

Name: _____

Date: _____

Score: _____

IVPN Review

Technical analysis of Gibraltar-headquartered IVPN, strict offshore privacy laws, email-free registration accounts, open-source client audits, and multi-hop routing paths.

IVPN REVIEW LEARNING OVERVIEW

LEARNER

STUDENT STATUS

Network Defender Track

SECURE

CONNECTION STATUS

Shielding data packets

100%

LEAK DEFENSE

DNS & IPv6 leak protection

Welcome! This activity packet guides you through the technical review of IVPN. You will explore Gibraltar data privacy laws, email-free random account identifiers, open-source client audits, and Multi-Hop routing topology.

WORKSHEET CHECKPOINTS

- ☐ **Part 1-4:** Master VPN and network security configurations.
- ☐ **Part 5-7:** Solve crossword & word search puzzles.
- ☐ **Part 8-9:** Solve case studies & cipher challenge.
- ☐ **Part 10:** Review basic & advanced FAQ pages.
- ☐ **Part 11:** Explore 10 interesting real-world facts.

Open the [VPN.com Best VPNs Guide](https://www.vpn.com/vpn/ivpn/)

URL: <https://www.vpn.com/vpn/ivpn/>

Your IVPN Learning Roadmap

- Analyze the technical architecture and encryption standards of IVPN Review.
- Configure client settings to prevent IP, DNS, and WebRTC traffic leaks.
- Compare proprietary tunneling protocols against standard implementations.

IVPN REVIEW INSTRUCTIONS

Answer the multiple choice and true/false questions, complete the fill-in-the-blank sentences using the word bank, match definitions, and solve the crossword and word search puzzles. Apply your knowledge to email-free registration and open-source applications.

EMAIL-FREE ANONYMITY & OPEN-SOURCE AUDITS (INTRODUCTION)

IVPN prioritizes client privacy by allowing account creation without an email address and accepting anonymous cash payments. With open-source apps, Multi-Hop routing, and Gibraltar jurisdiction, it offers some of the most robust privacy controls in the industry.

READ EACH CHECKPOINT CAREFULLY AND SELECT OR WRITE THE CORRECT RESPONSE.

Checkpoint 1: Multiple Choice Challenge

- 1 Which unique account identifier system does IVPN use to protect user registrations?**

 - ☐ A) Random Account Number (No Email)
 - ☐ B) Username/Password Link
 - ☐ C) Google OAuth Login
 - ☐ D) Two-Factor Email Token
- 2 Under which strict privacy-friendly European country does IVPN operate?**

 - ☐ A) Gibraltar
 - ☐ B) Romania
 - ☐ C) Switzerland
 - ☐ D) Germany
- 3 What security feature allows IVPN users to route their data through two distinct server nodes?**

 - ☐ A) Multi-Hop Tunnels
 - ☐ B) Smart DNS
 - ☐ C) Split Tunneling
 - ☐ D) Dynamic Port Forwarding
- 4 Which client feature does IVPN provide to block tracking cookies and adware networks?**

 - ☐ A) Anti-Tracker (DNS Filter)
 - ☐ B) Double Hop
 - ☐ C) Obfuscation
 - ☐ D) Port Forwarding
- 5 Which encryption protocol is native and default in the IVPN desktop client applications?**

 - ☐ A) WireGuard
 - ☐ B) OpenVPN
 - ☐ C) L2TP/IPSec
 - ☐ D) SSTP

Checkpoint 2: True or False Challenge

6 Question 6

IVPN allows users to pay using cash envelopes to ensure anonymous registration.

☐

True

☐

False

7 Question 7

Multi-hop routing increases latency due to double encapsulation and path distance.

☐

True

☐

False

8 Question 8

IVPN client code is proprietary and closed to public security code audits.

☐

True

☐

False

9 Question 9

IVPN does not require an email address or username to create an active account.

☐

True

☐

False

10 Question 10

The Anti-Tracker feature functions by decrypting client data packets on the host server.

☐

True

☐

False

Checkpoint 3: Key Term Insertion

Read each sentence below and fill in the blank with the correct term from the Word Bank.

1. Users can prevent tracking by routing their data through a secure _____ server configuration.
2. The native _____ implementation guarantees fast connection speeds and modern cryptography.
3. Adware and cookies are blocked at the DNS level using the built-in _____ engine.
4. IVPN supports anonymous setups by enforcing a strict _____ model (no emails).
5. All IVPN client applications are released as _____ code for public vetting.
6. IVPN operates under Gibraltar, which enforces strong local _____ protecting client data.

