

SASE, ZTNA, CASB i SIA

O co w tym chodzi i komu to tak naprawdę potrzebne?

MBUM #8

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19 lat w branży IT

Od 2014 roku w obszarze Cyber/InfoSec

CEH/CEI/MTCNA/MTCRE/MTCSE/MTCUME/RHCE

Trener: EC-Council | HackerU | Barracuda

Obecnie: Sales Engineer CEE (17 krajów)



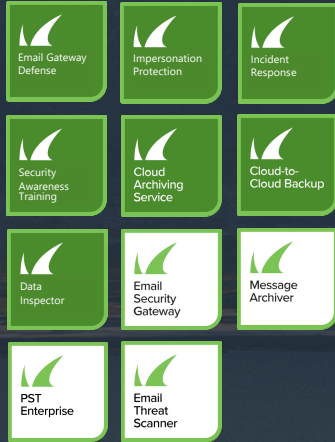
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Network Security– portfolio

EMAIL PROTECTION



APP AND CLOUD SECURITY



NETWORK SECURITY



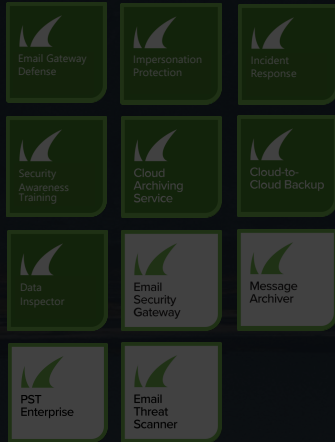
DATA PROTECTION



CENTRALIZED MANAGEMENT AND CONTROL

Network Security– portfolio

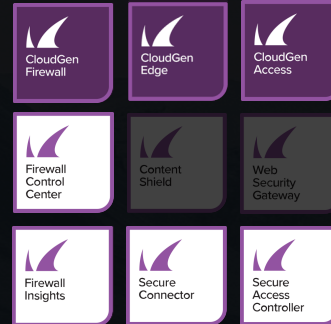
EMAIL PROTECTION



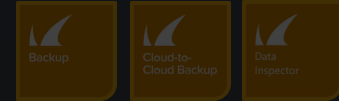
APP AND CLOUD SECURITY



NETWORK SECURITY



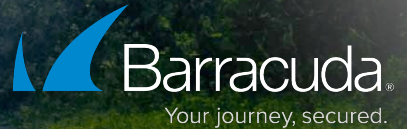
DATA PROTECTION



CENTRALIZED MANAGEMENT AND CONTROL

Barracuda SecureEdge

CASB



Cloud Access Security Broker [CASB]

(CASB) to lokalne lub chmurowe punkty wymuszania zasad bezpieczeństwa, umieszczone między konsumentami a dostawcami usług w chmurze

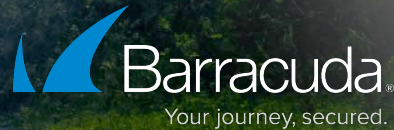
CASB służy do łączenia i realizowania polityk bezpieczeństwa organizacji podczas uzyskiwania przez użytkowników dostępu do zasobów chmurowych

CASB konsoliduje wiele mechanizmów bezpieczeństwa: uwierzytelnianie, SSO, mapowanie poświadczeń, profilowanie urządzeń, szyfrowanie, tokenizacja, ochrona anti-malware/ATP



Barracuda SecureEdge

SIA



Secure Internet Access [SIA]

To oparta na chmurze usługa zapewniająca ochronę użytkowników przez zagrożeniami bazującymi na DNS i sieci Web

SIA wymusza uwierzytelnianie użytkowników w procesie dostępu do treści Internetowych i audytuje ich aktywność

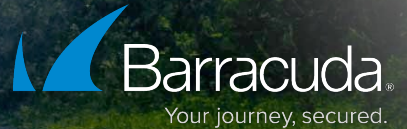
Rozwiązania SIA podają inspekcji zapytania DNS oraz ruch HTTP/HTTPS z urządzenia użytkownika bez względu na jego lokalizację



