

Name: _____

Date: _____

Score: _____

TunnelBear Review

Technical analysis of Canadian-headquartered TunnelBear, GhostBear obfuscation, VigilantBear kill switch, annual independent security audits, and zero-logs.

TUNNELBEAR 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 TunnelBear. You will explore GhostBear obfuscation, VigilantBear kill switch settings, and annual security audit validations.

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/tunnelbear/>

Your TunnelBear Learning Roadmap

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

TUNNELBEAR 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 GhostBear obfuscation and VigilantBear switches.

GHOSTBEAR OBFUSCATION & ANNUAL INDEPENDENT AUDIT VERIFICATION (INTRODUCTION)

TunnelBear is celebrated for its annual independent security audits conducted by Cure53. Headquartered in Canada, it offers GhostBear protocol obfuscation to bypass DPI censors, VigilantBear connection leak protection, and unlimited device links.

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

Checkpoint 1: Multiple Choice Challenge

1 In which country is TunnelBear corporate entity registered?

- ☐ A) Canada
- ☐ B) United States
- ☐ C) Switzerland
- ☐ D) Germany

2 What is the name of TunnelBear's censorship-bypassing obfuscation?

- ☐ A) GhostBear
- ☐ B) Chameleon
- ☐ C) Stealth
- ☐ D) ShadowSocks

3 What is the name of TunnelBear's built-in kill switch feature?

- ☐ A) VigilantBear
- ☐ B) Secure Core
- ☐ C) NetShield
- ☐ D) SafePath

4 Which cybersecurity firm acquired TunnelBear in 2018?

- ☐ A) McAfee
- ☐ B) Avast
- ☐ C) NortonLifeLock
- ☐ D) Kape Technologies

5 Which protocol does TunnelBear recommend for modern high-speed tunnels?

- ☐ A) WireGuard
- ☐ B) OpenVPN
- ☐ C) IKEv2
- ☐ D) PPTP

Checkpoint 2: True or False Challenge

6 Question 6

GhostBear scrambles VPN metadata to help bypass deep packet inspection firewalls.

☐ True ☐ False

7 Question 7

TunnelBear offers unlimited simultaneous connections under a free subscription.

☐ True ☐ False

8 Question 8

VigilantBear keeps data safe while the app is connecting or reconnecting.

☐ True ☐ False

9 Question 9

TunnelBear was the first consumer VPN to publish annual public security audits.

☐ True ☐ False

10 Question 10

The provider operates under the strict jurisdiction of Panama laws.

☐ 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. TunnelBear is headquartered and operated out of _____ with strict laws.
2. Obfuscation technology is powered by the _____ system settings.
3. System-level leak protection is managed by _____ settings.
4. The VPN provider was acquired by security developer _____ in 2018.
5. Fast data transmission speeds are achieved via the _____ protocol.
6. Traditional desktop client connections rely on the _____ protocol.

VOCABULARY WORD BANK

canada
wireguard

ghostbear
openvpn

vigilantbear
audit

mcafee
zerologs

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.

canada

E High-performance protocol using modern cryptography.

ghostbear

D Security parent corporation that acquired TunnelBear.

vigilantbear

A Country of registration and corporate headquarters.

mcafee

G Third-party security assessment conducted annually.

wireguard

F Standard open-source tunneling protocol used on desktops.

openvpn

H Privacy policy enforcing no retention of traffic history.

