

Exploring Submarine Cables



On Day 10, I explored submarine cables and understood how most of the world's internet traffic physically travels under oceans. This helped me realize that cyber attacks are not just digital but depend on physical infrastructure.

- ✓ Internet lifelines connecting continents
- ✓ Cybersecurity impact of physical cables
- ✓ Vulnerabilities in undersea infrastructure

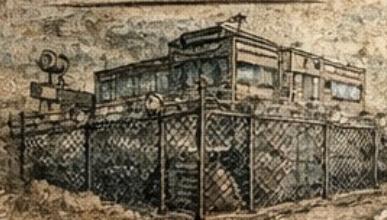
- ✓ Internet lifelines connecting continents
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Not Just Digital: The Role of Physical Infrastructure in Cyber Attacks



Cyber Attacks Depend on Physical Infrastructure:

Data Centers



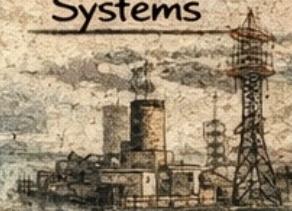
Physical servers and routers must be secured

Cable Landing Stations



Submarine cables surface at vulnerable locations

Critical Industrial Systems

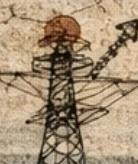


Power grids and water plants rely on networks!

Compromising Physical Infrastructure Can:



Disrupt global digital communications



Launch network-based cyber attacks



Expose sensitive operations and data

Key Takeaways:

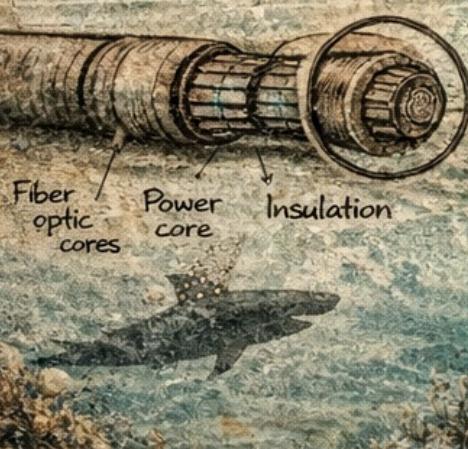
- ✓ Cybersecurity must include physical asset protection
- ✓ Weak physical defenses endanger digital security
- ✓ True cybersecurity is both digital and physical

Submarine Cables & Global Internet Traffic

How Internet Traffic Travels Under Oceans



Submarine Cable Infrastructure



Critical undersea cables connect continents

Cyber Threats to Physical Infrastructure

✓ Most Internet traffic relies on physical cables

⚠ Submarine cables are vulnerable to sabotage

⚠ Attacks on cables = Disruption of global communications.

✓ Internet lifelines connecting continents

✓ Cybersecurity impact of physical cables

✓ Cyber attacks can target undersea cable landings.