

OpenVPN Cloud / Datasheet -- October 2022

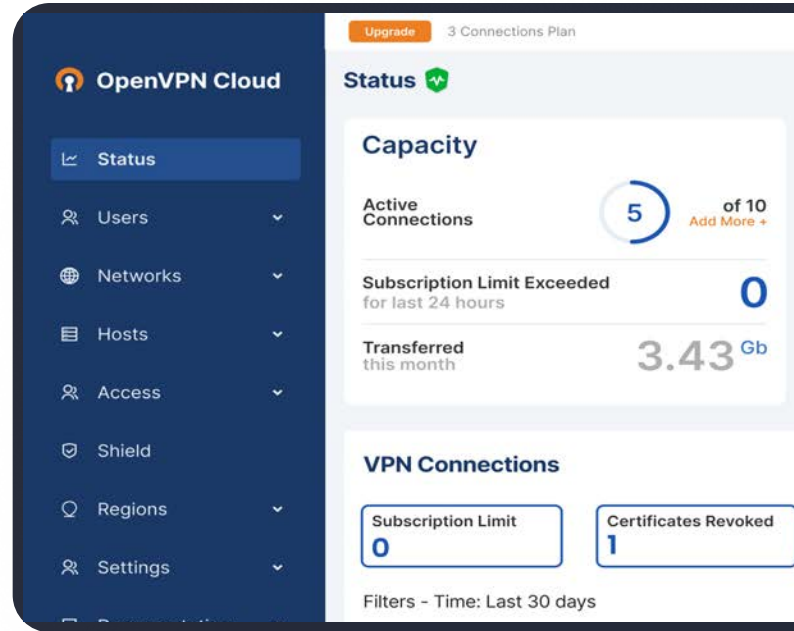
# OpenVPN Cloud

The virtualized secure network platform that delivers essential Secure Access Service Edge (SASE) capabilities as a service

OpenVPN Cloud is the only cloud-delivered service that lets your business integrate virtual networking with essential Secure Access Service Edge (SASE) capabilities such as firewall-as-a-service (FWaaS), intrusion detection and prevention system (IDS/IPS), DNS-based content filtering, and zero trust network access (ZTNA).





With OpenVPN Cloud, your business can easily deploy and manage a secure overlay network that connects all of your applications, private networks, workforce, and IoT devices without the cost and expense of owning and managing complex, hard-to-scale security and data networking gear.

- <https://openvpn.net/blog/vpn-role-in-sase/>
- <https://openvpn.net/blog/ids-ips/>
- <https://openvpn.net/cloud-docs/user-guide-securing-dns-and-using-dns-based-content-filtering/>



OpenVPN Cloud

## OpenVPN Use Cases

-  [Secure Remote Access](#)
-  [Secure IoT Communications](#)
-  [Protect Access to SaaS Applications](#)
-  [Site-to-Site Networking](#)

- <https://openvpn.net/solutions/use-cases/secure-remote-access/>
- <https://openvpn.net/solutions/use-cases/secure-dns/>
- <https://openvpn.net/solutions/use-cases/iot-communications/>
- <https://openvpn.net/solutions/use-cases/restricted-internet-access/>
- <https://openvpn.net/solutions/use-cases/protecting-access-to-saas/>
- <https://openvpn.net/solutions/use-cases/secure-internet-access/>
- <https://openvpn.net/solutions/use-cases/site-to-site-networking/>
- <https://openvpn.net/solutions/use-cases/enforcing-zero-trust/>

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# What are the benefits of OpenVPN Cloud service?

Our secure overlay network provides access to private business applications hosted in multiple on-premises and virtual private cloud networks using application domain names (e.g., app.mycompany.com) alone. Plus, by combining a secure private overlay network, built-in security features, and application name-based routing, we deliver the following to your business:



## Ease of Use

Lowens the data networking expertise needed by eliminating the complexity of IP address routing and private IP address space management.



## Secure Private App Access

Expands access to all applications — web and otherwise — by supporting all TCP and UDP application protocols.



## Secure Private Networking

Enables private networking even when IP address subnet ranges conflict due to overlap.



## Secure Cross-Network Access

Provides access from one network to applications hosted in another network instead of creating a full-access, site-to-site connection between the two.



## ZTNA Essentials

Uses identity-based policies for applications access and application-based network segmentation to block lateral movement.



## Secure SaaS App Access

Tunnels traffic to SaaS app domain names to a customer-owned internet gateway while allowing other internet traffic to use local direct internet access.



## Restricted Internet Access

Enables tunneling of connected entity internet traffic to one or more customer-owned internet gateways to apply corporate internet access policies or limit internet access to trusted destinations.



## Supports Unattended Devices

Secures and routes traffic to specialized applications from unattended connected devices such as points of service (POS) terminals and other IoT devices.



## Value Add Security Features

Delivers added protection from cyber threats, plus cost savings, with built-in critical security functions that eliminate the need for additional security appliances.



## As-a-Service Offering

Simplifies deployment, scaling, and management by eliminating the need for networking and security appliances.



