

Skyhigh[®] Security Service Edge(SSE)

IPsec Configuration with Versa



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Configuring IPsec site-to-site with Versa

If your organization uses a supported third-party SD-WAN device to secure a remote office, you can use the IPsec protocol to secure communications between this site and Skyhigh Secure Web Gateway Cloud Service (Skyhigh WGCS).

IPsec site-to-site overview

To secure communications between a remote site and Skyhigh WGCS using IPsec site-tosite authentication, you create an IPsec VPN tunnel between the supported SD-WAN device and the cloud service.

Environment

- Skyhigh Security Service Edge (SSE)
- Versa Director

Setup includes

- Configuration of Skyhigh WGCS using the Skyhigh Security Service Edge management console.
- Configuration of the supported device.

For information about configuring Skyhigh WGCS for IPsec site-to-site, see the Skyhigh Secure Web Gateway Cloud Service Guide.

Considerations for configuring IPsec site-to-site

Before configuring IPsec site-to-site authentication, review the following considerations.

- **Routing only HTTP and HTTPS traffic**–Skyhigh WGCS only handles IPsec traffic directed through the VPN tunnel to ports 80 and 443 (HTTP and HTTPS traffic, respectively). Configure your device to route only HTTP and HTTPS traffic through the VPN tunnel.
- **Configuring two IPsec VPN tunnels**-Best practice is to configure a primary and secondary VPN tunnel. The primary tunnel is connected to the best available point of presence (PoP), while the secondary tunnel is connected to the second-best point of presence. This practice ensures continuous IPsec support in case one point of presence is not available.



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- Using an IPsec VPN tunnel to connect remote sites–If you have multiple remote offices connected to your main office by VPN, you can protect traffic and improve network latency by creating a VPN tunnel between each site and Skyhigh WGCS.
- Adding SAML authentication–You can add a SAML configuration to an IPsec site. Skyhigh WGCS uses SAML to authenticate requests received from the site through the IPsec tunnel.
- Using a NAT device-If your IPsec device is located behind a NAT device and the outgoing interface has a private IP address, set the local ID attribute to your public IP address.

Finding the best available points of presence

To find the point of presence closest to the device that you are configuring for IPsec authentication, you query the Global Routing Manager (GRM). The GRM is a DNS service that routes traffic to the best available point of presence.

From the network where your device is installed, run the nslookup command-line tool, as follows:

- nslookup 1.network.wgcs.skyhigh.cloud
- nslookup 2.network.wgcs.skyhigh.cloud

In response to these commands, the GRM returns the IP addresses of the best and second-best points of presence, respectively, based on the network location of your device. You need these values when configuring the primary and secondary IPsec VPN tunnels in your device and in Skyhigh WGCS.



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Template Creation

1. In the Versa Director interface, select **Workflows | Templates**.

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3. Select Management Servers, then click Create. The template is created successfully.



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4. Add **Device** and complete the device deployment settings, including the serial number.

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6. Configure VPN Profile. Select Configuration | Services | IPsec | VPN Profiles, then click + Add General Profile.

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7. Select IKE, then configure Version v2.

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9. Select Local Auth, then configure the settings.

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							Cancel

10. Select **Peer Auth**, then configure the settings.

- Authentication Type: PSK
- Shared Key: This value must match pre-shared key that you configure in Skyhigh SSE.
- Identity Type: IP/EMAIL/FQDN
- Identity: IP address of the best or second-best available PoP returned by the nslookup tool.

Note: The selected algorithms and the value of the pre-shared key must match the IPsec configuration in the Skyhigh SSE. For example, if you select SHA1 for IKE in Versa Director, you must also select SHA1 as the authentication algorithm in Skyhigh SSE.

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11. Select IPsec, then configure the settings.

Edit IPsec VPN - I	Tunnel-1					×
General IKE IP	sec.					
Mode	_	Anti Replay		Fragmentation		
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IPsec VPN configuration options

You use one of the following options when configuring IPsec site-to-site authentication in the Versa Director web interface. Then select the same option from the **Child ID Type** drop-down list when configuring IPsec site-to-site in the Skyhigh SSE.

- Client Address
- Specific IPv4 Address
- Fully Qualified Domain Name
- User FQDN

Note: To view IPsec configuration in the Skyhigh SSE, select **Settings | Infrastructure | Web** Gateway Setup | New Location | IPsec Mapping.



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Client Address

When you configure IPsec in the Versa Director interface using the **Client Address** option, match the values configured in the Skyhigh SSE.

IP Range Mapping IPSec Mapping					
Provide your identity settings					
Client ID Type	Use Client Address 🗸 🗸				
Client Address	106.201.35.24				
Pre-Shared Key	mic_1234				

Specific IPv4 Address

When you configure IPsec in the Versa Director interface using the **Specific IPv4 Address** option, match the values configured in the Skyhigh SSE.

IP Range Mapping	IPSec Mapping					
Provide your identity settings						
Client ID Type	Use specific IPv4 Address 🛛 🗸					
Client ID	192.168.145.132					
Client Address	106.201.35.24					
Pre-Shared Key	mic_1234					



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Fully Qualified Domain Name

When you configure IPsec in the Versa Director interface using the **Fully Qualified Domain Name** option, match the values configured in the Skyhigh SSE.

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Client ID Type	Use Fully Qualified Domain Name
Client ID	
Client Address	106.201.35.24
Pre-Shared Key	mic. 1234

User FQDN

When you configure IPsec in the Versa Director interface using the **User FQDN** option, match the values configured in the Skyhigh SSE.

rovide your ide	ntity settings	
Client ID Type	Use a User FQDN	×
Client ID	E.	
Client Address	106.201.35.24	
Pre-Shared Key	mic_1234	

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