in web security and IDS/IPS
- Client-to-Site VPN via browser (SSL VPN), mobile apps and desktop VPN clients
- Full application visibility and granular control
- Intelligent traffic regulation including application-based provider selection
- Tightly integrated Quality of Service (QoS) and link balancing
- Centralized management of all functionality
- Template-based and role-based configuration



Granular Application Control

The Barracuda NextGen Firewall F-Series gives administrators granular control over applications, allowing them to define rules for forwarding data traffic using the best respective transmission channels based on type of application, user, content, time of day, and geographical location. The Barracuda NextGen Firewall F-Series allows organizations to prioritize traffic by limiting or restricting access to non-business-related applications and network traffic, even when encrypted.



Central Management

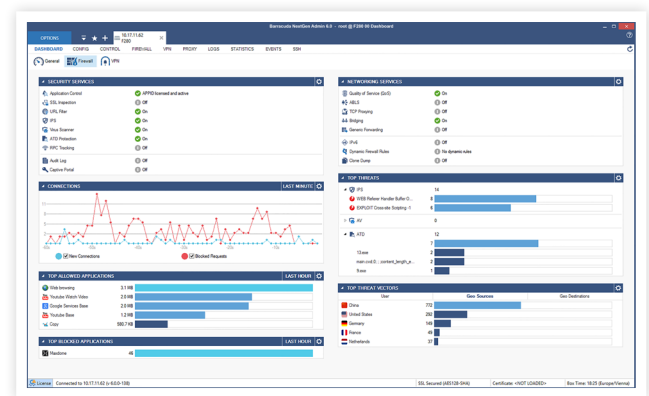
The Barracuda NextGen Firewall F-Series benefits of the same industry-leading single-pane-of-glass central management as on-premises deployments do. Easily manage the secure VPN connections to, from, and within Amazon Web Services and the Barracuda NextGen Firewall F-Series deployment itself.



Integrated Next-Generation Security and Connectivity

The Barracuda NextGen Firewall F-Series Intrusion Detection and Prevention System (IDS/IPS) strongly enhances network security by providing complete and comprehensive real-time network protection against a broad range of network threats, vulnerabilities, exploits, and exposures in operating systems, applications, and databases preventing network attacks such as SQL injections and arbitrary code executions.

The F-Series incorporates advanced site-to-site and client-to-site VPN capabilities, using both SSL and IPsec protocols to ensure remote users can easily and securely access network resources without complex client configuration and management.



The Barracuda NextGen Firewall F-Series dashboard provides real-time information and summaries of what is going on in an organization's network.



Technical Specs

Firewall

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

User Identity Awareness

- Terminal Server Agent
- Domain Controller Agent
- Authentication – supports x.509, NTLM, RADIUS, RSA SecurID, LDAP/LDAPS, Active Directory, TACACS+, SMS Passcode (VPN), local authentication database

Intrusion Detection & Prevention

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

Traffic Optimization

- Link monitoring, aggregation, and failover
- Dynamic routing
- Application-based provider selection
- Traffic shaping and QoS
- On-the-fly flow reprioritization
- Stream and packet compression
- Byte-level data deduplication
- WAN optimization (SMBv2)

VPN

- Drag & drop VPN tunnel configuration
- Secure site-to-site, client-to-site VPN
- Supports AES-128/256, 3DES, DES, null ciphers
- Private CA or external PKI
- IPsec VPN / SSL VPN
- VPNC certified (basic interoperability)
 - Application-aware traffic routing
- PPTP / L2TP (IPSec)
- Network Access Control
- iOS and Android mobile device VPN support

Central Management Options

- Barracuda NextGen Control Center
 - Central administration of unlimited F-Series Firewalls
 - Support for multi-tenancy
 - Multi-administrator support & RCS

Advanced Threat Detection

- Dynamic, on-demand analysis of malware programs (sandboxing)
- Dynamic analysis of documents with embedded exploits (PDF, Office, etc.)
- Detailed forensics for both, malware binaries and web threats (exploits)
- Support for multiple operating systems (Windows, Android, etc.)
- Flexible malware analysis in the cloud

Infrastructure Services

- DHCP server, relay
- SIP, HTTP, SSH, FTP proxies
- SNMP and IPFIX support
- DNS Cache
- SMTP gateway and SPAM filter

Protocol Support

- IPv4, IPv6, ARP
- BGP/OSPF/RIP
- VoIP (H.323, SIP, SCCP [skinny])
- RPC protocols (ONC-RPC, DCE-RPC)
- 802.1q VLAN

BARRACUDA NEXTGEN FIREWALL F-SERIES	AMAZON WEB SERVICES - COMPUTE INSTANCE NAME			
	T2.SMALL	C3.MEDIUM	C3.XLARGE	C3.XLARGE
CAPABILITIES	Level 2	Level 4	Level 6	Level 8
Virtual Cores	1	2	4	8
Max Number of Interfaces	2	2	4	4
Firewall Throughput	400 Mbps	2 Gbps	5 Gbps	9 Gbps
VPN Throughput	120 Mbps	500 Mbps	1 Gbps	1.5 Gbps
IPS Throughput	80 Mbps	900 Mbps	2.5 Gbps	3 Gbps
Concurrent Sessions	35,000	300,000	500,000	1,000,000
New Session/s	2,500	16,000	35,000	45,000
FEATURES				
Firewall	●	●	●	●
Application Control	●	●	●	●
IPS	●	●	●	●
VPN (Site-to-Site and Client-to-Site)	●	●	●	●
SSL Interception	●	●	●	●
WAN Optimization	●	●	●	●
Network Access Control for VPN client-to-site connections	●	●	●	●
Malware Protection	Optional	Optional	Optional	Optional
Advanced Threat Detection	Optional	Optional	Optional	Optional
Premium Remote Access ¹	Optional	Optional	Optional	Optional
Premium Support ²	-	-	●	●

¹ Basic Remote Access is included in Energize Updates.

² Premium Support ensures that an organization's network is running at its peak performance by providing the highest level of 24x7 technical support for mission-critical environments. Specifications subject to change without notice. For more information please visit <https://www.barracuda.com/support/premium>.

Support Options Barracuda Energize Updates

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