Barracuda SecureEdge

SASE

#CudaTeam



Secure Access Service Edge [SASE]

Model SASE dostarcza konwergentną infrastrukturę sieciową wraz z technologiami zabezpieczającymi w formie usługi (SaaS)

SASE wspiera scenariusze połączenia ze sobą lokalizacji zdalnych, użytkowników na home office oraz sieci on-premise

SASE jest przede wszystkim dostarczany jako usługa, umożliwiając dostęp w modelu „Zero Trust” działający w parze z politykami bezpieczeństwa w czasie rzeczywistym

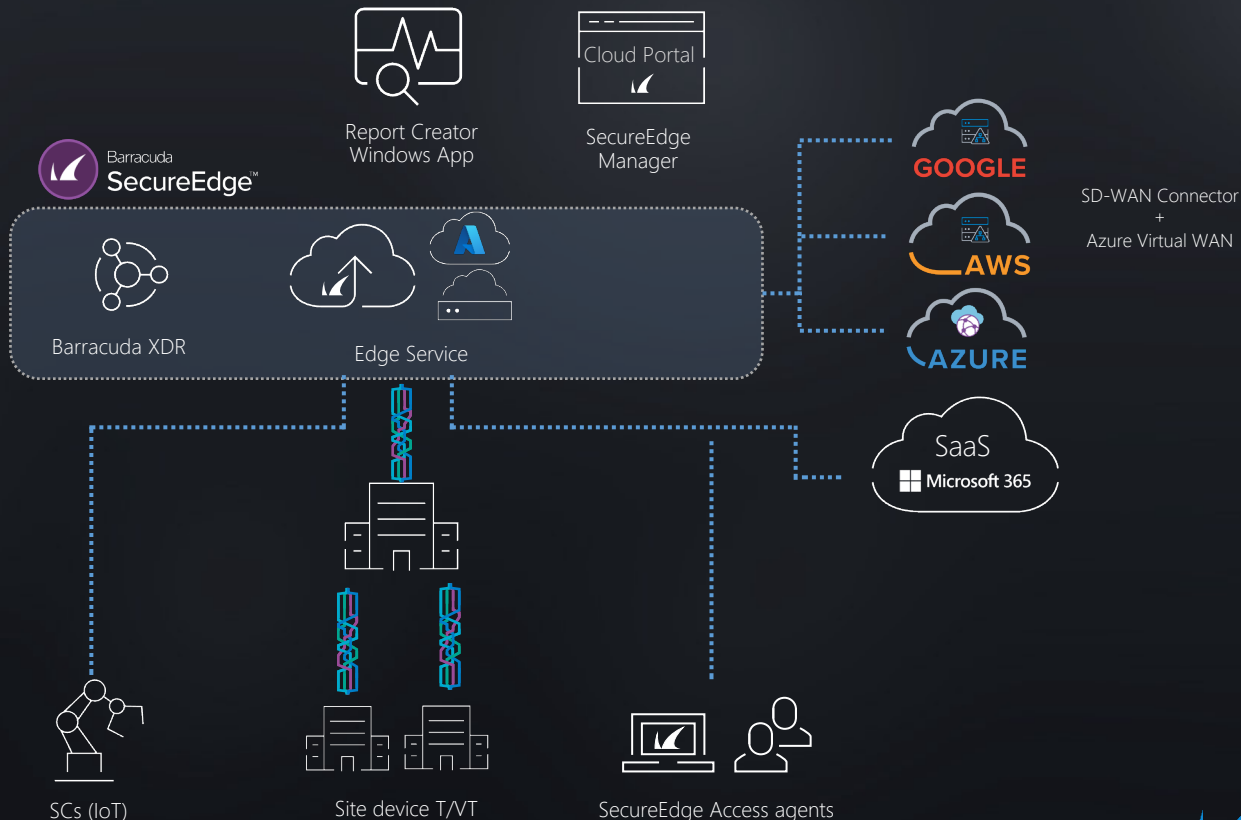


Secure Access Service Edge



SecureEdge Architecture

- Universal fit
- next generation firewall
- Secure SD-WAN
- SecureEdge Access
- Multi-cloud
- SaaS and private tenant data plane
- Report Creator



SecureEdge – komponenty

1

SecureEdge Service

- Cloud service hosted in the Barracuda Cloud and fully managed by Barracuda.
- Includes free-of-charge **Barracuda SecureEdge Manager** for central management.
- Alternative deployment option in customer-owned Azure environment, available via Azure Marketplace.

