

Barracuda CloudGen WAN for Azure

The global secure SD-WAN service built natively on Azure

Barracuda CloudGen WAN combines ease of use, full security, and cloud scalable SD-WAN connectivity to leverage the Microsoft Global Network as your WAN backbone instead of MPLS or leased lines. CloudGen WAN is a SaaS service deployed directly from the Azure Marketplace for as many regions as needed and administered centrally for all office locations and remote endpoints. The Microsoft Global Network is automatically provisioned as the backbone for anywhere anytime application access. Create a pragmatic SASE solution in the public cloud you prefer, on your own terms.



Easy to establish and maintain

Barracuda CloudGen WAN is easy to deploy to the Microsoft Virtual WAN directly from Azure Marketplace while the site devices are utilizing zero-touch deployment at its best.

CloudGen WAN works out-of-the-box due to smart default configurations for all cloud and SaaS applications. The CloudGen WAN management portal allows to alter configurations for all CloudGen WAN components in a very easy manner.

In a nutshell: deploy, configure, and manage a global high performance WAN without the need for specialized SD-WAN expertise.

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 provides fast and easy access to Microsoft Global Network from any region.

Benefit from the elasticity of the cloud by leveraging dynamic sizing at any time to match your organization's actual workload.

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.

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.

Either way, CloudGen WAN utilizes FIPS 140-2 validated VPN connectivity.

Technical Overview

Connectivity and SD-WAN

Global secure SD-WAN service

- Adaptive bandwidth protection
- Adaptive session balancing
- Forward error correction
- Support for SD-WAN 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

Seamless Azure Virtual WAN integration

- Support for multiple ISP per site
- Dynamic path selection

Management and automation

Simple to operate

- 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

Simple to deploy

- Deployment directly via Azure Marketplace
- Smart default configurations
- Native SaaS service in Azure
- Automates access to Microsoft Global Network
- 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

Security

Advanced multi-layered security

- Stateful deep packet inspection
- Single-pass architecture
- Advanced threat protection
- Intrusion detection and prevention
- Malware protection
- SSL inspection
- URL filtering
- Application-based access control list

CloudGen WAN gateways (hosted in Microsoft Azure)

SCALE UNIT	2	4	10	14	20	30	40	60	80
PERFORMANCE									
Aggregated bandwidth	1 Gbps	2 Gbps	5 Gbps	7 Gbps	10 Gbps	15 Gbps	20 Gbps	30 Gbps	40 Gbps
Max. single tunnel performance	500 Mbps	1 Gbps	2.5 Gbps	3.5 Gbps	5 Gbps	7 Gbps	10 Gbps	15 Gbps	15 Gbps

CloudGen WAN site devices

	HARDWARE SITE DEVICES								VIRTUAL SITE DEVICES				
	STANDARD					RUGGED							
	T100	T200	T400	T600	T900	T93	T193	VT100	VT500	VT1500	VT3000	VT5000	
PERFORMANCE													
Site performance up to	300 Mbps	700 Mbps	1.5 Gbps	3.8 Gbps	9.3 Gbps	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	50-100	150-300	50-100	150-300	300-1,000	1,000-4,000	6,000-9,000	
Concurrent sessions	80,000	250,000	500,000	2,100,000	4,000,000	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	8,000	12,000	8,000	12,000	20,000	115,000	190,000	
HARDWARE													
Form factor (hardware) / Licensed vCPUs (virtual)	Desktop	Desktop	1U rack mount			Compact, DIN rail	Compact, DIN rail	2	4	8	10	up to 32	
Copper ethernet NICs	4x1 GbE	6x1 GbE	8x1 GbE	10x1 GbE	8x1 GbE	2x1 GbE	5x1 GbE	-	-	-	-	-	
Fiber NICs (SFP)	-	-	-	8x1 GbE	8x1 GbE	1x1 GbE	2x1 GbE	-	-	-	-	-	
Fiber NICs (SFP+)	-	-	2x10 GbE	2x10 GbE	4x10 GbE	-	-	-	-	-	-	-	
Fiber NICs (QSFP+)	-	-	-	-	2x40 GbE	-	-	-	-	-	-	-	
Virtual NICs	-	-	-	-	-	-	-	5-16x	5-16x	5-16x	5-16x	5-16x	
Integrated switch	-	8-port	-	-	-	-	-	-	-	-	-	-	