## All-in-One Solution

Delivers a secure, distributed wide-area private cloud (WPC) across global meshed points of presence with the essentials needed for ZTNA, SASE, and site-to-site networking.



## Built-in Protections

Protects against DoS attacks by handling all inbound connections through OpenVPN cloud instead of your on-premise or cloud environment.

# What Makes OpenVPN Cloud Different?

## Unlike other solutions, OpenVPN Cloud offers a service that:

- ✓ Provides a secure, distributed, virtualized networking platform with integrated essential value-add network security functions but with the flexibility to augment your security posture with add-on security controls implemented at your private internet gateway to meet your requirements.
- ✓ Consolidates advanced network security, secure remote access, advanced encryption, IP and domain routing, essential intrusion detection and prevention, safe content filtering, and firewall capabilities into a single cloud-based service.
- ✓ Leverages the market-proven, open source OpenVPN tunneling protocol that boasts over 60 million downloads.
- ✓ Reduces the cost and complexity for smaller mid-market businesses and branch locations for larger enterprises.
- ✓ Provides the foundational network security and role-based secure access for evolving zero trust networking and SASE solutions.
- ✓ Uses Application Domain-based Routing so you can easily route traffic to applications distributed among your various connected private networks using the application's domain name as a route to the network where that application resides.
- ✓ Goes beyond tunneling traffic to private resources on your network and gives you unmatched control over internet-bound traffic routing by User Group, Network, or Host.
- ✓ Uses our multi-tenant cloud-delivered service for immediate, on-demand creation of a dedicated worldwide private overlay network, with built-in security features, exclusively for your use.
- ✓ Gives network administrators the ability to quickly and easily scale connections on demand.



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- <https://openvpn.net/cloud-vpn/features/domain-routing/>
- <https://openvpn.net/cloud-vpn/features/multiple-wpc/>

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# How Does OpenVPN Cloud Work?

## A Global Leader in Secure Networking

OpenVPN Cloud capabilities are **delivered as-a-Service (aaS)** from more than 30 worldwide points of presence (PoP) that provide businesses with fast, on-demand connectivity — without the need to acquire and manage complex networking gear. Businesses connect to these PoPs by running Connector software on 1) their application servers, 2) on lightweight virtual machines on their networks, or 3) by using OpenVPN protocol compatible routers to make applications part of the overlay network. The company's workforce can then access these applications by installing the Connect application on devices and connecting to the closest PoP.

OpenVPN Cloud separates the data plane, which includes functions such as data forwarding, encryption, security, and policy enforcement, from the control plane. The data plane functions are operated entirely by kernel-optimized software on bare-metal servers in the PoPs for high performance. The control plane runs on the Cloud using the **latest cloud-native technologies** to carry out policy management, event collection, and other configuration and authentication functions at a high scale. For maximum route diversity and low latency, the worldwide PoPs connect to each other using **full-mesh topology** over high-speed internet access.

**With over 60 million downloads of our core open source software and over 20,000 commercial customers, OpenVPN is recognized as a global leader in secure networking.**

## Does OpenVPN Play a Role in SASE?

OpenVPN Cloud **uses the SASE architecture** and distributes the networking and security functions in a tightly integrated fashion among multiple edge data centers around the world.

The OpenVPN Cloud platform creates a virtualized network, called a Wide-area Private Cloud (WPC), dedicated to a specific customer. Layer-3 OpenVPN tunnels are used for connecting the customer's devices and networks to the WPC thus providing WAN capabilities as well as **ZTNA functionality**. Additionally, from the same edge Regions, all egress and ingress packets are subjected to firewall rules and **intrusion detection and intrusion prevention systems (IDS/IPS)**. DNS traffic is securely encrypted within the tunnel, and **DNS-based content filtering** is available to protect against malicious and undesirable internet content.

In other words, OpenVPN Cloud uses SASE architecture to combine WAN capabilities with ZTNA, FWaaS, IDS/IPS, and Content Filtering – and offers this service from the Cloud.



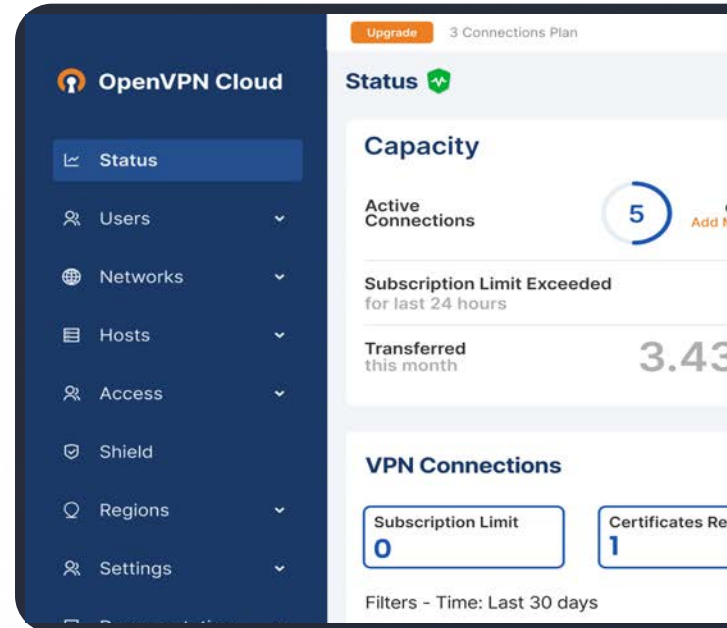
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# Why is OpenVPN Cloud the best choice for cloud-based secure network connectivity?

