VPN PERFORMANCE ANALYSIS

Conducted on: 4th July 2025

Test Parameters

- VPN Service: Proton VPN (Free Tier)
- Test Location: Netherlands Server
- Testing Tools: Ookla SpeedTest, DNSLeakTest

Speed Test Results

Metric	Without VPN	With VPN	Difference
Download (Mbps)	30.10	21.50	▼ 28.6%
Upload (Mbps)	30.77	29.71	▼ 3.4%

Security Assessment

- ✓ DNS Leak Test: No leaks detected
- ✓ IP Masking: Successful (Original IP hidden)
- ✓ Encryption: AES-256 confirmed

Notable Limitations

- Significant download speed reduction (28.6%)
- Limited server selection on free plan
- 10GB monthly data cap

Work Performed

- 1. Established baseline network speeds without VPN
- 2. Connected to ProtonVPN Netherlands server
- 3. Conducted multiple speed tests under both conditions
- 4. Verified DNS/IP leak protection
- 5. Analyzed encryption effectiveness
- 6. Documented all findings

Report generated from secure terminal | Data sanitized for privacy