Configure Options and VPN Capabilities for Secure Access China

Contents

Issue

Organizations analyzing VPN capabilities for Cisco Secure Access China deployments require clarification on encryption support and operational constraints. Specifically, there are questions about whether IPsec VPN (IKEv1/IKEv2) is officially supported on Cisco Secure Firewall devices deployed within mainland China, why GRE tunneling appears to be the commonly recommended option, and what prerequisites or alternatives exist for secure communication. Additionally, there is a need to understand support for GRE tunnels when migrating from virtual checkpoint firewalls in AWS China to FTD platform for establishing connectivity with AWS Transit Gateway.

Environment

- Cisco Secure Access China (cloud-delivered Security Service Edge solution)
- Cisco Secure Firewall deployments in mainland China
- FTD platform migration scenarios
- AWS China Transit Gateway connectivity requirements
- Virtual checkpoint firewall environments supporting GRE only

Resolution

Cisco Secure Access China provides comprehensive VPN capabilities with specific protocol support and configuration options:

IPsec VPN Support

Cisco Secure Access China supports IPsec VPN using IKEv2 protocol only. IKEv1 is not supported in this deployment model. The supported IPsec parameters and configuration options are documented in the official Cisco Secure Access China documentation.

Key characteristics of IPsec support:

- IKEv2 protocol exclusively supported.
- No special firmware or crypto images required.
- Cloud-delivered Security Service Edge (SSE) solution.
- Standard IPsec parameter configuration available.

High Availability Options

For enhanced reliability, Cisco Secure Access China network tunnel groups support primary and secondary hub configurations with high-availability features.

Cause

No specific cause was identified.

Related Content

- Cisco Secure Access China IPsec Parameters
- Cisco Secure Access China GRE Configuration
- Supported IPsec Parameters Documentation
- Network Tunnel Groups High Availability
- VPN Deployment User Guide
- Cisco Technical Support & Downloads