

CONNECTIVITYWhere do we go?

Advanced connectivity & cyber security solutions

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The rise of (fast) LEO connections

The race started on July 2022 (SpaceX)



Latency of 40 MS or less



Speeds of 200 Mbit+

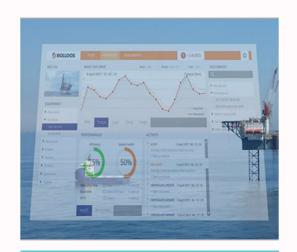


Internet on a vessel





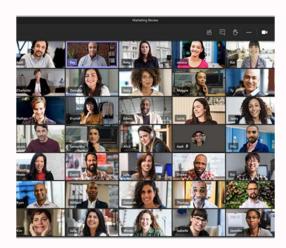
Better connectivity & more technology



The result of improved connectivity is that people tend to connect more.



We 'love' to have everything connected to the Internet, but should we?



Videocalling will result in lower travel costs.





• Maritime systems are often EOL

• Windows 10 next year EOL - no updates

 With connections like home, it's no 'challenge' for an attacker to get into a vessel.

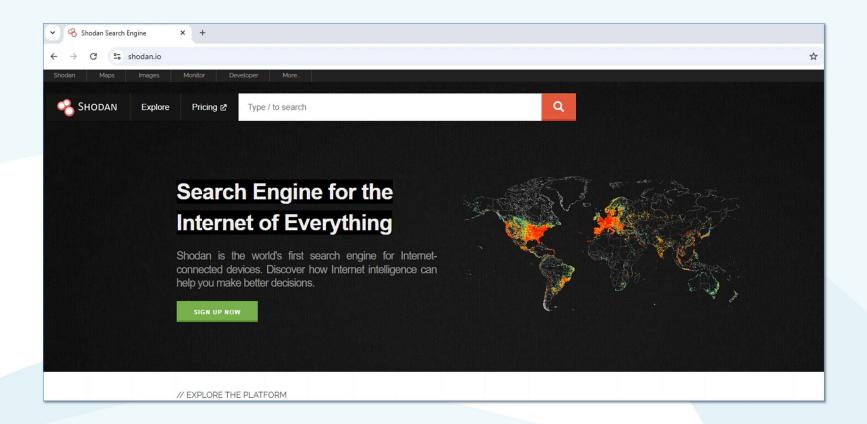
 Limited budgets available as IT is not part of the operational costs

 Majority of current attacks comes from users onboard the vessel. Not external.. yet!

Targeted cyber attacks

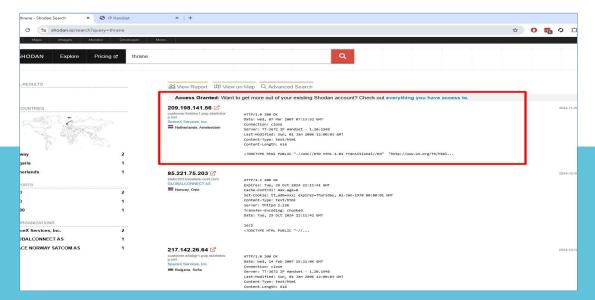
"If the enemy leaves a door open, you must rush in."

Sun Tzu





nap -T4 -A -v 209.198.141.56
utiating NSt at 22:39 mpleted NSE at 22:39, 1.40s elapsed itiating NSE at 22:39
mpleted NSE at 22:39, 0.00s elapsed
st is up (0.047s latency).
ot shown: 996 filtered tcp ports (no-response)
RT STATE SERVICE VERSION 3/tcp closed ident
1/tcp open reverse-ssl SSL/TLS ClientHello
fingerprint-strings:
NULL: 5`a/
5 a/ !support.fortinet-ca2.fortinet.com
California1
Sunnyvale1 Fortinet1
Certificate Authority1
fortinet-subca2003
Californial
Sunnyvale1 Fortinet1
Certificate Authority1
support1#0!
support@fortinet.com
Sunnyvale1
Fortinet1
Certificate Authority1 fortinet-ca21#0!
fortinet-ca21#0: support@fortinet.com
Californial
Sunnyvale1
Fortinet1 Certificate Au
83/tcp open us-srv?
fingerprint-strings:
FourOhFourRequest: HTTP/1.0 404 Object Not Found
Date: Tue. 13 Mar 2007 04:30:11 GMT
Connection: close
Server: IT-3672 IP Handset - 1.20.1948
Content-Type: text/html Content-Length: 95
<pre><html><head><title>Not Found</title></head><body>The requested URL was not f</body></html></pre>
GetRequest:





Rules and regulations

- All vessels larger than 500 GT
- Better protection of both IT & OT
- No guidelines, but regulations
- Investing in IT and cyber is crucial
- Yearly inspections / audits
- Class certification













Costs involved

The need to invest in solid IT and cybersecurity solutions













The need to invest in solid IT and cybersecurity solutions

WHICH
SOLUTIONS ARE
MANDATORY?



- Endpoint Protection
- UTM
- NDR
- Vulnerability Management
- MFA
- Awareness training
- SOC

Why take action?

- To avoid longer port stays due to network disruption
- In tenders/ bids customers are asking what YOU are doing to protect their data.
- Protecting your company data (scandals)
- Responsible for crew data
- To avoid potential claims
- Just because it is the right thing to do!







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