

Name: _____

Date: _____

Score: _____

NordVPN Review

Technical analysis of Panama-headquartered NordVPN, proprietary NordLynx speed benchmarks, diskless RAM-only server nodes, and DNS-based Threat Protection.

NORDVPN 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 NordVPN. You will explore Panama jurisdiction, proprietary NordLynx speeds, diskless RAM-only server nodes, and Threat Protection.

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/nordvpn/>

Your NordVPN Learning Roadmap

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

NORDVPN 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 NordLynx and Threat Protection.

NORDLYNX PERFORMANCE & PANAMA JURISDICTION (INTRODUCTION)

NordVPN is legally based in Panama, outside Eyes alliances. It utilizes its proprietary NordLynx protocol for top-tier speeds, diskless RAM-only server nodes, and a DNS-based Threat Protection suite to shield data packets.

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

Checkpoint 1: Multiple Choice Challenge

1 What is the name of NordVPN's proprietary protocol built on WireGuard?

- ☐ A) NordLynx
- ☐ B) Lightway
- ☐ C) OpenWeb
- ☐ D) Catapult Hydra

2 In which country is NordVPN legally headquartered to protect user privacy?

- ☐ A) Panama
- ☐ B) Switzerland
- ☐ C) Sweden
- ☐ D) Cyprus

3 Which proprietary DNS-based ad-blocking and threat-filtering tool does NordVPN include?

- ☐ A) Threat Protection
- ☐ B) SafeConnect
- ☐ C) AntiTracker
- ☐ D) CleanWeb

4 How many concurrent device connections are allowed under one NordVPN account?

- ☐ A) Ten Devices
- ☐ B) Five Devices
- ☐ C) Unlimited
- ☐ D) Two Devices

5 Which server type chains two VPN nodes to obfuscate the origin IP?

- ☐ A) Double VPN
- ☐ B) Onion over VPN
- ☐ C) Obfuscated Server
- ☐ D) Dedicated IP

Checkpoint 2: True or False Challenge

6 Question 6

NordLynx combines the fast WireGuard protocol with a double NAT translation system.

☐ True ☐ False

7 Question 7

NordVPN is headquartered in Panama, which is outside global Eyes intelligence alliances.

☐ True ☐ False

8 Question 8

NordVPN servers run on local hard drives that store connection log databases.

☐ True ☐ False

9 Question 9

Threat Protection features run exclusively inside the cloud and do not inspect files locally.

☐ True ☐ False

10 Question 10

PwC has audited NordVPN's zero-logs policy multiple times to verify compliance.

☐ 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 proprietary protocol built on WireGuard is called _____ routing.
2. To operate outside US laws, NordVPN is based in _____ jurisdiction.
3. For advanced routing security, users can chain servers via _____ mode.
4. Malware domains are blocked by the built-in _____ engine.
5. All server nodes have been converted to run on _____ infrastructure.
6. Independent audits have validated NordVPN's strict _____ privacy commitment.

VOCABULARY WORD BANK

NordLynx
Diskless RAM

Panama
Zero Logs

Double VPN
Kill Switch

Threat Protection
Tunneling

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

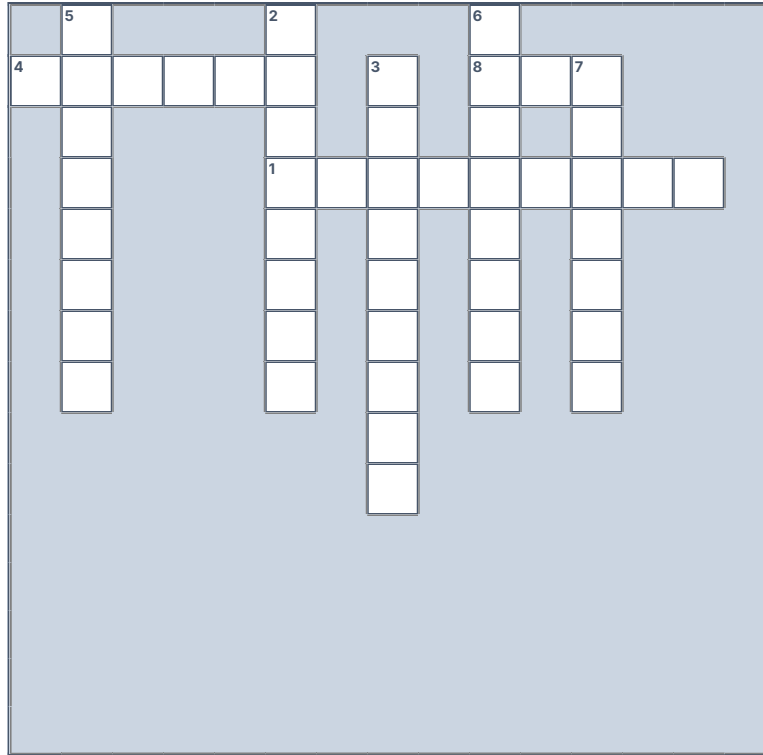
DEFINITION MATCHING

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.