VOCABULARY WORD BANK

Multi-Hop
Open Source

WireGuard
Privacy Laws

Anti-Tracker
Encryption

No Registration
Audited

Write your answers here:

1.

2.

3.

4.

5.

6.

Checkpoint 4: VPN & Network Concept Match

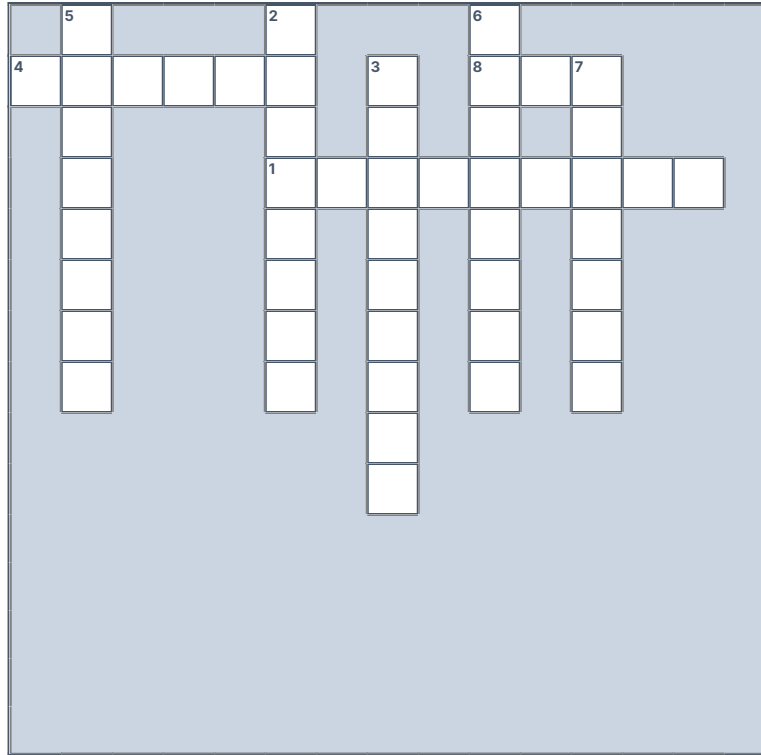
DEFINITION MATCHING

Match each vocabulary term on the left with its correct definition on the right by writing the corresponding letter (A-H) in the fillable input box.

Multi-Hop	G Cryptographic masking of data payloads to secure transit streams.
WireGuard	A Routing data packets through two separate server nodes sequentially.
Anti-Tracker	F Legal framework protecting corporate and client records from exposure.
No Registration	C DNS filter engine that blocks connection requests to adware trackers.
Open Source	D Creating accounts using random numbers without any email address requirements.
Privacy Laws	B Modern high-speed protocol optimized for kernel processing speed.
Encryption	H Independently inspected by third parties to verify security claims.
Audited	E Software model where code is publicly available for verification.

Checkpoint 5: Crossword Puzzle

Solve the crossword puzzle by typing letters into the active white boxes. The numbers correspond to the clues below.



ACROSS

1. Process of wrapping data packets inside other packets (9)
4. Remote server that routes traffic and hides your IP (6)
8. Internet Service Provider, logs traffic unless encrypted (3)

DOWN

2. Rules determining how data is sent and encrypted (8)
3. Rate of data transfer across a path (9)
5. Blocking site access based on location (8)
6. Security system that monitors and blocks traffic (8)
7. State of being free from tracking or surveillance (7)

Checkpoint 5 Alternative: Accessible Crossword Clues

Screen-reader and keyboard users can type the crossword answers directly in the text fields below.

