

Name: _____

Date: _____

Score: _____

IPVanish Review

Technical analysis of US-headquartered IPVanish VPN, self-owned tier-1 server infrastructure, high-performance WireGuard routing, SOCKS5 proxy features, and zero-logs policy validation.

IPVANISH 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 IPVanish. You will explore self-owned physical infrastructure, SOCKS5 proxies for P2P torrenting, WireGuard performance, and US jurisdictional data regulations.

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/ipvanish/>

Your IPVanish Learning Roadmap

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

IPVANISH 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 SOCKS5 proxies and self-owned server infrastructure.

SELF-OWNED INFRASTRUCTURE & SOCKS5 P2P PROXIES (INTRODUCTION)

IPVanish stands out by owning and managing a large portion of its physical server network, which improves performance and security. It offers the high-speed WireGuard protocol and SOCKS5 proxies for P2P torrenting, but operates under US Five Eyes jurisdiction.

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

Checkpoint 1: Multiple Choice Challenge

1 Which open-source protocol is default for high speed in IPVanish client apps?

- ☐ A) WireGuard
- ☐ B) L2TP/IPSec
- ☐ C) PPTP
- ☐ D) Catapult Hydra

2 What type of server proxy does IPVanish provide to assist with P2P torrenting setups?

- ☐ A) SOCKS5 Proxy
- ☐ B) HTTP Proxy
- ☐ C) Tor Relay
- ☐ D) Shadowsocks

3 Which independent firm audited IPVanish to certify their zero-logs data policy?

- ☐ A) Leviathan Security Group
- ☐ B) PwC
- ☐ C) Deloitte
- ☐ D) Cure53

4 Under what primary national jurisdiction does IPVanish corporate entities operate?

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

5 How many simultaneous device connections are allowed under a premium IPVanish plan?

- ☐ A) Unlimited
- ☐ B) Five
- ☐ C) Ten
- ☐ D) Seven

Checkpoint 2: True or False Challenge

6 Question 6

IPVanish manages and owns a large portion of its physical server infrastructure.

☐ True ☐ False

7 Question 7

SOCKS5 proxy traffic is fully encrypted in transit just like standard VPN tunnels.

☐ True ☐ False

8 Question 8

The IPVanish desktop client lacks a system-level Kill Switch feature.

☐ True ☐ False

9 Question 9

IPVanish operates from the United States, a Five Eyes intelligence member.

☐ True ☐ False

10 Question 10

Split tunneling in IPVanish allows routing app traffic outside the VPN tunnel.

☐ 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. The modern _____ protocol is configured by default for optimized routing performance.
2. P2P traffic can be routed through a fast _____ to mask real client locations.
3. Connecting to a close geographical node maximizes the actual _____ rates.
4. To prevent data leaks, users should configure the built-in _____ controls.
5. Independent security audits have certified the provider's _____ commitment.
6. Unlike some competitors, IPVanish imposes no active _____ on accounts.

VOCABULARY WORD BANK

WireGuard
Audited Logs

SOCKS5 Proxy
Device Limit

Server Speed
IP Address

Kill Switch
Security

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.

WireGuard

B Non-encrypted proxy routing system used to mask P2P client locations.

SOCKS5 Proxy

H Overall protection posture of the encrypted tunnel system.

Server Speed

F Constraint restricting the count of active device sessions.

Kill Switch

A Open-source protocol known for speed and modern cryptography.

Audited Logs

G Unique network identifier assigned to devices on the internet.

Device Limit

D Failsafe mechanism that blocks internet traffic if the VPN fails.

