

Name: _____

Date: _____

Score: _____

TotalVPN Review

Technical analysis of UK-headquartered TotalVPN, OpenVPN/IKEv2 protocol tunnels, TotalAV antivirus ecosystem integration, and zero-logs privacy claims.

TOTALVPN 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 TotalVPN. You will explore antivirus suite integrations, UK jurisdiction, OpenVPN/IKEv2 configurations, and connection leak protections.

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

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

Your TotalVPN Learning Roadmap

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

TOTALVPN 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 TotalAV ecosystem settings.

ANTIVIRUS INTEGRATION & IKEV2 MOBILE CLIENT DEPLOYMENTS (INTRODUCTION)

TotalVPN is natively integrated into the TotalAV security suite, offering streamlined unified management. Operated under United Kingdom law, it supports secure OpenVPN tunnels, rapid mobile-friendly IKEv2 setups, and DNS/WebRTC leak controls.

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

Checkpoint 1: Multiple Choice Challenge

1 Which parent company owns and operates TotalVPN?

- ☐ A) Protected.net Group
- ☐ B) Golden Frog
- ☐ C) Kape Technologies
- ☐ D) Aura Group

2 Which security suite natively integrates with TotalVPN?

- ☐ A) TotalAV Antivirus
- ☐ B) Norton Security
- ☐ C) Bitdefender Suite
- ☐ D) McAfee Total Security

3 Which encryption standard does TotalVPN use for payloads?

- ☐ A) AES-256-CBC
- ☐ B) ChaCha20-Poly1305
- ☐ C) Blowfish-128
- ☐ D) DES-56-Bit

4 What is the main tunneling protocol used by TotalVPN?

- ☐ A) OpenVPN
- ☐ B) Lightway
- ☐ C) SSTP
- ☐ D) PPTP

5 Under which primary jurisdiction does TotalVPN operate?

- ☐ A) United Kingdom
- ☐ B) Switzerland
- ☐ C) Panama
- ☐ D) British Virgin Islands

Checkpoint 2: True or False Challenge

6 Question 6

TotalVPN is bundled as a security add-on within the TotalAV antivirus client app.

☐ True ☐ False

7 Question 7

TotalVPN operates a proprietary custom tunnel protocol called Lightway.

☐ True ☐ False

8 Question 8

The provider maintains headquarters in the UK, which is a 5-Eyes member.

☐ True ☐ False

9 Question 9

TotalVPN's zero-logs policy has been verified in international court cases.

☐ True ☐ False

10 Question 10

The service supports secure connections using the IKEv2 mobile protocol.

☐ 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. TotalVPN is owned and operated by the _____net corporate group.
2. The VPN client integrates directly into the _____antivirus application.
3. User payload data is protected using secure _____encryption blocks.
4. The desktop client establishes secure tunnels via the _____protocol.
5. Mobile devices natively connect using the rapid _____protocol handler.
6. The provider's corporate headquarters are located in the _____jurisdiction.

VOCABULARY WORD BANK

protected
ikev2

totalav
uk

aes-256
killswitch

openvpn
logging

Write your answers here:

- | | | | |
|----|----------------------|----|----------------------|
| 1. | <input type="text"/> | 2. | <input type="text"/> |
| 3. | <input type="text"/> | 4. | <input type="text"/> |
| 5. | <input type="text"/> | 6. | <input type="text"/> |