ACROSS CLUES

1 Across: Double server routing tunnel model. (8) (8 letters):

4 Across: Modern open-source speed protocol. (9) (9 letters):

5 Across: DNS level adware blocking filter. (7) (7 letters):

7 Across: Email-free random account creation. (12) (12 letters):

DOWN CLUES

2 Down: Publicly auditable software model. (10) (10 letters):

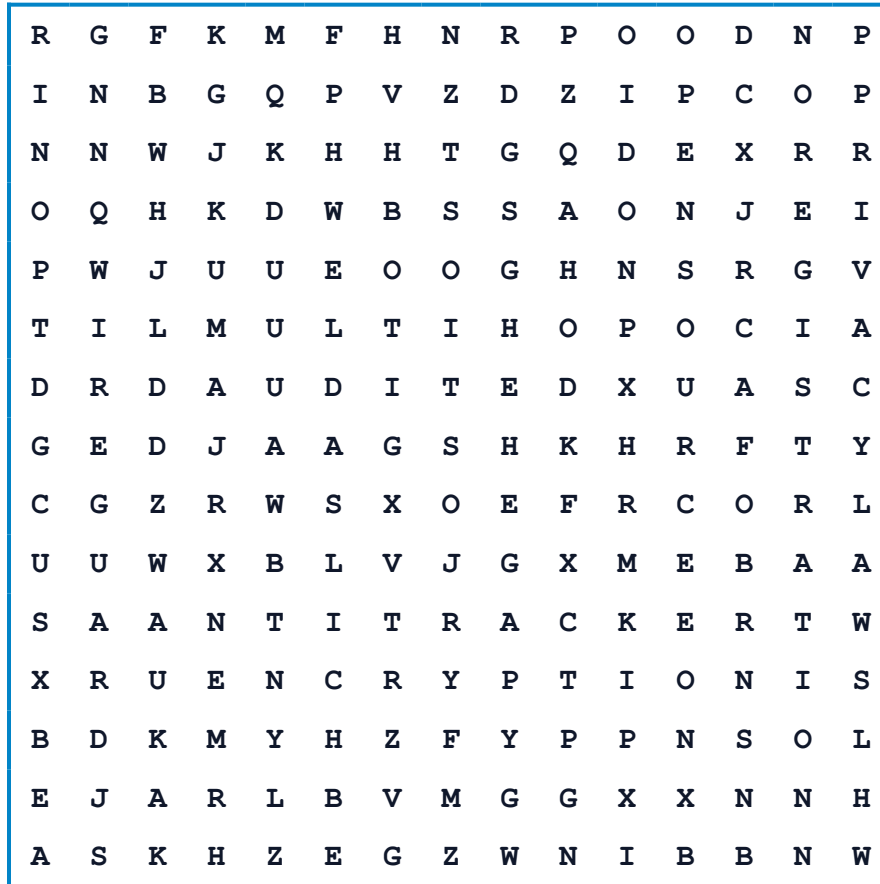
3 Down: Local regulatory data privacy protections. (7) (7 letters):

6 Down: Cryptographic data masking standards. (10) (10 letters):

8 Down: Independently verified security posture. (7) (7 letters):

Checkpoint 6: Hidden Word Search

Find the 8 key vocabulary terms hidden in the grid below. Words can be horizontal, vertical, or diagonal.



VOCABULARY WORD LIST

Multi-Hop
Open Source

WireGuard
Privacy Laws

Anti-Tracker
Encryption

No Registration
Audited

Checkpoint 6 Alternative: Accessible Vocabulary Matching

Match each of the 8 vocabulary terms from the Word Search to its correct definition by writing the letter (A-H) in the blank space.

VOCABULARY TERMS

- A. Multi-Hop
- B. WireGuard
- C. Anti-Tracker
- D. No Registration
- E. Open Source
- F. Privacy Laws
- G. Encryption
- H. Audited

DEFINITIONS & MATCH FIELDS

- 1. Double server hop routing encrypting data twice.
- 2. Default high-performance open-source tunneling protocol.
- 3. DNS filtering blocker stopping adware cookie trackers.
- 4. Email-free signup using random account identifiers.
- 5. Publicly vetting client source code applications.
- 6. Gibraltar data privacy legal jurisdiction protections.
- 7. Cryptographic scrambling securing client data streams.
- 8. Independently vetted zero logs security posture.

Checkpoint 7: Scrambled Word Challenge

Unscramble the letters below to reveal key Virtual Private Network (VPN) concepts and terms. Write your answers in the input boxes provided.

1. ULTIHOPM

5. PENSOURCEO

2. IREGUARDW

6. RIVACYP

3. RACKERT

7. NCRYPTONE

4. EGISTRATIONR

8. UDITEDA

Checkpoint 8: VPN & Network Case Studies

Apply the concepts you have learned to solve the real-world scenarios below.