IP Address

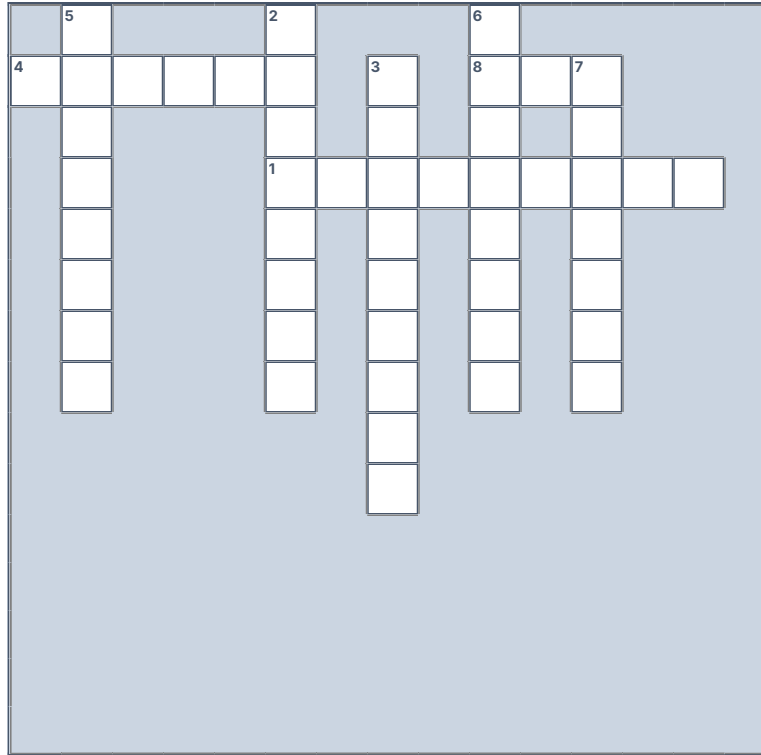
C Throughput capacity of a server node under active traffic load.

Security

E Verified records confirming that zero user activity is tracked.

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

4 Across: Unencrypted P2P masking proxy system. (6) (6 letters):

5 Across: Active network throughput capacity. (5) (5 letters):

7 Across: Failsafe traffic block switch. (10) (10 letters):

DOWN CLUES

2 Down: Audited zero-logs evidence history. (4) (4 letters):

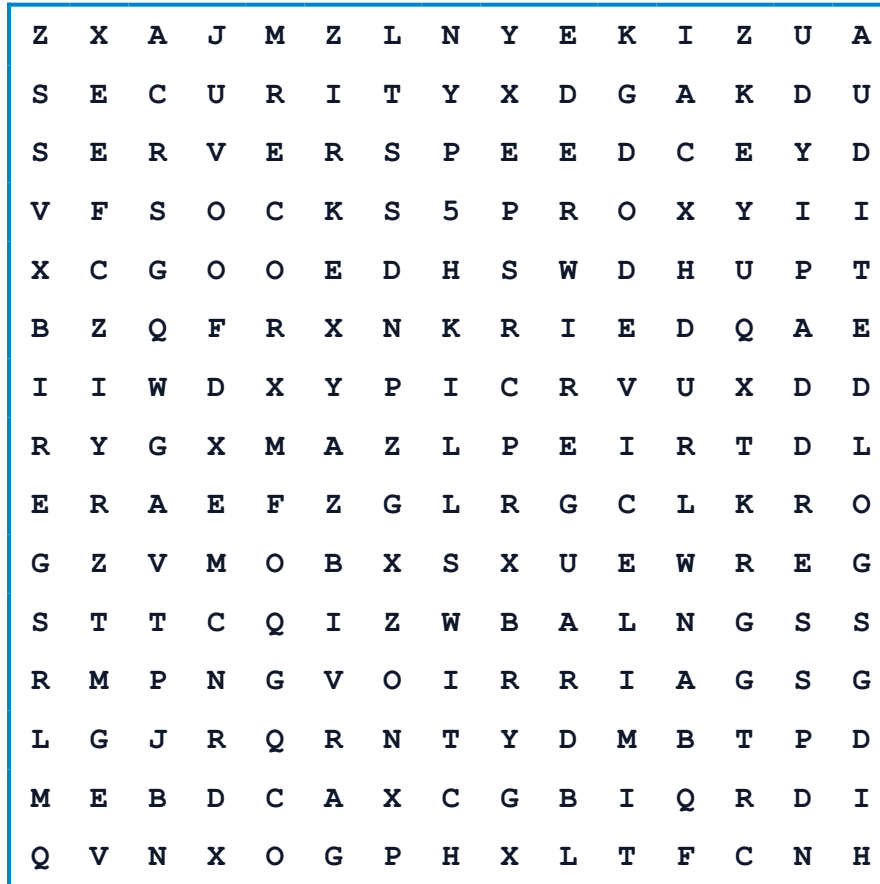
3 Down: Restrictive device session limit. (7) (7 letters):