## Different, Not Just Better

OpenVPN® Cloud takes the complexity and high cost out of building and managing a **secure network** for your entire organization with a **cloud-delivered service** that is easy to deploy. Our unique cloud-based virtual networking platform, with built-in security functions, is offered as a service. This solution delivers **secure remote access to private resources, SaaS applications, and the internet, as well as secure site-to-site networking and effective content filtering**. This ensures your distributed workforce, servers, network devices, IoT/IoT devices, and applications across your business have instant access to the services they need, quickly and easily, while protecting them from cyberattacks.

Built on the market-proven OpenVPN protocol, the solution consolidates secure remote access, full encryption, advanced IP and domain routing, intrusion detection/prevention, DNS-based content filtering, and firewall capabilities into a **virtualized, mesh-connected, high-speed network** platform with worldwide points of presence. OpenVPN Cloud is the only cloud-delivered service that lets your business integrate virtual networking with essential Secure Access Service Edge (SASE) capabilities such as firewall-as-a-service (FWaaS), intrusion detection and prevention system (IDS/IPS), DNS-based content filtering, and zero trust network access (ZTNA).



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# Why is OpenVPN Cloud the best choice for cloud-based secure network connectivity?

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|---|--|--|
| <b>Networking</b> <ul style="list-style-type: none"> <li>• Support for Site-to-Site and Remote Access.</li> <li>• Full-mesh connectivity without complex configuration.</li> <li>• Unique local address range available for Customer use.</li> <li>• Support for peer-to-peer communication.</li> </ul>   | <b>Security</b> <ul style="list-style-type: none"> <li>• Enhanced security as only outgoing connections to OpenVPN Cloud is made.</li> <li>• Firewalls don't need to be opened to allow incoming traffic from the internet.</li> <li>• DNS-based content filtering.</li> </ul> | <b>IPv4 and IPv4</b> <ul style="list-style-type: none"> <li>• Full RFC 1918 IPv4 private address range and IPv6 RFC 4193</li> <li>• IPv6 and IPv4 support.</li> <li>• Virtual worldwide private secure networking IPv4 and IPv6 space for each Tenant/Customer</li> <li>• There is no limited list of protocols or service support.</li> </ul>                 |
| <b>Routing</b> <ul style="list-style-type: none"> <li>• Improve network performance with smart routing.</li> <li>• Increase redundancy with multiple network connections.</li> <li>• IP-layer networking allows access to all IP-based services.</li> <li>• Flexible routing of Internet traffic</li> <li>• Access private services by connecting to any of the worldwide regions.</li> <li>• Customers can use their private DNS servers.</li> <li>• Domain names can be used to route even if there are multiple network with overlapping IP address ranges.</li> <li>• Similar to per-app VPN policies, traffic can be steered into the VPN tunnel on a per-domain basis.</li> </ul> | <b>Cloud</b> <ul style="list-style-type: none"> <li>• Fully managed and hosted service.</li> <li>• Point-and-click centralized management and configuration.</li> </ul>  | <b>End User</b> <ul style="list-style-type: none"> <li>• Offline or online connection profile distribution.</li> <li>• Assigned IP address to User devices and Connectors does not change or depend on a connection point.</li> <li>• Supports LDAP and Security Assertion Markup Language (SAML) 2.0 identity federation for Single Sign-On (SSO).</li> </ul> |

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# Ready to Get Started with OpenVPN?

## Get Started

We make getting started with OpenVPN Cloud as easy as possible by offering three free connections. Follow the steps below to create an account to use your free connections for remote access as long as you like. There's no credit card required; then scale from free to paid when you're ready. Our [Technical Support](#) team is available 24/7 to guide you through every step of set-up and configuration and answer any questions you may have.

- ✓ [Create an OpenVPN Cloud](#) account, and select an identity for your Cloud (for example, cyberone).
- ✓ Use our Network Wizard to configure your private network and deploy Connector.
- ✓ Download and launch the OpenVPN Connect app.
- ✓ Add a profile in the Connect app by using your OpenVPN Cloud URL (for example, cyberone.openvpn.com), authenticate, and select a Region to connect.

[OpenVPN Cloud](#)

Have any questions? Feel free to contact us at: [sales@openvpn.net](mailto:sales@openvpn.net)

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- <https://support.openvpn.com/hc/en-us>
  - <https://myaccount.openvpn.com/signup?product=CVPN&portal=OWNER&return=https%3A%2F%2Fcloud.openvpn.com%2F>