

### **Hacking Ships**

#### What Would a Hacker Do?

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manufactories, function ngSwitchWatchAction(value)

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restousElements[i].remove();</pre>

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 wrinetIndexpes[i].destruy();
 rwrinetElements[i] = selected;
 immants.lewerSelected; function() {
 prvinusElements.splice(i, 1);
 }
}</pre>

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wlectedScopes.length = 0;

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#### #whoami

#### Carsten Cordes

- Security Consultant & Software Developer at HEC
  - Software Development Company in Bremen
- Coaching Teams in Security Aware Development
- Penetration Tester
- #1 in Cyber Security Challenge Germany 2015
- Passionate about breaking things  $\textcircled{\odot}$





#### **Recent incidents**

## IT-ENGINEERING

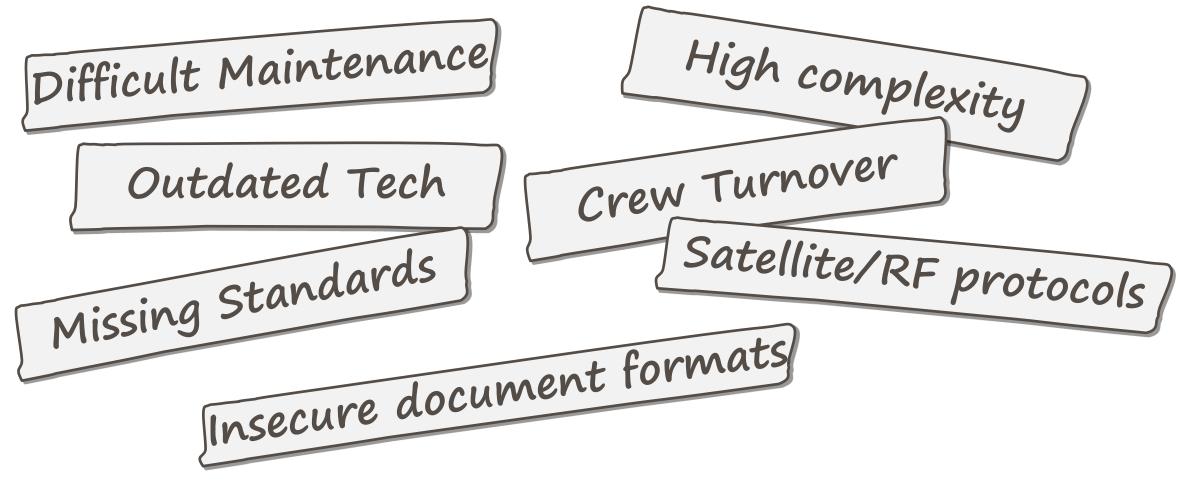
#### Maersk Reinstalled 45,000 PCs and 4,000 Servers to Recover From NotPetya Attack



Svitzer employee details stolen in data breach

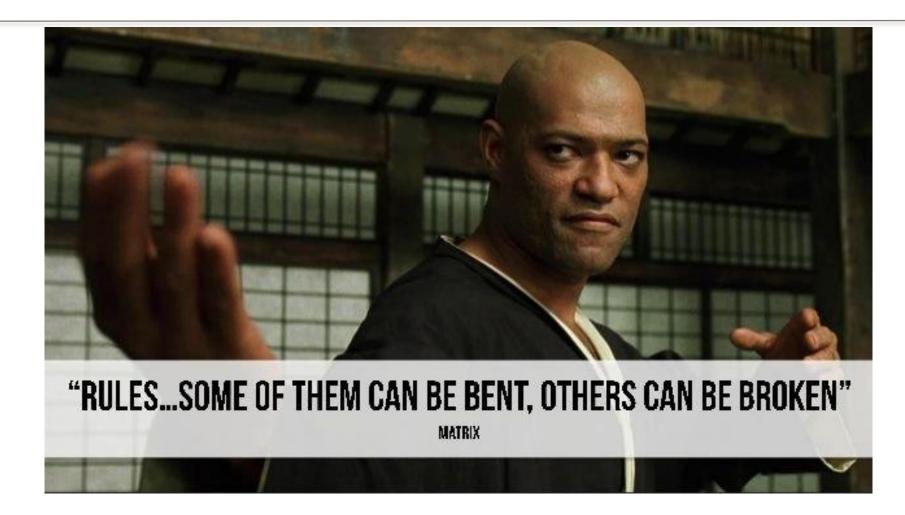
affecting almost half of its Australian employees

