

Name: _____

Date: _____

Score: _____

NordVPN Speed Test

Benchmarking NordVPN connection speeds including NordLynx throughput, server load optimization, split-tunneling performance, and latency measurement across global server locations.

NORDVPN SPEED TEST 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 NordVPN speed tests. You will explore download/upload throughput metrics, latency pings, 10 Gbps port routing, and split tunneling bypasses.

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/nordvpn-speed-test/)

URL: <https://www.vpn.com/vpn/nordvpn-speed-test/>

Your NordVPN Speed Learning Roadmap

- Analyze the technical architecture and configuration rules of NordVPN Speed Test.
- Configure client settings to prevent IP, DNS, and WebRTC traffic leaks.
- Compare custom pricing, trial, and performance features against standard models.

NORDVPN SPEED GUIDE 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 server load and latency ping optimization.

OPTIMIZING DOWNLOAD THROUGHPUT & LATENCY PING METRICS (INTRODUCTION)

NordVPN maintains high connection performance through its WireGuard-based NordLynx protocol and 10 Gbps network ports. Throughput depends on server loads and physical distances, which can be optimized using split tunneling.

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

Checkpoint 1: Multiple Choice Challenge

1 Which protocol delivers the fastest speeds on NordVPN?

- ☐ A) OpenVPN TCP
- ☐ B) OpenVPN UDP
- ☐ C) NordLynx
- ☐ D) IKEv2

2 What is the backbone connection speed of NordVPN's new nodes?

- ☐ A) 1 Gbps
- ☐ B) 5 Gbps
- ☐ C) 10 Gbps
- ☐ D) 100 Gbps

3 How does server load affect overall throughput speed?

- ☐ A) Speeds Increase
- ☐ B) High Load Drops Speed
- ☐ C) No Effect On Speed
- ☐ D) Improves Latency

4 Which feature excludes specific web traffic to optimize line speed?

- ☐ A) Double VPN
- ☐ B) Split Tunneling
- ☐ C) Kill Switch
- ☐ D) Threat Protection

5 What metric determines the packet travel delay to a VPN node?

- ☐ A) Throughput
- ☐ B) Ping Latency
- ☐ C) MTU Overhead
- ☐ D) Bandwidth Capacity

Checkpoint 2: True or False Challenge

6 Question 6

NordLynx offers faster download speeds than standard OpenVPN.

☐

True

☐

False

7 Question 7

NordVPN enforces monthly data transfer limits on Basic plans.

☐

True

☐

False

8 Question 8

Double VPN connections have lower ping than standard connections.

☐

True

☐

False

9 Question 9

Obfuscated servers generally reduce throughput due to packet processing.

☐

True

☐

False

10 Question 10

Ethernet connections typically offer lower latency than Wi-Fi links.

☐

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. High-performance download speeds are achieved using the custom _____ protocol.
2. NordVPN is upgrading its primary infrastructure backbone to _____ connections.
3. Network response delay and packet transit lag are measured as _____ ping.
4. The total volume of data transmitted over the tunnel is the _____ metric.
5. High-bandwidth applications can run outside the tunnel via _____ settings.
6. Packet encryption headers add unavoidable network data _____ limits.
7. Connecting to a node with high user density drops connection _____ rates.
8. NordVPN provides all subscribers with completely unlimited _____ globally.

VOCABULARY WORD BANK

NORDLYNX
SPLITTUN

TENGBPSX
OVERHEAD

LATENCY
LOADCAPT

THROUGH
BANDWIDT

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.

NORDLYNX

C The round-trip packet transmission time measured in milliseconds.

TENGBPSX

F The additional data headers required to encrypt and encapsulate packets.

LATENCY

D The volume of data successfully transmitted per second.

THROUGHPUT

G The percentage of server capacity consumed by connected users.

SPLITTUN

A NordVPN's custom protocol built on the WireGuard standard.

OVERHEAD

E A routing configuration that excludes specific apps from the VPN.

