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## IPsec VPN Tunnels

<https://campus.barracuda.com/doc/46209571/>

The IPsec VPN protocol is the industry standard VPN protocol and allows you to create site-to-site VPN tunnels to third-party VPN gateways. The Barracuda NextGen Firewall F-Series supports both IKEv1 and IKEv2 site-to-site tunnels. To improve connectivity with third-party IPsec implementations, Barracuda Networks is part of the Virtual Private Network Consortium ([vpnc.org](http://vpnc.org)). There, you can find IKEv1 IPsec profiles tested specifically for interoperability.

### In this article

## IKEv1 VPN Tunnels

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### IPsec IKEv1 site-to-site VPN Tunnel Configuration

The NextGen Firewall F-Series can establish IPsec VPN tunnels to any standard compliant third-party IKEv1 IPsec VPN gateway. The site-to-site IPsec VPN tunnel must be configured with identical settings on both the F-Series Firewall and the third-party IPsec gateway.

For more information, see [How to Create a site-to-site IPsec VPN Tunnel](#).

### IPsec IKEv1 site-to-site VPN Tunnel to AWS VPN Gateway

The Amazon AWS gateway uses two IPsec tunnels and BGP routing to connect your on-premise F-Series Firewall to your Virtual Private Cloud in Amazon AWS.

For more information, see [How to Configure an IKEv1 IPsec VPN to an AWS VPN Gateway with BGP](#).

### IPsec IKEv1 Tunnel Settings

To find out what a specific parameter in the IPsec configuration is for, and the possible configuration values, see the IPsec Tunnel Settings list.

For more information, see [IPsec IKEv1 Tunnel Settings](#).

## IKEv2 VPN Tunnels

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## **IKEv2 IPsec Site-to-Site VPN Tunnel Configuration**

The NextGen Firewall F-Series can establish IPsec VPN tunnels to any standard compliant third-party IKEv2 IPsec VPN gateway. The site-to-site IPsec VPN tunnel must be configured with identical settings on both the F-Series Firewall and the third-party IPsec gateway.

For more information, see [How to Configure a Site-to-Site IPsec IKEv2 VPN Tunnel](#).

## **IPsec site-to-site VPN Tunnel to Azure VPN Gateway**

You can connect to the Azure VPN Gateway using a statically routed configuration using IKEv1 to use the static Azure VPN Gateway mode.

For more information, see [How to Configure an IPsec site-to-site VPN to a Microsoft Azure VPN Gateway](#).

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