2

SecureEdge site device

- Hardware appliances and virtual appliances
- Zero-touch deployment (ZTD) service for Barracuda SecureEdge hardware appliances

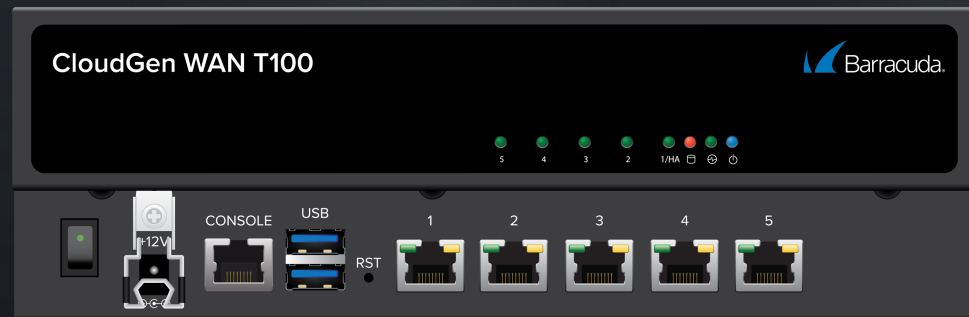
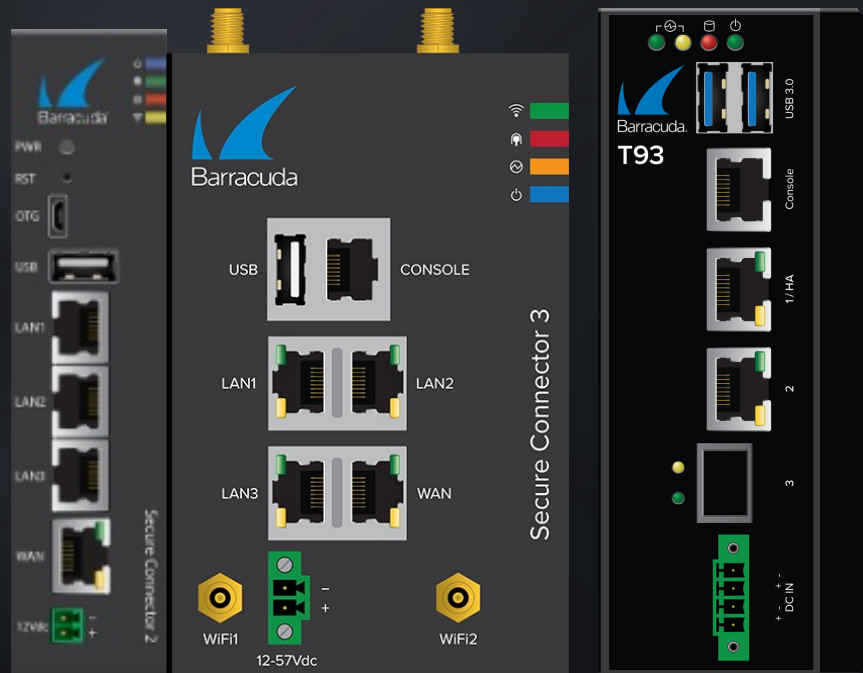
3

SecureEdge Agent

- New remote access client for Barracuda SecureEdge and Barracuda CloudGen Firewall
- Includes Zero Trust Network Access (ZTNA) and Secure Web Gateway (SWG) functionality