6 Down: Unique network identifier address. (9) (9 letters):

8 Down: Overall tunnel protection posture. (8) (8 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

WireGuard
Audited Logs

SOCKS5 Proxy
Device Limit

Server Speed
IP Address

Kill Switch
Security

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. WireGuard
- B. SOCKS5 Proxy
- C. Server Speed
- D. Kill Switch
- E. Audited Logs
- F. Device Limit
- G. IP Address
- H. Security

DEFINITIONS & MATCH FIELDS

- 1. Modern high-speed open-source tunneling protocol.
- 2. Unencrypted proxy routing masking P2P connection IPs.
- 3. Actual throughput speed of active server nodes.
- 4. Failsafe switch cutting traffic if the connection drops.
- 5. Audited history confirming zero session logs are stored.
- 6. Maximum concurrent device link limit constraint.
- 7. Unique identifier address assigned to client devices.
- 8. Overall security posture of the encrypted system.

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. IREGUARDW

5. OGSL

2. OCKS5S

6. EVICESD

3. PEEDS

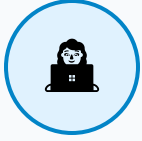
7. PADDRESSI

4. ILLSWITCHK

8. ECURITYS

Checkpoint 8: VPN & Network Case Studies

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



CASE STUDY 1: MEDIA CENTER CONFIGURATION

Scenario: A client wants to secure their Android Fire TV media player using IPVanish to stream safely while maintaining fast throughput.

Discussion Question: Why is the WireGuard protocol preferred over OpenVPN for resource-constrained streaming hardware?



CASE STUDY 2: TORRENT NETWORK PROXIES

Scenario: A P2P uploader wants to hide their location without the overhead of full data encryption using a SOCKS5 configuration.

Discussion Question: Compare the security and speed trade-offs of using a SOCKS5 proxy versus a full IPVanish VPN tunnel.

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	16	22	1	14	9	19	8	5	14	6	15	18	3	5	19	1
19	20	18	9	3	20	14	15	12	15	7	19					
1	18	3	8	9	20	5	3	20	21	18	5					

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: What protocol is default in IPVanish?

It default-routes through high-speed WireGuard.

Q2: Does IPVanish own its server hardware?

Yes, it owns and manages a large portion of its physical server network.

Q3: Where is IPVanish based?

It is based in the United States, subject to US laws.

Q4: How many devices can connect concurrently?

IPVanish offers unlimited concurrent device connections per account.

Q5: Does it keep any connection logs?

No, it enforces a strict zero-logs policy validated by independent audits.

Checkpoint 10: Basic VPN FAQs (Part B)

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

Q6: Does IPVanish offer a proxy service?

Yes, it provides a free SOCKS5 proxy for torrenting.

Q7: Does it include a kill switch?

Yes, a kill switch is available on Windows, macOS, Android, and iOS.

Q8: Can I bypass geo-blocks with IPVanish?

Yes, its global network of servers allows access to restricted libraries.

Q9: Does it support split tunneling?

Yes, split tunneling is supported on Android and FireOS apps.

Q10: What encryption ciphers does it use?