CASE STUDY 1: THREAT MODELING FOR PRIVACY

Scenario: A journalist in a hostile country needs to configure a VPN that prevents surveillance and guarantees that no user logs can trace back to them.

Discussion Question: Why is the random account number model (no email address required) superior for anonymity compared to standard email registrations?



CASE STUDY 2: MULTI-HOP TOPOLOGY ROUTING

Scenario: An analyst wants to access secure databases by cascading encryption across two separate countries using IVPN Multi-Hop routing.

Discussion Question: How does Multi-Hop routing protect against traffic analysis attacks compared to single-hop connections?

Final Challenge: Decrypting the Cipher

A network engineer secures routing channels and client tunnels. Use the Letter-to-Number key below to decrypt the message by writing the matching letters in the blank spaces.

LETTER-TO-NUMBER ENCRYPTION KEY

A=1	B=2	C=3	D=4	E=5	F=6	G=7	H=8	I=9	J=10	K=11	L=12	M=13
N=14	O=15	P=16	Q=17	R=18	S=19	T=20	U=21	V=22	W=23	X=24	Y=25	Z=26

9 22 16 14 5 14 1 2 12 5 19

1 14 15 14 25 13 15 21 19 1 3 3 15 21 14 20

19 21 2 19 3 18 9 16 20 9 15 14 19 5 20 21 16

6 12 15 23 19

Decoded cybersecurity message:

TIP: EACH NUMBER REPRESENTS THE POSITION OF THAT LETTER IN THE ALPHABET (E.G. 1 = A, 2 = B, 26 = Z).

Checkpoint 10: Basic VPN FAQs (Part A)

Review the most common questions and answers regarding Virtual Private Networks (VPNs) and tunneling.

Q1: Do I need an email to sign up for IVPN?

No, it generates a random account ID for registration.

Q2: Where is IVPN headquartered?

It is based in Gibraltar, outside EU and US jurisdictions.

Q3: What is Multi-Hop routing?

It routes traffic through two separate servers in series for double encryption.

Q4: Does IVPN keep traffic logs?

No, it has a strict zero-logs policy verified by audits.

Q5: Does it offer open-source applications?

Yes, all IVPN client applications are fully open-source.

Checkpoint 10: Basic VPN FAQs (Part B)

Review the most common questions and answers regarding Virtual Private Networks (VPNs) and tunneling.

Q6: What protocols are supported by IVPN?

It supports WireGuard, OpenVPN, and IPSec protocols.

Q7: Does it include an ad blocker?

Yes, the AntiTracker feature blocks ads, trackers, and malware domains.

Q8: Can I pay anonymously?

Yes, it accepts cash by mail, Monero, Bitcoin, and credit cards.

Q9: Does it support a kill switch?

Yes, the IVPN Firewall acts as a robust kill switch.

Q10: How many devices can I connect?

Premium supports up to 7 devices, while standard supports up to 2.

Checkpoint 11: Advanced VPN FAQs (Part A)

Explore advanced technical aspects of VPN tunneling protocols, mobile client integrations, and enterprise deployment.

Q1: How does Gibraltar jurisdiction protect privacy?

Gibraltar has strong privacy laws and is not a member of global intelligence alliances.

Q2: How does email-free signup protect user identity?

It ensures that even if IVPN is compromised, no personal emails are linked to accounts.

Q3: How does the IVPN Firewall prevent DNS leaks?

It operates at the kernel level to block all non-VPN traffic.

Q4: How does Multi-Hop protect against correlation attacks?

The entry server does not know the destination, and the exit server does not know the client's IP.

Q5: How does AntiTracker filter DNS queries?

It intercepts DNS requests and blocks matching advertising and tracking domains.

Checkpoint 11: Advanced VPN FAQs (Part B)

Explore advanced technical aspects of VPN tunneling protocols, mobile client integrations, and enterprise deployment.

Q6: What encryption keys are used for WireGuard?

It uses Curve25519 for key exchange and ChaCha20-Poly1305 for encryption.

Q7: How does IVPN verify its zero-logs claims?

It undergoes annual audits by Cure53 and publishes the full reports.

Q8: Can I configure custom port forwarding?

IVPN does not support port forwarding to prevent security vulnerabilities.

Q9: How does Obfsproxy obfuscation operate?

It wraps OpenVPN traffic in an obfuscation layer to look like random noise.