SecureEdge - urządzenia



Intent-based routing and security

Demo Enterprises Inc/Production

Security and Access > SD-WAN > Categories

Search Applications

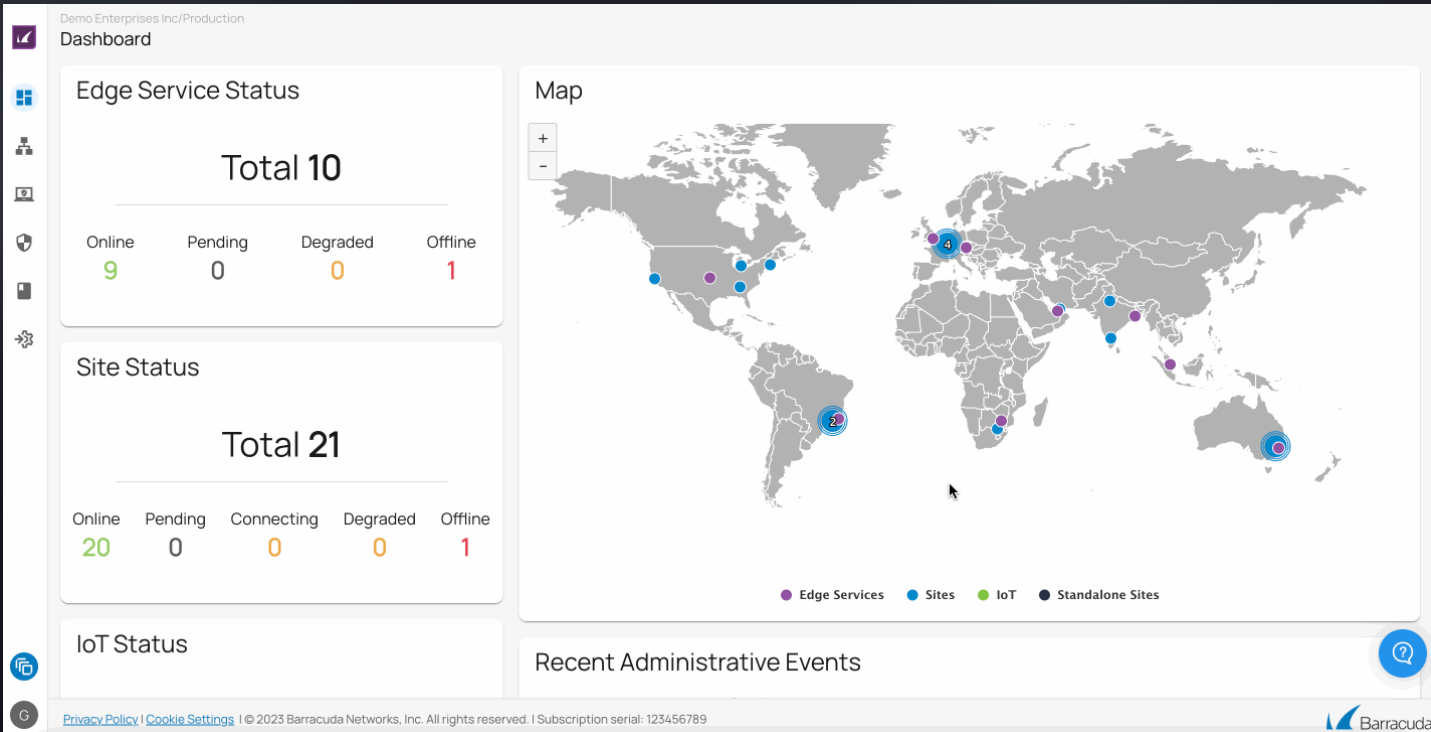
CATEGORY	APPLICATIONS	CUSTOM APPLICATIONS	PRIORITY	ACTION	FALLBACK	LOAD BALANCING
Office 365	14	0	High	Optimize	Allow	Auto
SaaS & Business	48	1	High	Optimize	Allow	Auto
Remote Access	26	0	Real Time	Best Latency	Allow	Auto
Voice & Video	21	1	Real Time	Best Latency	Allow	Auto
Network Services	58	0	Medium	Best Bandwidth	Allow	Auto
Network Bulk	361	1	Low	Best Bandwidth	Block	Auto
Web Traffic	33	2	Medium	Best Bandwidth	Block	Auto