LOADCAP

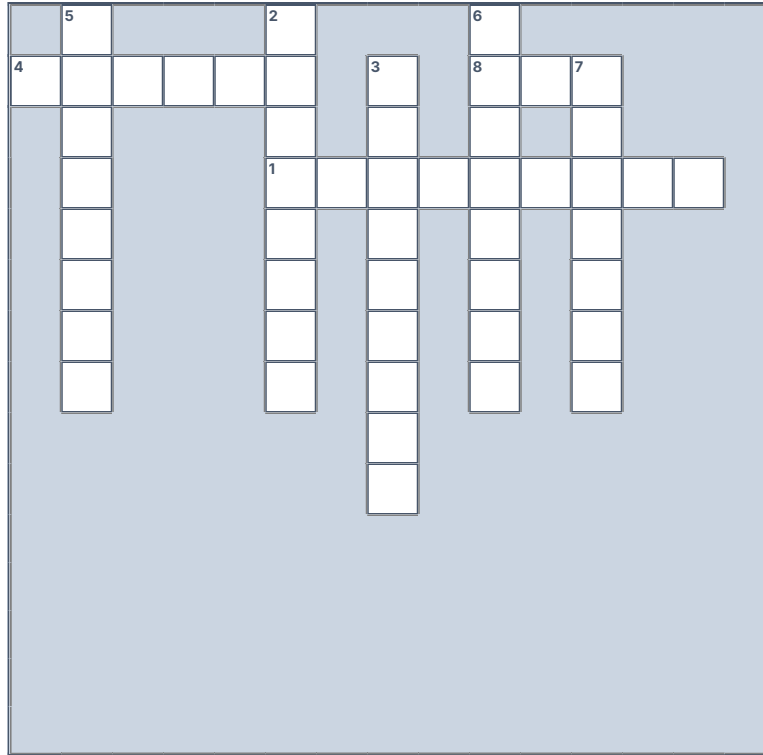
H Uncapped data transfer capacity provided to all subscribers.

BANDWIDTH

B The 10 Gbps hardware ports deployed on NordVPN server nodes.

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: NordVPN's custom protocol built on the WireGuard standard. (8 letters):

3 Across: The round-trip packet transmission time measured in milliseconds. (8 letters):

5 Across: A routing configuration that excludes specific apps from the VPN. (8 letters):

7 Across: The percentage of server capacity consumed by connected users. (8 letters):

DOWN CLUES

2 Down: The 10 Gbps hardware ports deployed on NordVPN server nodes. (8 letters):

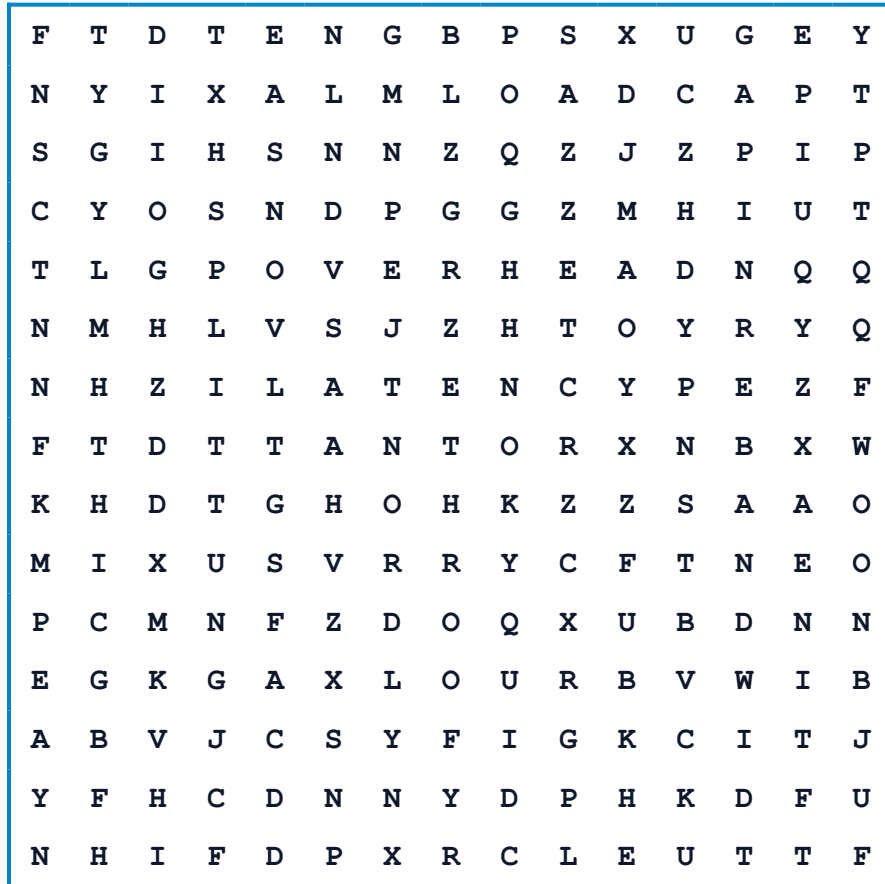
4 Down: The volume of data successfully transmitted per second. (8 letters):