Checkpoint 4: VPN & Network Concept Match

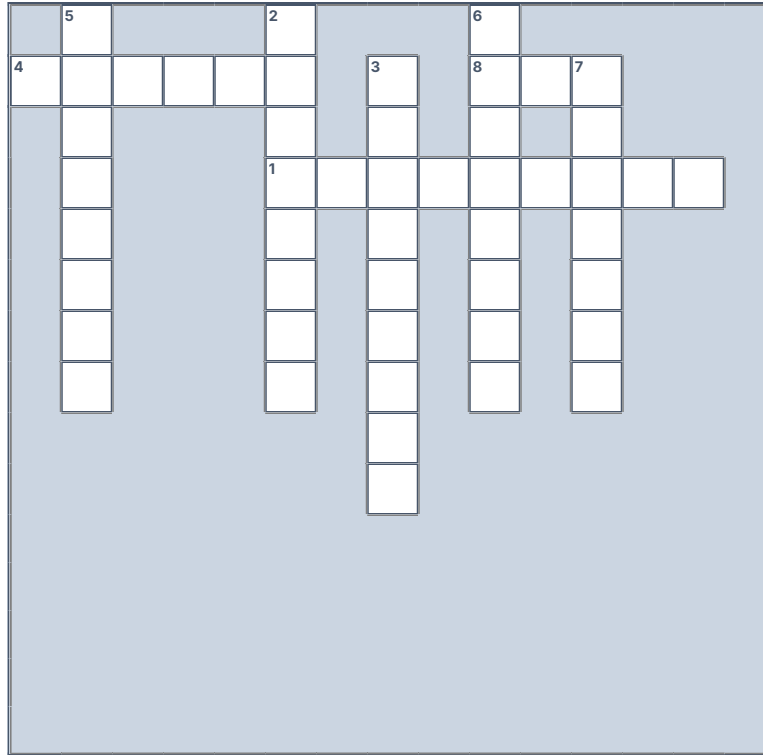
DEFINITION MATCHING

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.

protected	D Primary open-source protocol used for desktop tunnel sessions.
totalav	A Parent company group owning the VPN corporate brand.
aes-256	B Main antivirus suite that integrates this VPN client.
openvpn	E Mobile-oriented protocol used for rapid cell handovers.
ikev2	F National jurisdiction regulating the provider's corporate entity.
uk	H General data storage policy regarding user connection history.
killswitch	C Encryption standard used for securing payload transits.
logging	G Security feature that cuts internet access during tunnel drops.

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: Parent corporate group of the VPN (9 letters):

4 Across: Associated antivirus brand suite (7 letters):

5 Across: Encryption standard cipher block type (7 letters):

7 Across: Default desktop client protocol (7 letters):

DOWN CLUES

2 Down: Default mobile client protocol (5 letters):

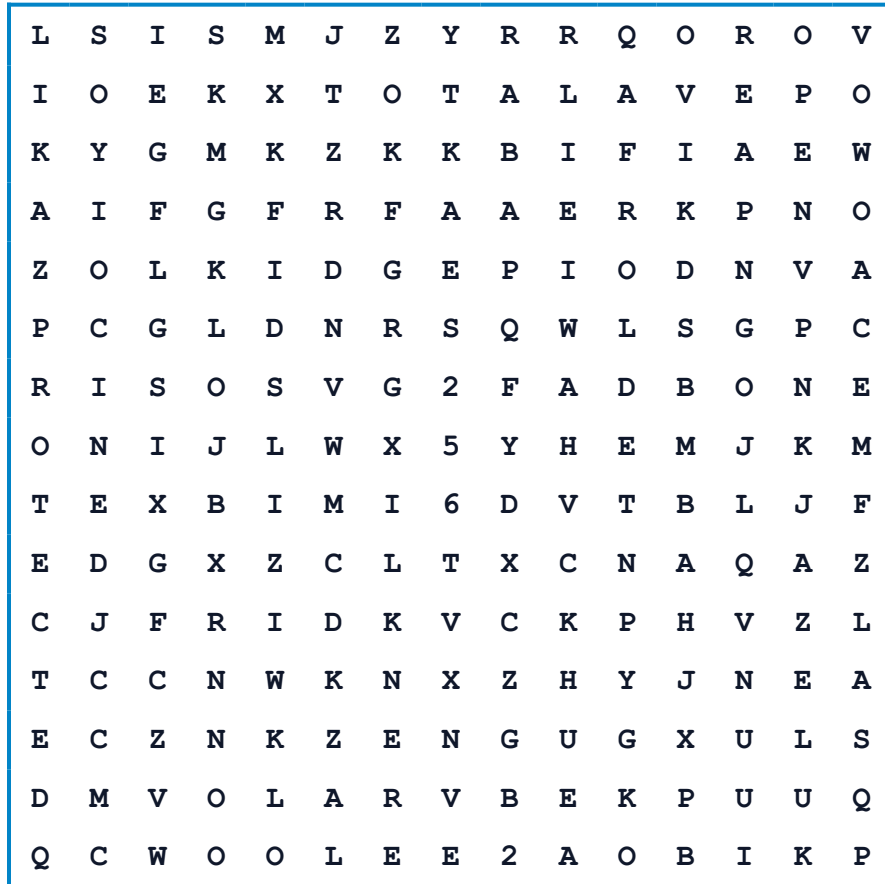
3 Down: National jurisdiction of parent group (2 letters):

