Quiz #5

Question #1 : IPSec VPN

There could be many issues creating this problem and all of them would most likely occur at the end which is facing connectivity issues. Some of the things which could cause this problem are :

- Mis configuration of VPN
- Split Tunnel Configuration
- Misconfigured ACL's.

→ Trouble Shooting:

- Check VPN logs on both ends to see if traffic is being dropped, blocked or misrouted.

- Recheck that the split tunnel Configuration allows the IP, Ports or Applications to be accessed.

- Rheck the priority level of ACLs. Any ACL that is misplaced in the heirarichy could be blocking the access.

Question #2 : ESP in IPSec

Encapsulation Security Payload (ESP) is a Phase 2 policy in IPSec, where the actual data is d transmitted.

In Phase 1, only the keys are exchanged and in Phase 2 the data is transmitted.

ESP, unlike Authentication Header, also provides encryption along with integrity and authentication. ESP encrypts the payload to ensure confidentiality with anti-relay protection.

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Question #3 :

Split tunneling is a VPN feature that directs some traffic through the VPN and other traffic directly to the internet. It is commonly used in:

→ **Corporate VPNs for Remote Access**: Secure internal resources via VPN while accessing the internet directly for browsing.

→ **Hybrid Cloud Environments**: Route data centre traffic through the VPN and public cloud traffic directly to the internet.

→ **Personal VPN Services**: Secure specific site connections via VPN while maintaining direct internet access to reduce latency and access local resources.