6 Down: The additional data headers required to encrypt and encapsulate packets. (8 letters):

8 Down: Uncapped data transfer capacity provided to all subscribers. (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

NORDLYNX
SPLITTUN

TENGBPSX
OVERHEAD

LATENCY
LOADCAPT

THROUGH
BANDWIDT

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. TENGBPSX
- C. LATENCYP
- D. THROUGHU
- E. SPLITTUN
- F. OVERHEAD
- G. LOADCAPT
- H. BANDWIDT

DEFINITIONS & MATCH FIELDS

- 1. NordVPN's custom protocol built on the WireGuard standard.
- 2. The 10 Gbps hardware ports deployed on NordVPN server nodes.
- 3. The round-trip packet transmission time measured in milliseconds.
- 4. The volume of data successfully transmitted per second.
- 5. A routing configuration that excludes specific apps from the VPN.
- 6. The additional data headers required to encrypt and encapsulate packets.
- 7. The percentage of server capacity consumed by connected users.
- 8. Uncapped data transfer capacity provided to all subscribers.

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. **PLITTUNS**

2. **ENGBPSXT**

6. **VERHEADO**

3. **ATENCYPL**

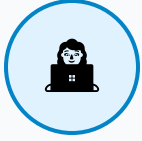
7. **OADCAPT L**

4. **HROUGHUT**

8. **ANDWIDTB**

Checkpoint 8: VPN & Network Case Studies

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



CASE STUDY 1: THROUGHPUT OPTIMIZATION ANALYSIS

Scenario: A user gets 200 Mbps on their home line but only 30 Mbps when using OpenVPN on NordVPN.

Discussion Question: What protocol switch should they perform to restore maximum throughput?



CASE STUDY 2: MITIGATING HIGH GAMING PING

Scenario: A gamer experiences a ping of 150ms when connecting to a random NordVPN server.

Discussion Question: How should they select a server to reduce latency to under 30ms?

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 NordVPN fast?

Yes, NordVPN is widely ranked as one of the fastest VPNs thanks to NordLynx and 10 Gbps ports.

Q2: What is NordLynx?

A proprietary protocol built on WireGuard, optimized for high-speed throughput.

Q3: Does NordVPN limit bandwidth?

No, all NordVPN plans include unlimited bandwidth with zero data caps.

Q4: What is ping?

Ping measures the latency or time it takes for data to travel to the server and back.

Q5: Can I use NordVPN for streaming?

Yes, high-speed servers easily stream 4K and Ultra HD content without buffering.

Checkpoint 10: Basic VPN FAQs (Part B)

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

Q6: How do server loads affect speed?

Servers with high loads have more users, which can reduce individual speeds.

Q7: Does OpenVPN UDP speed differ from TCP?

Yes, UDP is faster because it does not require packet receipt confirmation.

Q8: Does NordVPN support split tunneling?

Yes, split tunneling is supported on Windows, Android, and Android TV.

Q9: What is MTU?

Maximum Transmission Unit; optimizing MTU prevents packet fragmentation speed drops.

Q10: Are NordVPN servers 10 Gbps?

Yes, NordVPN is upgrading its network infrastructure to 10 Gbps server ports.

Checkpoint 11: Advanced VPN FAQs (Part A)

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

Q1: Why does encryption reduce speed?

Encrypting data packets adds overhead and requires CPU processing, reducing speeds slightly.

Q2: How does split tunneling save bandwidth?

It routes heavy downloads outside the VPN, reserving VPN bandwidth for sensitive apps.

Q3: What is the speed impact of Double VPN?

Double VPN encrypts traffic twice through two servers, increasing ping and reducing throughput.

Q4: How do RAM-only servers help speed?

RAM execution speeds up read/write operations compared to traditional disk arrays.

Q5: How does distance increase ping?

Data packets take longer to travel across longer physical distances, raising latency.

Checkpoint 11: Advanced VPN FAQs (Part B)

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

Q6: Can I speed up my connection?

Yes, switch to NordLynx, choose a low-load server, or use a wired Ethernet connection.

Q7: Why is the VPN slow on my router?

Most consumer routers lack the CPU power needed to encrypt data quickly.

Q8: Does Threat Protection affect speed?

No, it blocks ads and trackers, which can actually speed up page load times.

Q9: What are Quick Connect algorithms?