It secures connections using AES-256 and ChaCha20 encryption.

Checkpoint 11: Advanced VPN FAQs (Part A)

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

Q1: How is the SOCKS5 proxy configured?

It is set up in torrent clients to hide the user's IP without encryption overhead.

Q2: How does owning server hardware improve security?

It reduces third-party server renting risks and ensures strict control over server configurations.

Q3: What are the privacy implications of US jurisdiction?

While US laws do not require data retention, they allow national security letters and warrants.

Q4: How does the kill switch prevent IP leaks?

It blocks all internet adapters if the VPN connection drops unexpectedly.

Q5: Which encryption is used with WireGuard?

WireGuard utilizes ChaCha20 symmetric key encryption and Poly1305 authentication.

Checkpoint 11: Advanced VPN FAQs (Part B)

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

Q6: How is the zero-logs policy verified?

It was audited by a reputable third-party security firm, confirming no user logs are kept.

Q7: How does it handle IPv6 DNS queries?

It automatically routes all DNS and IPv6 queries through its private nameservers.

Q8: Does IPVanish offer obfuscation features?

Yes, its Scramble feature obfuscates OpenVPN traffic to bypass firewalls.

Q9: How does split tunneling work on mobile devices?

It allows selected apps to bypass the VPN tunnel and connect directly.

Q10: Does it support router configurations?

Yes, OpenVPN and WireGuard configurations can be manually loaded onto DD-WRT routers.

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

IPVanish owns and manages over 2,200 physical servers in more than 75 locations worldwide.

2. VPN INSIGHT

It was founded in 2012 by Mudhook Media and is currently owned by J2 Global (Ziff Davis).

3. VPN INSIGHT

The SOCKS5 proxy hides the client's public IP address but does not encrypt the data packets.

4. VPN INSIGHT

IPVanish is one of the few VPN providers that operates a true Tier-1 network, controlling its own fiber lines.

5. VPN INSIGHT

Standard OpenVPN Scramble adds an XOR obfuscation layer to the packet headers to bypass firewalls.

6. VPN INSIGHT

The unlimited concurrent connection policy allows users to secure all their household devices simultaneously.

7. VPN INSIGHT

Independent audits performed by Leviathan Security Group verified the company's zero-logs claims.

8. VPN INSIGHT

The Android app supports always-on VPN settings that prevent internet access if the tunnel is disconnected.

9. VPN INSIGHT

OpenVPN connections can use either UDP for speed or TCP for stable routing through firewalls.

10. VPN INSIGHT

It provides dedicated customer support channels, including 24/7 live chat and phone support.

Technical References & Sources

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

SCHOLARLY & INDUSTRY REFERENCES

- [1] IPVanish. (2026). Secure & Automated VPN Service. Retrieved from <https://www.ipvanish.com/>
- [2] IPVanish Support. (2026). Customer Support Portal & Guides. Retrieved from <https://support.ipvanish.com/>
- [3] IPVanish. (2026). VPN Features: OpenVPN & WireGuard. Retrieved from <https://www.ipvanish.com/>
- [4] IPVanish Support. (2026). Setting Up IPVanish on Fire TV and Router. Retrieved from <https://support.ipvanish.com/>
- [5] IPVanish. (2026). Server Speed Metrics and Locations. Retrieved from <https://www.ipvanish.com/>
- [6] IPVanish Support. (2026). Understanding Zero-Logs Commitment. Retrieved from <https://support.ipvanish.com/>
- [7] IPVanish. (2026). Desktop and Mobile Client Setup. Retrieved from <https://www.ipvanish.com/>
- [8] IPVanish Support. (2026). Troubleshooting DNS Leak Warnings. Retrieved from <https://support.ipvanish.com/>
- [9] IPVanish Support. (2026). Frequently Asked Technical Questions. Retrieved from <https://support.ipvanish.com/>
- [10] VPN.com. (2026). IPVanish VPN Comprehensive Expert Review. Retrieved from <https://www.vpn.com/vpn/ipvanish/>

Answer Key: Checkpoint 1 - Multiple Choice

1 WireGuard Default

WIREGUARD

Correct Answer: A

TEACHING NOTE

WireGuard is configured by default for optimized routing speeds.