NordLynx	D Built-in ad-blocking and malware domain filtering tool.
Panama	G Failsafe blocker cutting traffic if the tunnel drops.
Double VPN	H Encapsulating packet payloads to cross networks.
Threat Protection	C Double server chaining routing traffic in series.
Diskless RAM	A Proprietary WireGuard implementation with double NAT.
Zero Logs	B Central American legal jurisdiction and head office.
Kill Switch	F Vetted privacy policy storing no activity history.
Tunneling	E Volatile memory server hardware storing zero disk logs.

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: Proprietary WireGuard protocol variant. (8) (8 letters):

4 Across: Central American privacy jurisdiction. (6) (6 letters):

5 Across: Chaining two server nodes in series. (9) (9 letters):

7 Across: Built-in ad and threat blocker. (16) (10 letters):

DOWN CLUES

2 Down: Volatile memory server hardware. (11) (11 letters):

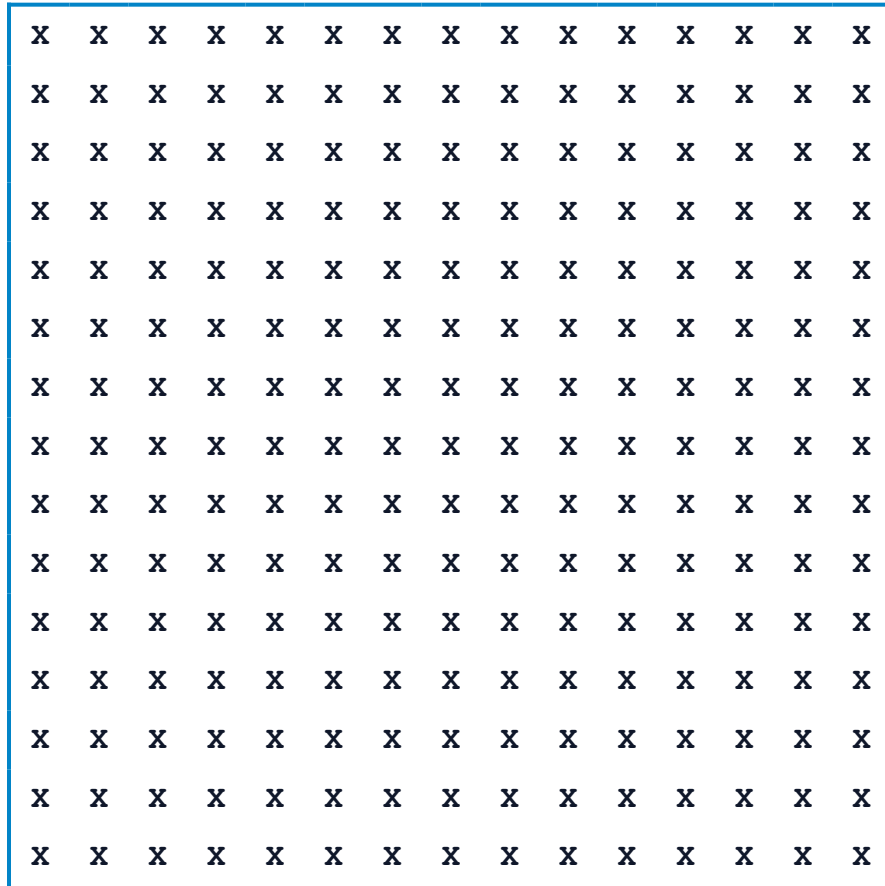
3 Down: Audited policy storing no logs. (8) (8 letters):

6 Down: Failsafe connection block switch. (10) (10 letters):

8 Down: Encapsulating data over networks. (8) (6 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

NordLynx
Diskless RAM

Panama
Zero Logs

Double VPN
Kill Switch

Threat Protection
Tunneling

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. NordLynx
- B. Panama
- C. Double VPN
- D. Threat Protection
- E. Diskless RAM
- F. Zero Logs
- G. Kill Switch
- H. Tunneling

DEFINITIONS & MATCH FIELDS

- 1. Proprietary WireGuard implementation with double NAT.
- 2. Central American legal jurisdiction and head office.
- 3. Double server chaining routing traffic in series.
- 4. Built-in ad-blocking and malware domain filtering tool.
- 5. Volatile memory server hardware storing zero disk logs.
- 6. Vetted privacy policy storing no activity history.
- 7. Failsafe blocker cutting traffic if the tunnel drops.
- 8. Encapsulating packet payloads to cross networks.