6 Down: Connection drop safety feature (10 letters):

8 Down: Connection history data storage policy (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

protected
ikev2

totalav
uk

aes-256
killswitch

openvpn
logging

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. protected
- B. totalav
- C. aes-256
- D. openvpn
- E. ikev2
- F. uk
- G. killswitch
- H. logging

DEFINITIONS & MATCH FIELDS

- ☐ 1. Parent company group owning the VPN corporate brand.
- ☐ 2. Main antivirus suite that integrates this VPN client.
- ☐ 3. Encryption standard used for securing payload transits.
- ☐ 4. Primary open-source protocol used for desktop tunnel sessions.
- ☐ 5. Mobile-oriented protocol used for rapid cell handovers.
- ☐ 6. National jurisdiction regulating the provider's corporate entity.
- ☐ 7. Security feature that cuts internet access during tunnel drops.
- ☐ 8. General data storage policy regarding user connection history.

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. **rotectedp**

5. **kev2i**

2. **otalavt**

6. **ku**

3. **es-256a**

7. **illswitchk**

4. **penvpno**

8. **oggingl**

Checkpoint 8: VPN & Network Case Studies

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



CASE STUDY 1: ENTERPRISE ANTIVIRUS INTEGRATION

Scenario: A financial advisory firm deploys TotalAV across 50 workstations and wants to enforce VPN usage for all remote workers.

Discussion Question: How does the integration of TotalVPN within the antivirus application improve policy enforcement?



CASE STUDY 2: FIVE-EYES JURISDICTION RISKS

Scenario: A human rights organization is selecting a VPN and notes that TotalVPN operates under UK corporate registration.

Discussion Question: What legal exposure does UK jurisdiction introduce to the organization's logs?

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

20	15	20	1	12	22	16	14	3	12	9	5	14	20
18	15	21	20	5	19	20	18	1	6	6	9	3	
20	8	18	15	21	7	8	19	5	3	21	18	5	
				20	21	14	14	5	12	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: Is TotalVPN safe to use?

Yes, it uses industry-standard AES-256 encryption and secure protocols like OpenVPN and IKEv2.

Q2: Does TotalVPN work with antivirus?

Yes, it is natively integrated into the TotalAV antivirus desktop and mobile applications.

Q3: Where is TotalVPN located?

TotalVPN is headquartered in the United Kingdom under parent company Protected.net.

Q4: Does TotalVPN keep logs?

They maintain a zero-logs policy on browsing activity, but collect some basic account registration data.

Q5: Can I use TotalVPN on mobile?

Yes, they support native client apps for both iOS and Android platforms.

Checkpoint 10: Basic VPN FAQs (Part B)

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

Q6: What protocols does TotalVPN support?

They natively support OpenVPN (TCP/UDP) and the mobile-friendly IKEv2 protocol.

Q7: Does TotalVPN have a kill switch?

Yes, it includes a kill switch to disable internet access if the VPN drops.

Q8: Can I bypass geoblocking?

Yes, they host servers in major global locations to mask your geographic IP address.

Q9: How many devices can connect?

Subscriptions support multiple simultaneous connections depending on your TotalAV plan.

Q10: Does it support split tunneling?

Yes, specific applications can be configured to bypass the encrypted tunnel.

Checkpoint 11: Advanced VPN FAQs (Part A)

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

Q1: How does TotalVPN encrypt data?