# Challenges in Maritime Cybersecurity



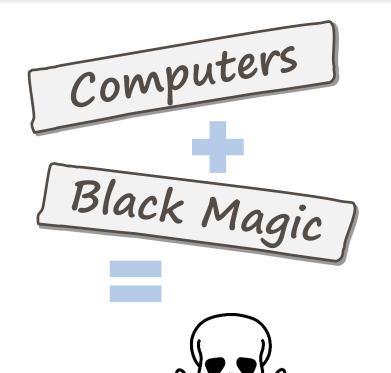
## IT-ENGINEERING

#### A hackers mindset





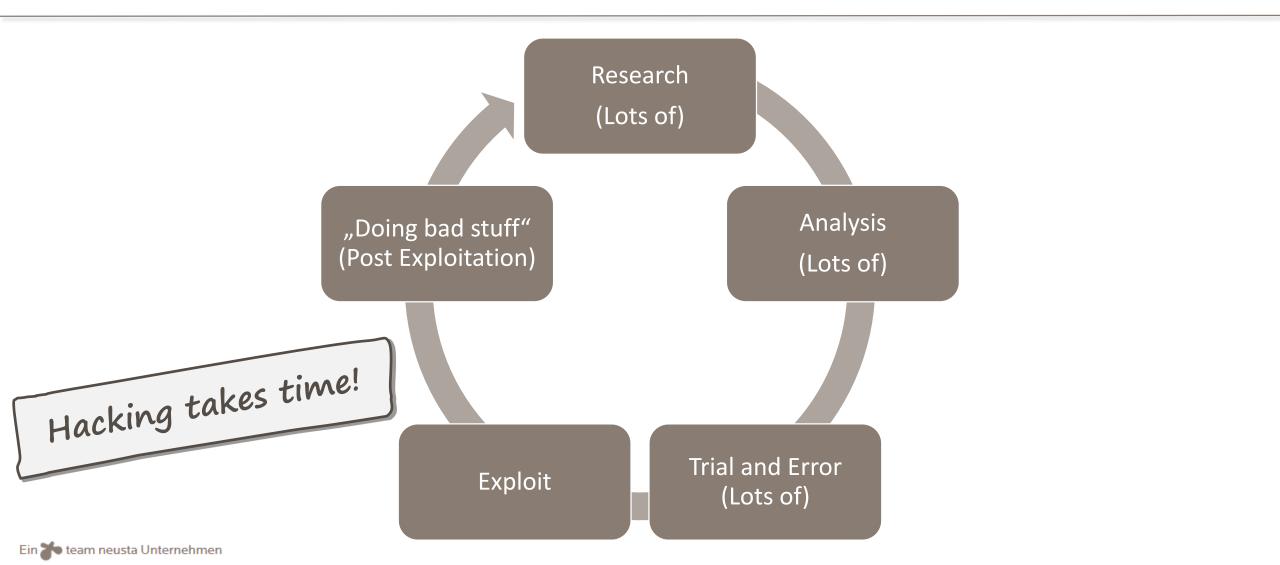
#### Hacking according to media





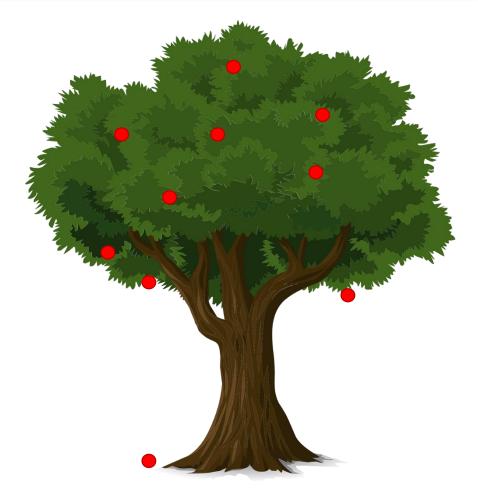


### Hacking in reality



### The low hanging