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. ORDLYNXN

5. ISKLESSRAMD

2. ANAMAP

6. EROLOGSZ

3. OUBLEVPND

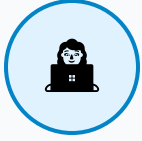
7. ILLSWITCHK

4. ROTECTIONP

8. UNNELT

Checkpoint 8: VPN & Network Case Studies

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



CASE STUDY 1: IMPLEMENTING NORDLYNX ARCHITECTURE

Scenario: An enterprise wants to achieve high throughput on mobile clients but requires dynamic local IP allocation without storing connection history on servers.

Discussion Question: Explain how NordLynx's double NAT system solves the privacy issues of standard WireGuard IP allocation.



CASE STUDY 2: PROTECTING AGAINST LOCAL DATA SEIZURE

Scenario: A government agency demands physical server drives from a NordVPN server node in a co-located facility to investigate user traffic.

Discussion Question: Analyze how diskless RAM-only server nodes defend against physical data retrieval upon power loss.

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: What is NordLynx?

It is NordVPN's proprietary protocol built on WireGuard, optimized for speed and privacy using a double NAT system.

Q2: Where is NordVPN headquartered?

NordVPN is headquartered in Panama, which offers strong privacy laws and sits outside Eyes alliances.

Q3: Does NordVPN keep connection logs?

No, it enforces a strict zero-logs policy that has been independently verified by PwC and Deloitte audits.

Q4: How many devices can I connect?

You can connect up to 10 devices concurrently under a single NordVPN subscription.

Q5: Does it include ad blocking?

Yes, its Threat Protection feature blocks ads, tracking scripts, and malware domains.

Checkpoint 10: Basic VPN FAQs (Part B)

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

Q6: What is Double VPN?

It is a feature that routes your traffic through two separate VPN servers in sequence, encrypting it twice.

Q7: Are NordVPN servers diskless?

Yes, all NordVPN servers run entirely on volatile RAM (diskless) to protect data from physical seizures.

Q8: Can I use NordVPN on a router?

Yes, NordVPN provides manual configuration files to set up tunnels on compatible routers.

Q9: What is Onion Over VPN?

It is a feature that routes your traffic through NordVPN's server and then immediately into the Tor onion network.

Q10: Does the app have a kill switch?

Yes, it has a system-wide and app-specific kill switch to block internet access if the VPN drops.

Checkpoint 11: Advanced VPN FAQs (Part A)

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

Q1: How does the double NAT system in NordLynx protect user privacy?

WireGuard normally requires storing static local IPs on the server. NordLynx dynamically assigns temporary local IPs, storing no identifiable data.

Q2: How does Panama's legal jurisdiction benefit privacy?

Panama has no mandatory data retention laws and does not recognize subpoenas from foreign intelligence agencies.

Q3: How does Threat Protection scan files locally?

It intercepts file downloads, uploads them to a local sandbox, checks their hashes against threat databases, and blocks them if malicious.

Q4: What ciphers are used for encryption in NordLynx?

NordLynx utilizes ChaCha20 for symmetric encryption, Poly1305 for authentication, and Curve25519 for key exchange.

Q5: Does NordVPN support obfuscated servers?

Yes, it offers dedicated obfuscated servers that use OpenVPN with custom packets to bypass deep packet inspection (DPI).

Checkpoint 11: Advanced VPN FAQs (Part B)

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

Q6: How has NordVPN verified its zero-logs policy?

PwC Switzerland and Deloitte have conducted comprehensive audits of its database logs and server configurations, validating their claims.

Q7: Does NordVPN support Meshnet?

Yes, Meshnet allows users to create a secure local network connecting remote devices directly without routing through a VPN server.

Q8: How does the app prevent WebRTC and DNS leaks?

It binds network adapters to its private DNS servers and blocks public WebRTC STUN queries inside the browser.

Q9: Are NordVPN's servers co-located?

Yes, NordVPN is increasing its co-located server deployments, owning its physical hardware while renting datacenter space.

Q10: Does the app support split tunneling on macOS?