audit

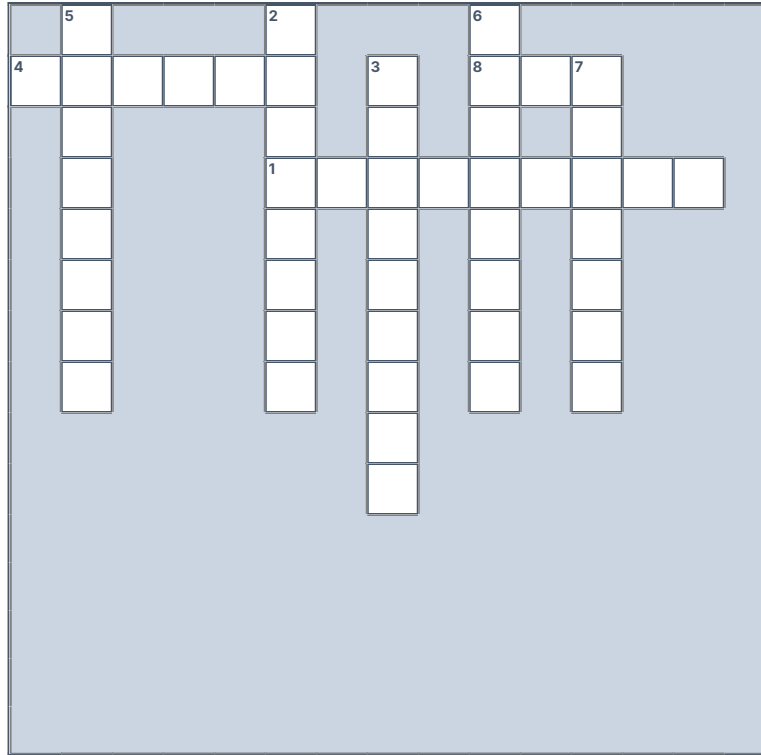
B Metadata scrambling technology used to bypass deep packet inspection.

zerologs

C Built-in kill switch protecting connections during 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: Country of corporate registration (6 letters):

4 Across: Proprietary obfuscation protocol name (9 letters):

5 Across: Client side kill switch feature name (12 letters):

7 Across: Parent cybersecurity firm (6 letters):

DOWN CLUES

2 Down: High speed cryptographic protocol (9 letters):

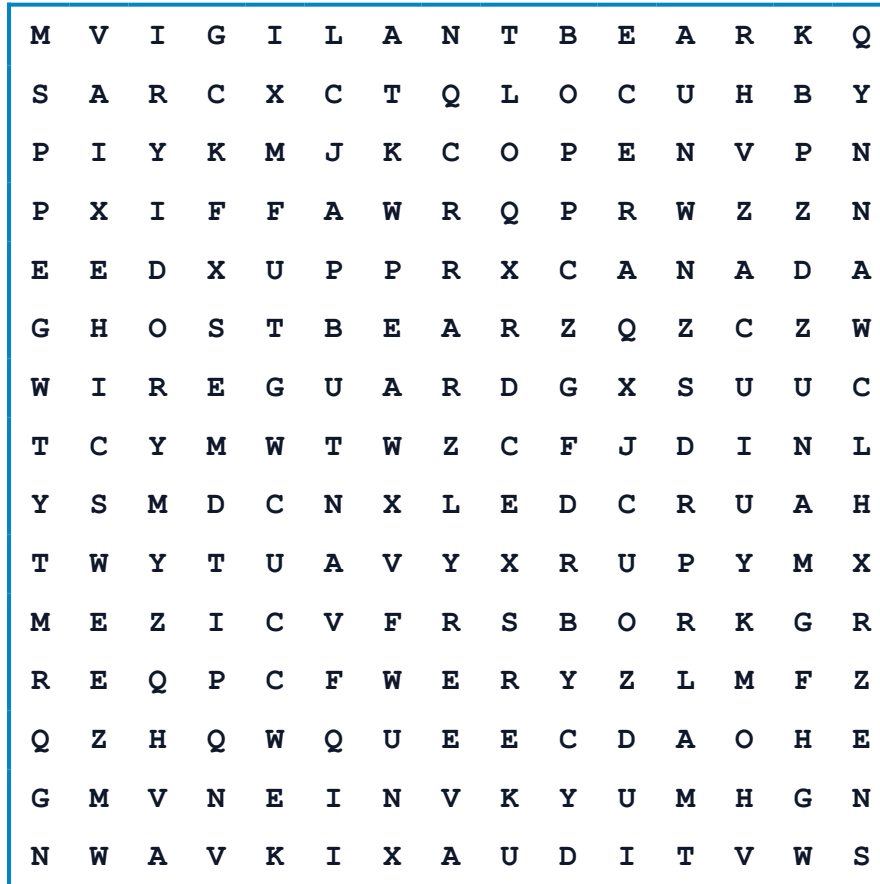
3 Down: Legacy open source desktop protocol (7 letters):