fruit



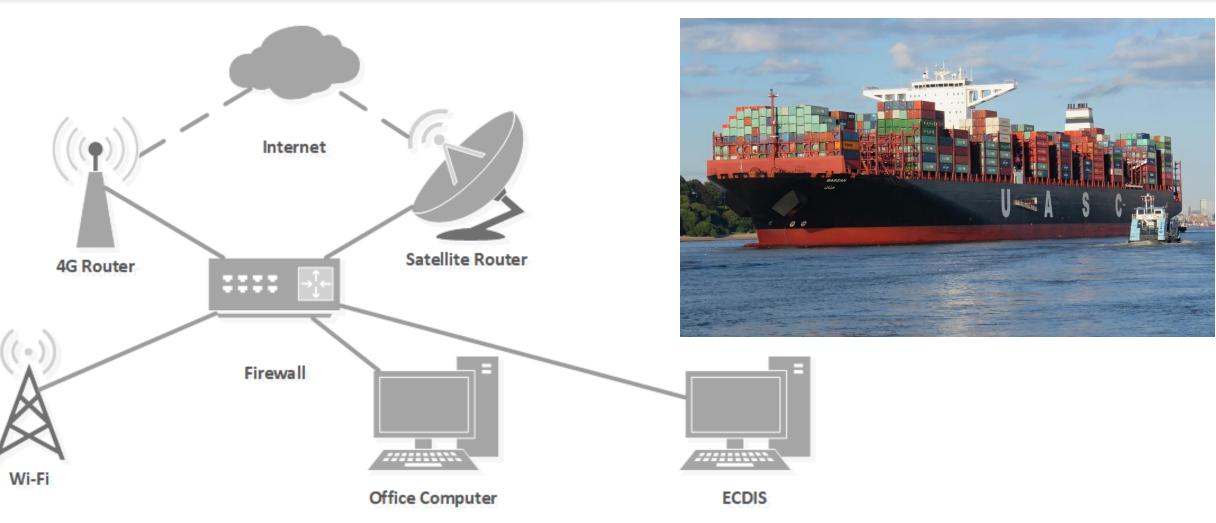


Hackers look for the easiest way to reach their goal.



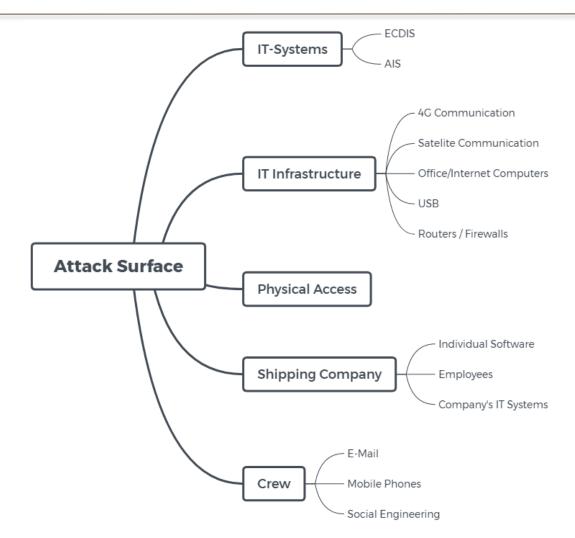
## IT-ENGINEERING

#### Hacking a vessel



# IT-ENGINEERING

#### **Attack Surface**







### Demonstration





#### **Defending yourself**