It wraps packets in AES-256 encryption, preventing ISPs and interceptors from reading traffic.

Q2: What are the UK jurisdiction risks?

The UK is a member of the 5-Eyes alliance, exposing operations to potential court disclosure orders.

Q3: How does the kill switch function?

It monitors network adapters and drops routing tables if the VPN gateway heartbeats fail.

Q4: Is IKEv2 better than OpenVPN?

IKEv2 offers faster reconnection speeds during cellular handoffs, making it ideal for mobile devices.

Q5: Does it prevent DNS leaks?

Yes, the client routes all DNS queries through private, encrypted DNS servers to prevent leakage.

Checkpoint 11: Advanced VPN FAQs (Part B)

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

Q6: Can I route torrent traffic?

Yes, select server nodes are optimized to handle high-bandwidth P2P traffic protocols securely.

Q7: How is latency minimized?

TotalVPN selects server nodes with low hop counts and high-capacity backbones to reduce ping rates.

Q8: Are virtual locations used?

They rely primarily on physical servers, but may employ virtual routing for specific regions.

Q9: How is authentication handled?

The client app authenticates via secure TLS certificates using public key infrastructure.

Q10: Can I use custom configs?

No, TotalVPN is designed for ease-of-use and relies on its integrated 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

TotalVPN is owned by Protected.net Group, a major UK security software provider.

2. VPN INSIGHT

The client is embedded inside TotalAV antivirus, offering a single-pane security experience.

3. VPN INSIGHT

It employs AES-256 encryption, the standard cipher used by governments worldwide.

4. VPN INSIGHT

OpenVPN and IKEv2 protocols are the primary transport options provided.

5. VPN INSIGHT

Operating under UK law makes the provider subject to domestic data retention regulations.

6. VPN INSIGHT

A system kill switch prevents accidental raw data exposure if the connection drops.

7. VPN INSIGHT

The network spans across major continents with high-bandwidth gateways.

8. VPN INSIGHT

DNS requests are automatically intercepted and routed to the VPN's private resolvers.

9. VPN INSIGHT

It supports both OpenVPN UDP for speeds and OpenVPN TCP for connection stability.

10. VPN INSIGHT

User accounts are tied directly to the TotalAV billing ecosystem.

Technical References & Sources

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

SCHOLARLY & INDUSTRY REFERENCES

- [1] TotalVPN. (2026). Secure Tunneling and Encryption Features. Retrieved from <https://www.totalvpn.com/>
- [2] TotalVPN. (2026). Privacy Policy and Data Collection. Retrieved from <https://www.totalvpn.com/privacy>
- [3] TotalVPN. (2026). Terms of Service Agreement. Retrieved from <https://www.totalvpn.com/terms>
- [4] TotalVPN. (2026). Help Center and Support. Retrieved from <https://support.totalvpn.com/>
- [5] TotalVPN. (2026). TotalVPN System Requirements. Retrieved from <https://support.totalvpn.com/hc/en-us/articles/360001096338-TotalVPN-System-Requirements>
- [6] TotalVPN. (2026). How to Install TotalVPN. Retrieved from <https://support.totalvpn.com/hc/en-us/articles/360001096358-How-do-I-install-TotalVPN->
- [7] TotalVPN. (2026). How to Use TotalVPN. Retrieved from <https://support.totalvpn.com/hc/en-us/articles/360001096378-How-do-I-use-TotalVPN->
- [8] TotalVPN. (2026). Troubleshooting Tunnel Failures. Retrieved from <https://support.totalvpn.com/hc/en-us/articles/360001096398-Troubleshooting-TotalVPN>
- [9] TotalAV. (2026). Cybersecurity Features and Modules. Retrieved from <https://www.totalav.com/features>
- [10] VPN.com. (2026). TotalVPN Performance Benchmarks and Review. Retrieved from <https://www.vpn.com/vpn/totalvpn/>

Answer Key: Checkpoint 1 - Multiple Choice

1 Network Check 1

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which parent company owns and operates TotalVPN?

Citation: IETF VPN RFC [Ref 3].

