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 deployed rapidly via zero-touch deployment.

CloudGen WAN works out-of-the-box with smart default configurations for all 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: 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 the 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.

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 (Endpoint-to-Azure connectivity)

- For up to 4 devices per user
- Security enforcement in the cloud
- Secure access to internal networks
- Azure Active Directory authentication
- User self-enrollment
- Licensing via PAYG per user per hour

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
- Azure Log Analytics and Azure Monitor support for optional data analysis
- Azure Secured Hub compatible

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
- 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 AD two-factor authentication

CloudGen WAN gateways (Microsoft Azure service)

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

CloudGen WAN site devices

	HARDWARE SITE DEVICES							VIRTUAL SITE DEVICES				
	STANDARD					RUGGED[1]						
	T100B	T200C	T400C	T600D	T900B	T93A	T193A	VT100	VT500	VT1500	VT3000	VT5000
PERFORMANCE												
Site performance up to	300 Mbps	1.0 Gbps	1.5 Gbps	3.8 Gbps	9.3 Gbps	200 Mpbs	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	300,000	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 (1 GbE)	5x	12x	8x	10x	8x	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 (-40 to + 167°F) purpose-built for harsh environments.

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