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Barracuda

Intent-based routing and security

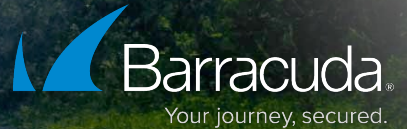
<https://se-demo.barracudanetworks.com/>



Barracuda SecureEdge

ZTNA

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Barracuda CloudGen Access



Identity-based user authentication

Device authentication

Device health checks (ongoing)

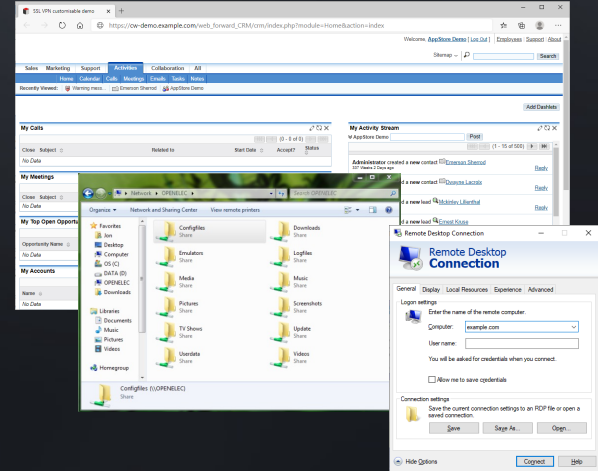
Per-application permissions

Central management and logging

On-demand autoscaling

Simple always-on connectivity

Any application



Any environment



Main ZTNA use case categories & details

Secure access to internal apps & data



Employee & corporate devices



BYOD & contractor access



Web threats & phishing protection

Secure access to multi-cloud workloads



Simultaneous multi-cloud access



Access automation for microservices (Kubernetes, Docker)

Secure access to SaaS applications



Device security, access control & logging for SaaS apps



Desktop-as-a-Service (Windows Virtual Desktop for Azure)



CloudGen Access: popular use cases

Secure Access to Internal Apps & Data

- Fast to deploy and easy to manage Zero Trust alternative to VPN
- Secure access for unmanaged (contractor) and BYOD (employee) devices
- Access to authorized apps only, security enforcement, logging, compliance

Secure Access to Multi-Cloud Workloads

- Privileged access to cloud workloads, multiple cloud apps simultaneously without bastion hosts
- Streamline access to private Kubernetes nodes and Docker