They analyze distance and server load to automatically connect you to the fastest node.

Q10: Is bandwidth throttling bypassed?

Yes, encrypting your data hides it from your ISP, preventing selective speed caps.

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

NordLynx protocol is optimized to deliver superior throughput compared to legacy protocols.

2. VPN INSIGHT

NordVPN is upgrading its core server infrastructure to 10 Gbps connection ports.

3. VPN INSIGHT

Bandwidth caps are completely omitted across all subscription plan tiers.

4. VPN INSIGHT

Server load capacity indicators show the percentage of users active on a server.

5. VPN INSIGHT

Double VPN doubles encryption processing, directly raising ping latency metrics.

6. VPN INSIGHT

Obfuscated servers add encapsulation layers to bypass firewalls, reducing speed.

7. VPN INSIGHT

Split tunneling lets you exclude high-bandwidth apps to preserve line performance.

8. VPN INSIGHT

Ethernet connections minimize local packet loss, offering lower latency than Wi-Fi.

9. VPN INSIGHT

Local DNS resolvers on NordVPN server nodes reduce domain resolution query times.

10. VPN INSIGHT

Optimizing MTU settings prevents packet fragmentation and connection speed drops.

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: C

TEACHING NOTE

Which protocol delivers the fastest speeds on NordVPN?

Citation: IETF VPN RFC [Ref 3].

2 Network Check 2

VPN PROTECTION

Correct Answer: C

TEACHING NOTE

What is the backbone connection speed of NordVPN's new nodes?

Citation: IETF VPN RFC [Ref 3].

3 Network Check 3

VPN PROTECTION

Correct Answer: B

TEACHING NOTE

How does server load affect overall throughput speed?

Citation: IETF VPN RFC [Ref 3].

4 Network Check 4

VPN PROTECTION

Correct Answer: B

TEACHING NOTE

Which feature excludes specific web traffic to optimize line speed?

Citation: IETF VPN RFC [Ref 3].

5 Network Check 5

VPN PROTECTION

Correct Answer: B

TEACHING NOTE

What metric determines the packet travel delay to a VPN node?

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 offers faster download speeds than standard OpenVPN.

Citation: IETF VPN RFC [Ref 3].

7 Network Rule 2

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

NordVPN enforces monthly data transfer limits on Basic plans.

Citation: IETF VPN RFC [Ref 3].

8 Network Rule 3

VPN PROTECTION

Correct Answer: False

TEACHING NOTE

Double VPN connections have lower ping than standard connections.

Citation: IETF VPN RFC [Ref 3].

9 Network Rule 4

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

Obfuscated servers generally reduce throughput due to packet processing.

Citation: IETF VPN RFC [Ref 3].

10 Network Rule 5

VPN PROTECTION

Correct Answer: True

TEACHING NOTE

Ethernet connections typically offer lower latency than Wi-Fi links.

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 TENGbpsX

C LATENCY

D THROUGHU

E SPLITTUN

F OVERHEAD

G LOADCAPT

H BANDWIDT

CHECKPOINT 3: KEY TERM KEY

1 NORDLYNX

2 TENGbpsX

3 LATENCY

4 THROUGHU

5 SPLITTUN

6 OVERHEAD

7 LOADCAPT

8 BANDWIDT

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

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

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. ORDLYNXN

NORDLYNX

5. PLITTUNS

SPLITTUN

2. ENGBPSXT

TENGBPSX

6. VERHEADO

OVERHEAD

3. ATENCYPL

LATENCYP

7. OADCAPTL

LOADCAPT

4. HROUGHUT

THROUGHU

8. ANDWIDTB

BANDWIDT

SECRET CIPHER CHALLENGE KEY

**"NORDLYNX TUNNEL SPEED OUTPERFORMS STANDARD
OPENVPN PROTOCOLS"**

VPN & Network Case Studies Solution Key

A Case Study 1: Throughput Optimization Analysis

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A user gets 200 Mbps on their home line but only 30 Mbps when using OpenVPN on NordVPN.
- **Recommended Strategy & Solution:** Switch the VPN protocol to NordLynx to utilize WireGuard speed advantages.

B Case Study 2: Mitigating High Gaming Ping

[Instructor Solution](#)

GRADING GUIDELINE

Student answers should cover the following points:

- **Scenario Analysis:** A gamer experiences a ping of 150ms when connecting to a random NordVPN server.
- **Recommended Strategy & Solution:** Select a server located physically closest to the game host servers.