Q10: Does IVPN support self-hosted DNS resolvers?

Yes, users can specify custom DNS servers in client settings.

Part 11: 10 Real-World VPN Facts & Insights

Review real-world facts regarding VPN encryption speeds, protocol audits, mobile connectivity, and enterprise remote work.

1. VPN INSIGHT

IVPN was founded in 2009 by privacy advocates to provide uncompromising privacy tools.

2. VPN INSIGHT

Gibraltar is a British Overseas Territory with independent legal systems and data protection regulations.

3. VPN INSIGHT

The IVPN Firewall is implemented using native system tools like WFP on Windows and pf on macOS.

4. VPN INSIGHT

Cure53 audits IVPN's server infrastructure and client applications regularly to ensure security.

5. VPN INSIGHT

It does not offer a free tier, relying solely on premium subscriptions to prevent data monetization.

6. VPN INSIGHT

Multi-Hop configurations route traffic across different hosting providers to increase network diversity.

7. VPN INSIGHT

AntiTracker uses public blocklists (like StevenBlack) to filter tracking scripts and advertisements.

8. VPN INSIGHT

The company is a member of the VPN Trust Initiative, promoting ethical practices in the industry.

9. VPN INSIGHT

Its random account ID generation prevents correlation of payment details with account usage.

10. VPN INSIGHT

WireGuard connections are assigned temporary internal IP addresses that are deleted on disconnect.

Technical References & Sources

The study guide and interactive puzzles are compiled from global technical standards, specifications, and regulatory frameworks.

SCHOLARLY & INDUSTRY REFERENCES

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- [3] IVPN. (2026). Multi-Hop and Custom Port Routing. Retrieved from <https://www.ivpn.net/>
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Answer Key: Checkpoint 1 - Multiple Choice

1 Random ID

RANDOM NUMBER

Correct Answer: A

TEACHING NOTE

IVPN generates random account numbers instead of requiring emails.

Citation: IVPN Support [Ref 9].

2 Gibraltar Laws

GIBALTAR

Correct Answer: A

TEACHING NOTE

IVPN is incorporated in Gibraltar, outside standard surveillance data sharing.

Citation: IVPN Support [Ref 2].

3 Multi-Hop Routing

MULTI-HOP TUNNELS

Correct Answer: A

TEACHING NOTE

Multi-Hop routes data through two separate servers in series.

Citation: IVPN Support [Ref 3].

4 Anti-Tracker Filter

ANTI-TRACKER

Correct Answer: A

TEACHING NOTE

The Anti-Tracker blocks cookies and ads at the DNS level.

Citation: IVPN Support [Ref 6].

5 WireGuard Protocol

WIREGUARD

Correct Answer: A

TEACHING NOTE

WireGuard protocol provides high-speed, modern kernel cryptography.

Citation: IVPN Support [Ref 8].

Answer Key: Checkpoint 2 - True or False

6 Cash Payments

CASH ENVELOPE

Correct Answer: True

TEACHING NOTE

IVPN accepts cash payments sent in envelopes to protect anonymity.

Citation: IVPN Support [Ref 2].

7 Multi-Hop Latency

PATH LATENCY

Correct Answer: True

TEACHING NOTE

Multi-hop routing increases latency due to double routing hops.

Citation: IVPN Support [Ref 3].

8 Open Source

OPEN CODE

Correct Answer: False

TEACHING NOTE

All IVPN client applications are released under open-source licenses.

Citation: IVPN Support [Ref 5].

9 No Email

RANDOM ID

Correct Answer: True

TEACHING NOTE

IVPN does not require an email or personal information to sign up.

Citation: IVPN Support [Ref 9].

10 Anti-Tracker

DNS BLOCKING

Correct Answer: False

TEACHING NOTE

Anti-Tracker functions by blocking domains at the DNS level, not decrypting packets.

Citation: IVPN Support [Ref 6].

Vocabulary Keys & Grading Rubric

Instructor Grading Rubric: Award 1 point for each correct matching (8 points total) and context term (6 points total).

CHECKPOINT 4: CONCEPT MATCH KEY

A Multi-Hop

B WireGuard

C Anti-Tracker

D No Registration

E Open Source

F Privacy Laws

G Encryption

H Audited

CHECKPOINT 3: KEY TERM KEY

1 Multi-Hop

2 WireGuard

3 Anti-Tracker

4 No Registration

5 Open Source

6 Privacy Laws

DISCUSSION NOTES FOR INSTRUCTORS

Valuation Accuracy:

Verify that students understand how domain length, extension (.com, .ai), and commercial search volume drive appraisal pricing.