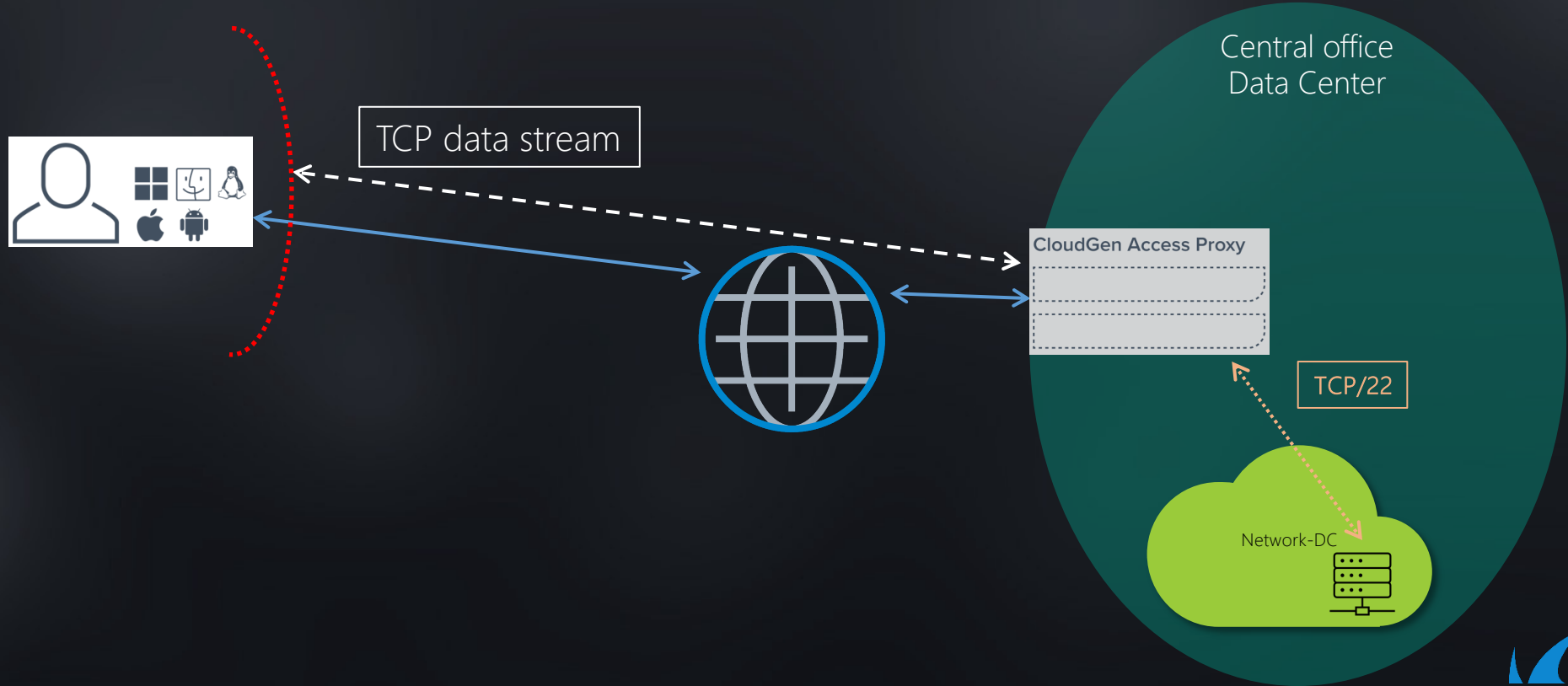
Secure Access to SaaS Applications

- Access control for SaaS apps
- Device access and context enforcement for SaaS access
- Audit trail for compliance



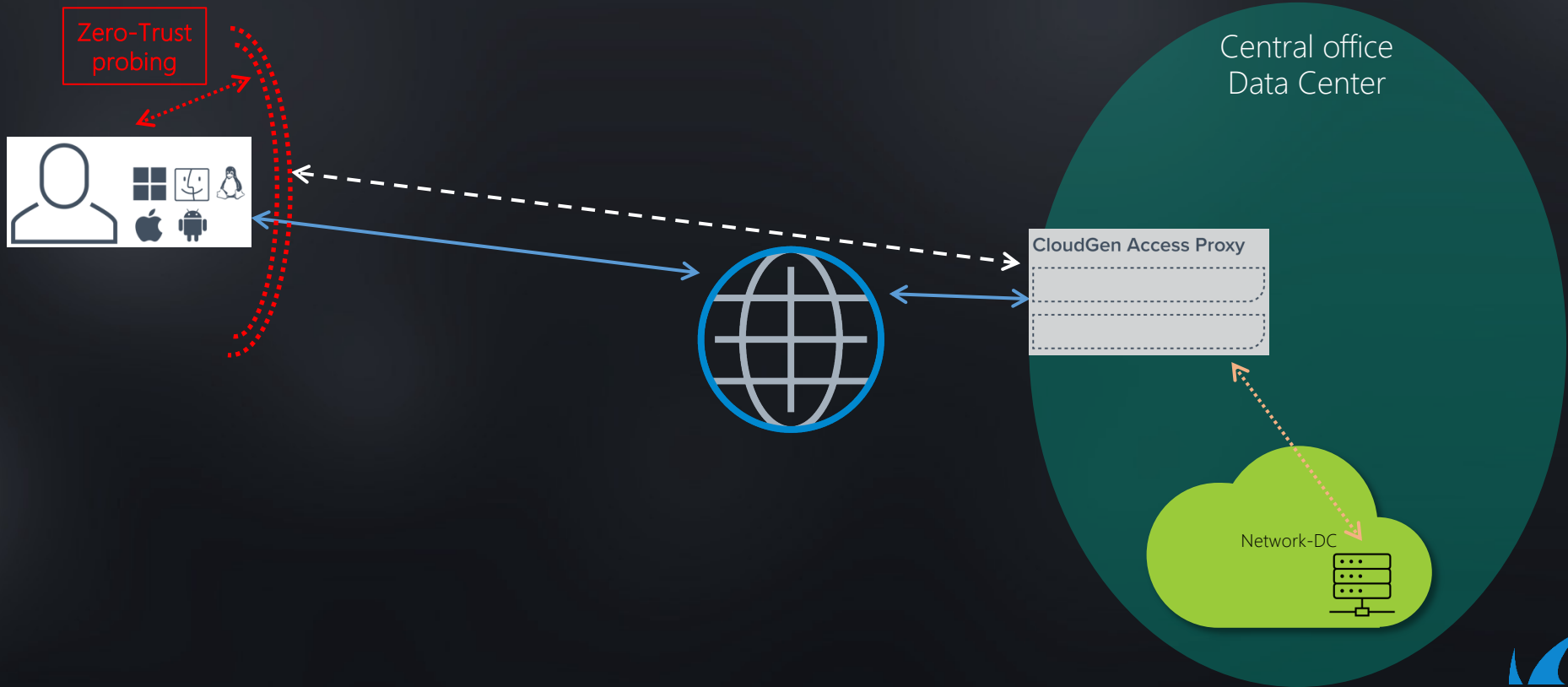
Zero-Trust aspect in CGA:

Application level tunneling, not network level



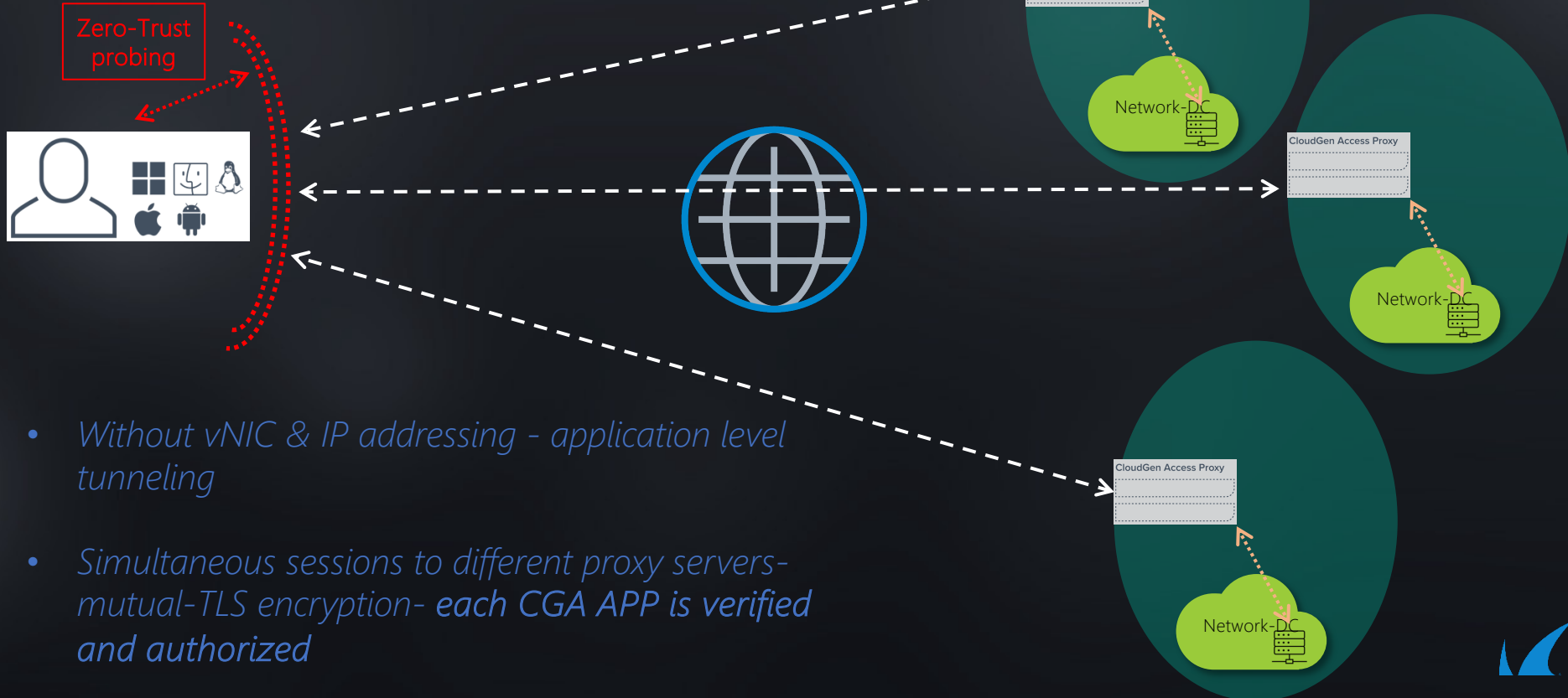
Zero-Trust aspect in CGA:

Security perimeter on end-device



Zero-Trust aspect in CGA:

Simultaneous ZTNA



Proxy

Computing requirements are minimum and depend on:

- Configured resources
- Requests being made from devices

Component	CPU	Memory
Envoy Proxy	0.25 core (2Ghz)	256 MB
CloudGen Access Proxy Orchestrator	0.1 core (2Ghz)	128 MB
Redis (HA only)	0.1 core (2Ghz)	32 MB



Get Started x Dashboard

Domains

0 Allowlist → 0 Blocklist →

Resources

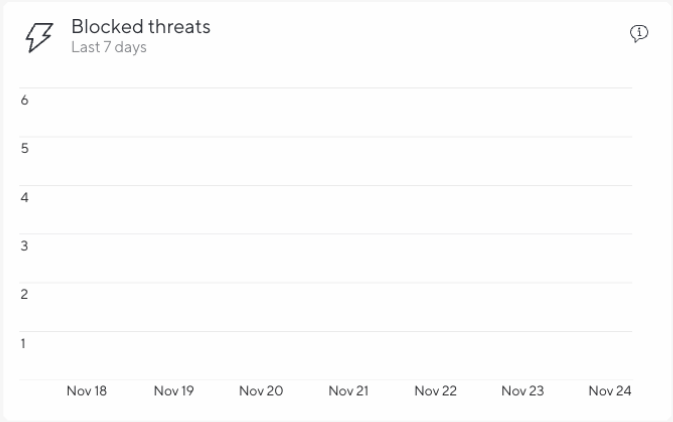
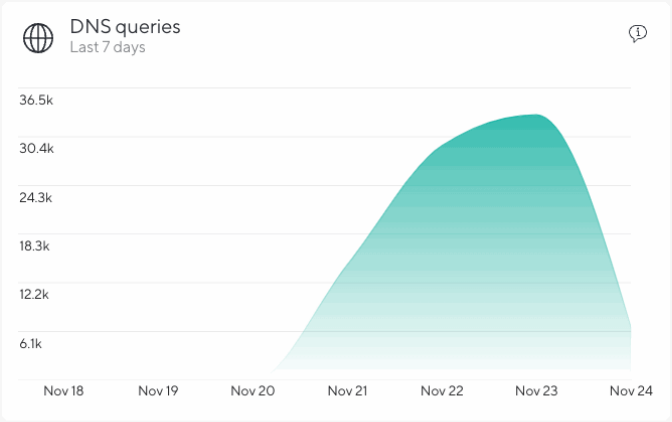
2 Protected →

Users

0 Total → 0 Enrolled →

Devices

0 Total →



Blocked threats

Domain	Requests
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Most popular resources
Last 7 days

Resource	Granted
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Dziękuję za uwagę!

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