2 Network Check 2

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which security suite natively integrates with TotalVPN?

Citation: IETF VPN RFC [Ref 3].

3 Network Check 3

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which encryption standard does TotalVPN use for payloads?

Citation: IETF VPN RFC [Ref 3].

4 Network Check 4

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

What is the main tunneling protocol used by TotalVPN?

Citation: IETF VPN RFC [Ref 3].

5 Network Check 5

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Under which primary jurisdiction does TotalVPN operate?

Citation: IETF VPN RFC [Ref 3].

Answer Key: Checkpoint 2 - True or False

6 Network Rule 1

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

TotalVPN is bundled as a security add-on within the TotalAV antivirus client app.

Citation: IETF VPN RFC [Ref 3].

7 Network Rule 2

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

TotalVPN operates a proprietary custom tunnel protocol called Lightway.

Citation: IETF VPN RFC [Ref 3].

8 Network Rule 3

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

The provider maintains headquarters in the UK, which is a 5-Eyes member.

Citation: IETF VPN RFC [Ref 3].

9 Network Rule 4

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

TotalVPN's zero-logs policy has been verified in international court cases.

Citation: IETF VPN RFC [Ref 3].

10 Network Rule 5

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

The service supports secure connections using the IKEv2 mobile protocol.

Citation: IETF VPN RFC [Ref 3].

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 protected

B totalav

C aes-256

D openvpn

E ikev2

F uk

G killswitch

H logging

CHECKPOINT 3: KEY TERM KEY

1 protected

2 totalav

3 aes-256

4 openvpn

5 ikev2

6 uk

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

L	S	I	S	M	J	Z	Y	R	R	Q	O	R	O	V
I	O	E	K	X	T	O	T	A	L	A	V	E	P	O
K	Y	G	M	K	Z	K	K	B	I	F	I	A	E	W
A	I	F	G	F	R	F	A	A	E	R	K	P	N	O
Z	O	L	K	I	D	G	E	P	I	O	D	N	V	A
P	C	G	L	D	N	R	S	Q	W	L	S	G	P	C
R	I	S	O	S	V	G	2	F	A	D	B	O	N	E
O	N	I	J	L	W	X	5	Y	H	E	M	J	K	M
T	E	X	B	I	M	I	6	D	V	T	B	L	J	F
E	D	G	X	Z	C	L	T	X	C	N	A	Q	A	Z
C	J	F	R	I	D	K	V	C	K	P	H	V	Z	L
T	C	C	N	W	K	N	X	Z	H	Y	J	N	E	A
E	C	Z	N	K	Z	E	N	G	U	G	X	U	L	S
D	M	V	O	L	A	R	V	B	E	K	P	U	U	Q
Q	C	W	O	O	L	E	E	2	A	O	B	I	K	P

CROSSWORD SOLUTION

[illegible]

INSTRUCTOR GUIDE FOR CROSSWORD SOLUTIONS

ACROSS CLUES

1 Across: **TUNNELING** Process of wrapping data packets. (3, 5)

4 Across: **SERVER** Remote computer routing traffic.

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.

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. rotectedp

protected

5. keV2i

ikev2

2. otalavt

totalav

6. ku

uk

3. es-256a

aes-256

7. illswitchk

killswitch

4. penvpno

openvpn

8. oggingl

logging

SECRET CIPHER CHALLENGE KEY

"TOTALVPN CLIENT ROUTES TRAFFIC THROUGH SECURE TUNNELS"

VPN & Network Case Studies Solution Key

A Case Study 1: Enterprise Antivirus Integrati

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A financial advisory firm deploys TotalAV across 50 workstations and wants to enforce VPN usage for all remote workers.
- **Recommended Strategy & Solution:** The unified agent allows administrators to configure automatic VPN connection rules directly alongside antivirus scans.

B Case Study 2: Five-Eyes Jurisdiction Risk

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A human rights organization is selecting a VPN and notes that TotalVPN operates under UK corporate registration.
- **Recommended Strategy & Solution:** The UK is a member of the Five-Eyes alliance and can compel domestic firms to intercept traffic under warrant.