6 Down: Annual security review process (5 letters):

8 Down: Zero tracking history privacy policy (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

canada
wireguard

ghostbear
openvpn

vigilantbear
audit

mcafee
zerologs

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. canada
- B. ghostbear
- C. vigilantbear
- D. mcafee
- E. wireguard
- F. openvpn
- G. audit
- H. zerologs

DEFINITIONS & MATCH FIELDS

- 1. Country of registration and corporate headquarters.
- 2. Metadata scrambling technology used to bypass deep packet inspection.
- 3. Built-in kill switch protecting connections during drops.
- 4. Security parent corporation that acquired TunnelBear.
- 5. High-performance protocol using modern cryptography.
- 6. Standard open-source tunneling protocol used on desktops.
- 7. Third-party security assessment conducted annually.
- 8. Privacy policy enforcing no retention of traffic 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. **anadac**

5. **ireguardw**

2. **hostbearg**

6. **penvpno**

3. **igilantbearv**

7. **udita**

4. **cafeem**

8. **erologsz**

Checkpoint 8: VPN & Network Case Studies

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



CASE STUDY 1: CENSORSHIP CIRCUMVENTION

Scenario: A researcher traveling through a nation that blocks VPN protocols needs to access research materials.

Discussion Question: Which TunnelBear setting should be enabled to bypass deep packet inspection?



CASE STUDY 2: UNSECURED PUBLIC HOTSPOTS

Scenario: An engineer connects to an open airport Wi-Fi hotspot and experiences frequent connection drops.

Discussion Question: How does VigilantBear protect the engineer's device during connection drops?

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

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 TunnelBear safe?

Yes, it uses AES-256 encryption and has its apps independently audited every year.

Q2: What is GhostBear?

GhostBear is an obfuscation feature that hides VPN traffic to bypass censorship blocks.

Q3: Does it have a free tier?

Yes, TunnelBear offers a limited free tier with 2GB of monthly bandwidth data.

Q4: Where is TunnelBear based?

TunnelBear is headquartered in Toronto, Canada, under Canadian jurisdiction.

Q5: What is VigilantBear?

VigilantBear is TunnelBear's built-in kill switch that blocks leaks during drops.

Checkpoint 10: Basic VPN FAQs (Part B)

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

Q6: Can I connect multiple devices?

Yes, paid plans support unlimited simultaneous connections under one account.

Q7: Does TunnelBear support WireGuard?

Yes, WireGuard is supported for high-performance and battery-efficient connections.

Q8: What is their zero-logs policy?

TunnelBear does not log IP addresses, DNS queries, or user browsing activity.

Q9: Who owns TunnelBear?

TunnelBear was acquired by the major cybersecurity firm McAfee in 2018.

Q10: Does it block ads?

TunnelBear focuses on encryption; ad blocking is not built into the primary VPN client.

Checkpoint 11: Advanced VPN FAQs (Part A)

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

Q1: How does GhostBear bypass DPI?

It injects random padding and scrambles packet headers to mask signature profiles.

Q2: Is Canada a 5-Eyes country?

Yes, Canada is a member of the Five-Eyes alliance, raising jurisdiction considerations.

Q3: How does VigilantBear block data leaks?

It alters routing tables and local firewall rules to prevent raw socket bindings during reconnections.

Q4: What is checked in their audits?

Cure53 audits app code, server configurations, infrastructure, and logging controls.

Q5: Does WireGuard run natively?

Yes, the client establishes user-space WireGuard tunnels for maximum throughput.

Checkpoint 11: Advanced VPN FAQs (Part B)

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

Q6: Are there specialized P2P servers?

No, P2P traffic is supported across all global server nodes without restrictions.

Q7: Does it prevent WebRTC leaks?

Yes, the client intercepts and routes WebRTC requests to prevent local IP exposure.

Q8: How is DNS security managed?