Escrow Security:

Emphasize that funds are held in licensed third-party holding accounts prior to domain WHOIS transfer verification.

Stealth Representation:

Highlight the role of NDAs and third-party representation in preventing speculative price gouging during corporate procurement.

Puzzles Keys & Instructor Notes

WORD SEARCH SOLUTION

R	G	F	K	M	F	H	N	R	P	O	O	D	N	P
I	N	B	G	Q	P	V	Z	D	Z	I	P	C	O	P
N	N	W	J	K	H	H	T	G	Q	D	E	X	R	R
O	Q	H	K	D	W	B	S	S	A	O	N	J	E	I
P	W	J	U	U	E	O	O	G	H	N	S	R	G	V
T	I	L	M	U	L	T	I	H	O	P	O	C	I	A
D	R	D	A	U	D	I	T	E	D	X	U	A	S	C
G	E	D	J	A	A	G	S	H	K	H	R	F	T	Y
C	G	Z	R	W	S	X	O	E	F	R	C	O	R	L
U	U	W	X	B	L	V	J	G	X	M	E	B	A	A
S	A	A	N	T	I	T	R	A	C	K	E	R	T	W
X	R	U	E	N	C	R	Y	P	T	I	O	N	I	S
B	D	K	M	Y	H	Z	F	Y	P	P	N	S	O	L
E	J	A	R	L	B	V	M	G	G	X	X	N	N	H
A	S	K	H	Z	E	G	Z	W	N	I	B	B	N	W

CROSSWORD SOLUTION

		5	G				2	P				6	F		
4	S	E	R	V	E	R		3	B		8	I	S	7	P
		O				O			A			R		R	
	B					1	T	U	N	N	E	L	I	N	G
	L					O		D			W		V		
	O					C		W			A		A		
	C					O		I			L		C		
	K					L		D			L		Y		
								T							
								H							

INSTRUCTOR GUIDE FOR CROSSWORD SOLUTIONS

ACROSS CLUES

- 1 Across:** **TUNNELING** Process of wrapping data packets. (3, 5)
- 4 Across:** **SERVER** Remote computer routing traffic. (1, 0)
- 8 Across:** **ISP** Internet Service Provider. (1, 9)

DOWN CLUES

- 2 Down:** **PROTOCOL** Rules determining data transmission. (0, 5)
- 3 Down:** **BANDWIDTH** Rate of data transfer. (1, 7)
- 5 Down:** **GEOBLOCK** Location website restriction. (0, 1)
- 6 Down:** **FIREWALL** Security monitor barrier. (0, 9)
- 7 Down:** **PRIVACY** State of freedom from tracking. (1, 11)

Scrambled Words & Cipher Solution Key

Grading key for the vocabulary word unscramble activity and Secret Cipher Challenge.

WORD UNSCRAMBLE KEY

1. ULTIHOPM

MULTIHOP

5. PENSOURCEO

OPENSOURCE

2. IREGUARDW

WIREGUARD

6. RIVACYP

PRIVACY

3. RACKERT

TRACKER

7. NCRYPTIONE

ENCRYPTION

4. EGISTRATIONR

REGISTRATION

8. UDITEDA

AUDITED

SECRET CIPHER CHALLENGE KEY

**"IVPN ENABLES ANONYMOUS ACCOUNT SUBSCRIPTION
SETUP FLOWS"**

VPN & Network Case Studies Solution Key

A Case Study 1: Threat Modeling for Privac

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A journalist in a hostile country needs to configure a VPN that prevents surveillance and guarantees that no user logs can trace back to them.
- **Recommended Strategy & Solution:** Grading Guidance: Explain that email addresses act as unique identifiers linking the account to real identities. Removing them prevents database leaks from linking traffic back to the user.

B Case Study 2: Multi-Hop Topology Routir

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** An analyst wants to access secure databases by cascading encryption across two separate countries using IVPN Multi-Hop routing.
- **Recommended Strategy & Solution:** Grading Guidance: Multi-Hop separates entry and exit nodes, ensuring that a single compromised node cannot correlate incoming user traffic with outgoing destination traffic.