Split tunneling is supported on Windows and Android, but macOS features are limited due to Apple's network extension frameworks.

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

NordVPN was founded in 2012 by Tefincom S.A. and has grown into one of the largest VPN providers globally.

2. VPN INSIGHT

The NordLynx protocol performs significantly faster than standard OpenVPN, maintaining up to 90% of base ISP speed.

3. VPN INSIGHT

Following a 2018 datacenter breach, NordVPN transitioned its entire network to diskless RAM-only servers.

4. VPN INSIGHT

NordVPN owns and manages over 6,000 servers located in more than 110 countries worldwide.

5. VPN INSIGHT

Meshnet uses the NordLynx protocol to establish secure, direct peer-to-peer tunnels between user devices.

6. VPN INSIGHT

Panama's jurisdiction does not require NordVPN to comply with foreign DMCA take-down notices directly.

7. VPN INSIGHT

Co-located servers are fully owned and physically built by NordVPN, reducing third-party server renting risks.

8. VPN INSIGHT

The NordVPN application uses Qt for its desktop clients and native Swift/Kotlin for mobile apps.

9. VPN INSIGHT

Its zero-logs audits are recurring, with Deloitte providing annual independent assessments of the network infrastructure.

10. VPN INSIGHT

Threat Protection operates even when the VPN tunnel itself is disconnected, acting as a background host shield.

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

What is the name of NordVPN's proprietary protocol built on WireGuard?

Citation: IETF VPN RFC [Ref 3].

2 Network Check 2

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

In which country is NordVPN legally headquartered to protect user privacy?

Citation: IETF VPN RFC [Ref 3].

3 Network Check 3

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which proprietary DNS-based ad-blocking and threat-filtering tool does NordVPN include?

Citation: IETF VPN RFC [Ref 3].

4 Network Check 4

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

How many concurrent device connections are allowed under one NordVPN account?

Citation: IETF VPN RFC [Ref 3].

5 Network Check 5

VPN PROTECTION

Correct Answer: A

TEACHING NOTE

Which server type chains two VPN nodes to obfuscate the origin IP?

Citation: IETF VPN RFC [Ref 3].

Answer Key: Checkpoint 2 - True or False

6 Network Rule 1

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

NordLynx combines the fast WireGuard protocol with a double NAT translation system.

Citation: IETF VPN RFC [Ref 3].

7 Network Rule 2

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

NordVPN is headquartered in Panama, which is outside global Eyes intelligence alliances.

Citation: IETF VPN RFC [Ref 3].

8 Network Rule 3

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

NordVPN servers run on local hard drives that store connection log databases.

Citation: IETF VPN RFC [Ref 3].

9 Network Rule 4

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

Threat Protection features run exclusively inside the cloud and do not inspect files locally.

Citation: IETF VPN RFC [Ref 3].

10 Network Rule 5

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

PwC has audited NordVPN's zero-logs policy multiple times to verify compliance.

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 NordLynx

B Panama

C Double VPN

D Threat Protection

E Diskless RAM

F Zero Logs

G Kill Switch

H Tunneling

CHECKPOINT 3: KEY TERM KEY

1 NordLynx

2 Panama

3 Double VPN

4 Threat Protection

5 Diskless RAM

6 Zero Logs

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

[illegible]

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. ORDLYNXN

NORDLYNX

5. ISKLESSRAMD

DISKLESSRAM

2. ANAMAP

PANAMA

6. EROLOGSZ

ZEROLOGS

3. OUBLEVPND

DOUBLEVPN

7. ILLSWITCHK

KILLSWITCH

4. ROTECTIONP

PROTECTION

8. UNNELT

TUNNEL

SECRET CIPHER CHALLENGE KEY

"NORDVPN LYNX PROTOCOL SECURES CLIENT DATA CONNECTIONS"

VPN & Network Case Studies Solution Key

A Case Study 1: Implementing NordLynx Architectu

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** An enterprise wants to achieve high throughput on mobile clients but requires dynamic local IP allocation without storing connection history on servers.
- **Recommended Strategy & Solution:** Grading Guidance: Explain that NordLynx creates two local network interfaces, assigning a unique IP to each session and preventing database storage of the client's static IP.

B Case Study 2: Protecting Against Local Data Seizure

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A government agency demands physical server drives from a NordVPN server node in a co-located facility to investigate user traffic.
- **Recommended Strategy & Solution:** Grading Guidance: Analyze that because the operating system and key configurations run entirely in volatile RAM, turning off the server wipes all data instantly.