Citation: IPVanish Features [Ref 3].

2 SOCKS5 Proxy

SOCKS5 PROXY

Correct Answer: A

TEACHING NOTE

SOCKS5 proxies mask client locations without encryption overhead.

Citation: IPVanish Support [Ref 4].

3 Leviathan Audit

LEVIATHAN GROUP

Correct Answer: A

TEACHING NOTE

Leviathan Security Group audited IPVanish to certify no-logs rules.

Citation: IPVanish Support [Ref 6].

4 US Jurisdiction

UNITED STATES

Correct Answer: A

TEACHING NOTE

IPVanish is based in the United States, under Five Eyes alliance rules.

Citation: IPVanish Review [Ref 10].

5 Unlimited Devices

UNLIMITED

Correct Answer: A

TEACHING NOTE

IPVanish allows unlimited simultaneous device connections.

Citation: IPVanish Support [Ref 9].

Answer Key: Checkpoint 2 - True or False

6 Server Hardware

OWNS NETWORK

Correct Answer: True

TEACHING NOTE

IPVanish owns and manages a large portion of its physical server network.
Citation: IPVanish Support [Ref 5].

7 SOCKS5 Security

PROXY ONLY

Correct Answer: False

TEACHING NOTE

SOCKS5 proxies do not encrypt payload data, only masking client IPs.
Citation: IPVanish Support [Ref 4].

8 Kill Switch

KILL SWITCH

Correct Answer: False

TEACHING NOTE

The IPVanish client contains a system-level Kill Switch failsafe.
Citation: IPVanish Support [Ref 8].

9 US Jurisdiction

FIVE EYES US

Correct Answer: True

TEACHING NOTE

IPVanish is based in the US, subject to Five Eyes surveillance rules.
Citation: IPVanish Review [Ref 10].

10 Split Tunnel

SPLIT ROUTE

Correct Answer: True

TEACHING NOTE

Split tunneling routes specific app traffic outside the secure tunnel.
Citation: IPVanish Support [Ref 9].

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 WireGuard

B SOCKS5 Proxy

C Server Speed

D Kill Switch

E Audited Logs

F Device Limit

G IP Address

H Security

CHECKPOINT 3: KEY TERM KEY

1 WireGuard

2 SOCKS5 Proxy

3 Server Speed

4 Kill Switch

5 Audited Logs

6 Device Limit

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

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

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.
(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.

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. IREGUARDW

WIREGUARD

5. OGSIL

LOGS

2. OCKS5S

SOCKS5

6. EVICESD

DEVICES

3. PEEDS

SPEED

7. PADDRESSI

IPADDRESS

4. ILLSWITCHK

KILLSWITCH

8. ECURITYS

SECURITY

SECRET CIPHER CHALLENGE KEY

"IPVANISH ENFORCES A STRICT NO LOGS ARCHITECTURE"

VPN & Network Case Studies Solution Key

A Case Study 1: Media Center Configuratic

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A client wants to secure their Android Fire TV media player using IPVanish to stream safely while maintaining fast throughput.
- **Recommended Strategy & Solution:** Grading Guidance: Explain that WireGuard has a smaller code footprint, operates within the kernel space, and utilizes fewer CPU cycles, maximizing speed on light hardware.

B Case Study 2: Torrent Network Proxi

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A P2P uploader wants to hide their location without the overhead of full data encryption using a SOCKS5 configuration.
- **Recommended Strategy & Solution:** Grading Guidance: Note that SOCKS5 hides the IP address without encrypting traffic, yielding faster speeds but zero privacy against ISP packet inspection.