DNS queries are routed through TunnelBear's private, encrypted DNS resolvers.

Q9: Can I use it on Linux?

TunnelBear offers a command-line client and open-source config files for Linux setups.

Q10: How are billing databases isolated?

Billing records are stored separately from server traffic logs to preserve anonymity.

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

TunnelBear is headquartered in Toronto, Canada, and operates under Canadian jurisdiction.

2. VPN INSIGHT

The service was acquired by McAfee in 2018 to bolster their security portfolio.

3. VPN INSIGHT

GhostBear obfuscates VPN protocol signatures to look like standard HTTP/S packets.

4. VPN INSIGHT

VigilantBear acts as the client's firewall-level connection kill switch.

5. VPN INSIGHT

Annual public audits are conducted by Cure53 to verify app and server security.

6. VPN INSIGHT

Paid subscriptions support unlimited simultaneous device connections.

7. VPN INSIGHT

The network relies on AES-256 encryption, the global security standard.

8. VPN INSIGHT

It supports OpenVPN, IKEv2, and WireGuard protocol tunnels.

9. VPN INSIGHT

No logs are kept regarding user destination IP addresses or browsing history.

10. VPN INSIGHT

They offer a playful bear-themed user interface to simplify VPN management.

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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Answer Key: Checkpoint 1 - Multiple Choice

1 Network Check 1

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

In which country is TunnelBear corporate entity registered?

Citation: IETF VPN RFC [Ref 3].

2 Network Check 2

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

What is the name of TunnelBear's censorship-bypassing obfuscation?

Citation: IETF VPN RFC [Ref 3].

3 Network Check 3

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

What is the name of TunnelBear's built-in kill switch feature?

Citation: IETF VPN RFC [Ref 3].

4 Network Check 4

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which cybersecurity firm acquired TunnelBear in 2018?

Citation: IETF VPN RFC [Ref 3].

5 Network Check 5

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which protocol does TunnelBear recommend for modern high-speed tunnels?

Citation: IETF VPN RFC [Ref 3].

Answer Key: Checkpoint 2 - True or False

6 Network Rule 1

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

GhostBear scrambles VPN metadata to help bypass deep packet inspection firewalls.

Citation: IETF VPN RFC [Ref 3].

7 Network Rule 2

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

TunnelBear offers unlimited simultaneous connections under a free subscription.

Citation: IETF VPN RFC [Ref 3].

8 Network Rule 3

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

VigilantBear keeps data safe while the app is connecting or reconnecting.

Citation: IETF VPN RFC [Ref 3].

9 Network Rule 4

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

TunnelBear was the first consumer VPN to publish annual public security audits.

Citation: IETF VPN RFC [Ref 3].

10 Network Rule 5

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

The provider operates under the strict jurisdiction of Panama laws.

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 canada

B ghostbear

C vigilantbear

D mcafee

E wireguard

F openvpn

G audit

H zerologs

CHECKPOINT 3: KEY TERM KEY

1 canada

2 ghostbear

3 vigilantbear

4 mcafee

5 wireguard

6 openvpn

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

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

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. anadac

canada

5. ireguardw

wireguard

2. hostbearg

ghostbear

6. penvpno

openvpn

3. igilantbearv

vigilantbear

7. udit a

audit

4. cafeem

mcafee

8. erologsz

zerologs

SECRET CIPHER CHALLENGE KEY

**"TUNNELBEAR APP FEATURES VIGILANTBEAR LEAK
PROTECTION SYSTEMS"**

VPN & Network Case Studies Solution Key

A Case Study 1: Censorship Circumventic

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A researcher traveling through a nation that blocks VPN protocols needs to access research materials.
- **Recommended Strategy & Solution:** GhostBear must be enabled to scramble VPN packet metadata, making it look like normal HTTPS traffic.

B Case Study 2: Unsecured Public Hotspo

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** An engineer connects to an open airport Wi-Fi hotspot and experiences frequent connection drops.
- **Recommended Strategy & Solution:** VigilantBear freezes all network interfaces, blocking unencrypted traffic leaks until the VPN tunnel is restored.