

Barracuda CloudGen WAN

Secure SD-WAN and FWaaS in one SASE solution

Barracuda CloudGen WAN provides easy to use secure SD-WAN and Firewall-as-a-Service. Everything is centrally managed from one portal regardless how many users, locations, or cloud services need to be secured and connected.

To harness the power of Microsoft Azure and the Azure Global network it is easily deployed directly from the Azure Marketplace. With Barracuda CloudGen WAN you can create a pragmatic SASE solution on your terms.



Easy to establish and maintain

CloudGen WAN works out-of-the-box with smart default configurations for cloud and SaaS applications. The CloudGen WAN management portal provides the most intuitive way to centrally orchestrate SD-WAN connectivity, security, and networking with minimal overhead.

In a nutshell: With Barracuda CloudGen WAN you can deploy, secure and manage a global high performance WAN without the need for specialized SD-WAN or expert enterprise firewall knowledge.

The solution extends SD-WAN connectivity and next-generation firewall security beyond users and office locations. Dedicated Industrial IoT and rugged form factor devices for shop and factory floors extend the pragmatic SASE concept to cover users, sites and things.

True cloud native

CloudGen WAN was built from the ground up as a cloud service to provide secure SD-WAN globally. Unlike other solutions in the market, it was not built as a pure-play SD-WAN with attached security and then moved to cloud.

Running natively as a SaaS service, CloudGen WAN establishes a fast overlay SD-WAN backbone automatically. For even better WAN experience, the solution provides an SD-WAN enabled on ramp to the Microsoft Global Network. Other than traditional MPLS or Network-as-a-Service solutions, Barracuda CloudGen WAN provides dynamic sizing of networking and security throughput to match your actual workload requirements.

Connectivity and security

CloudGen WAN is based on the security technology of Barracuda CloudGen Firewall. Barracuda's enterprise network firewall is the most secure and most scalable SD-WAN solution available.

CloudGen WAN provides SD-WAN technology formerly only available on dedicated network optimization solutions.

Deploy CloudGen WAN either next to an existing firewall solution or as stand-alone solution that provides battle-tested network connectivity and security, IPS/IDS, deep SSL inspection, and Advanced Threat Protection – all built right into the core of the solution.

Technical Overview

Connectivity and SD-WAN

Global secure SD-WAN service

- Adaptive bandwidth protection
- Adaptive session balancing
- Forward error correction (FEC)
- Application-based routing
- Support for internet breakout
- Dynamic bandwidth and latency detection
- Performance-based transport selection
- FIPS-140-2-certified TINA VPN protocol extension
- Seamless site-to-site connectivity
- Automatic failover and load balancing
- Dynamic Quality of Service
- WAN compression and caching
- Site authentication for user-based access control

Personal security for remote users

- For up to 4 devices per user
- Security enforcement in the cloud or via private enforcement node function of site devices
- Secure access to internal networks
- Azure Active Directory authentication
- Zero-touch roll-out
- User self-enrollment

Management and automation

Simple to operate

- Predefined SD-WAN optimization policies for all common cloud applications
- One single management interface for all regions and sites across an organization's WAN
- Continuous monitoring and optimizing
- Highest level of automation for superior Quality-of-Service and uninterrupted always-on connectivity for business-critical traffic and applications
- User and group-based security policies for URL filtering, malware protection, SSL inspection, and IPS/firewall rules

Simple to deploy

- Smart default configurations
- Run either as pure-play SD-WAN solution next to existing security devices or as Secure SD-WAN solution replacing existing security devices

Zero-touch site deployment

- No in-house pre-configuration
- No manual configuration on-site
- Site device installation without special-trained IT personnel on-site
- USB LTE modem support

Security

Advanced multi-layered security

- Stateful deep packet inspection
- Single-pass architecture
- Advanced threat protection
- Intrusion detection and prevention
- Malware protection
- SSL inspection and interception
- URL filtering
- Application-based access control list
- Azure Active Directory two-factor authentication

Supported Microsoft Azure specifics

- Deployment directly via Azure Marketplace
- Native SaaS service in Azure
- Automates access to Microsoft Global Network
- Azure Log Analytics and Azure Sentinel support for optional data analysis
- Azure Secured Hub compatible
- Licensing via PAYG per user per hour

CloudGen WAN service

for Microsoft Azure

	MICROSOFT AZURE VIRTUAL WAN SCALE UNIT							
	2	4	10	20	30	40	60	80
PERFORMANCE								
Aggregated bandwidth	1 Gbps	2 Gbps	5 Gbps	10 Gbps	15 Gbps	20 Gbps	30 Gbps	40 Gbps
Max. single tunnel performance	500 Mbps	1 Gbps	2.5 Gbps	5 Gbps	7 Gbps	10 Gbps	15 Gbps	15 Gbps

for private cloud or on-premise

All desktop, rack mount, and virtual site devices can be promoted to run as a CloudGen WAN service.

CloudGen WAN site devices

	HARDWARE SITE DEVICES									VIRTUAL SITE DEVICES				
	DESKTOP		1U RACK MOUNT			DIN RAIL COMPATIBLE								
	T100B	T200C	T400C	T600D	T900B	SC2	SC3	T93A	T193A	VT100	VT500	VT1500	VT3000	VT5000
PERFORMANCE														
Site performance up to	300 Mbps	1.3 Gbps	3.0 Gbps	6.0 Gbps	9.3 Gbps	30 Mbps	30 Mbps	200 Mbps	240 Mbps	300 Mbps	700 Mbps	1.5 Gbps	3.8 Gbps	9.3 Gbps
Recommended no. of users	50-100	150-300	300-1,000	1,000-4,000	6,000-9,000	n/a	n/a	n/a	150-300	50-100	150-300	300-1,000	1,000-4,000	6,000-9,000
Concurrent sessions	80,000	300,000	500,000	2,100,000	4,000,000	n/a	n/a	80,000	250,000	80,000	250,000	500,000	2,100,000	4,000,000
New session/s	8,000	12,000	20,000	115,000	190,000	n/a	n/a	8,000	12,000	8,000	12,000	20,000	115,000	190,000
HARDWARE														
Rugged hardware version	-	-	-	-	-	-	√ ¹	√ ²	√ ²	-	-	-	-	-
Licensed vCPUs (virtual)	-	-	-	-	-	-	-	-	-	2	4	8	10	up to 32
Copper NICs (1 GbE)	5x	12x	8x	10x	8x	4x	4x	2x	5x	-	-	-	-	-
Fiber NICs (SFP) (1 GbE)	-	4x	-	8x	8x	-	-	1x	2x	-	-	-	-	-
Fiber NICs (SFP+) (10 GbE)	-	-	2x	2x	4x	-	-	-	-	-	-	-	-	-
Fiber NICs (QSFP+) (40 GbE)	-	-	-	-	2x	-	-	-	-	-	-	-	-	-
Virtual NICs	-	-	-	-	-	-	-	-	-	5-16x	5-16x	5-16x	5-16x	5-16x

1—Fanless site devices with extended operating temperature range (-4 to +158 °F) purpose-built for harsh environments.
2—Fanless site devices with extended operating temperature range (-40 to +167 °F) purpose-built for harsh environments.

