

3.

Sikkerhed i web applikationer

Sikker software, hvorfor?

- Usikker software
- GDPR
 - Etik
 - Ansvarlighed
- 'Prevention is cheaper than the cure'
- NotPetya omkostninger på \$1.2B

Phase	Relative cost to correct
Definition	\$1
High-level Design	\$2
Low-level Design	\$5
Code	\$10
Unit test	\$15
Integration test	\$22
System test	\$50
Post-delivery	\$100

Hvordan bliver software usikkert?

- Design fejl
 - Privelegier
 - Insecure defaults
 - Defence in depth
- Implementations fejl
 - Input validering
 - Fejlhåndtering
- Maintainence
 - Unpatched software
 - Legacy systemer
- Højkvalitetssoftware = Bedre sikkerhed

OWASP top 10

- *Broken Access Control*
- *Cryptographic Failures*
- *Injection*
- *Insecure Design*
- *Security Misconfiguration*
- *Vulnerable and outdated components*
- *Identification and authentication failures*
- *Software and Data integrity Failures*
- *Security Logging and Monitoring Failures*
- *Server-Side Request forgery*

Frameworks

- Python XML
- Django
- Representational State API (REST API)
 - Uniform Interface
 - Statelessness
 - Cacheability
 - Layered architecture

Scan & test

- SSLScan
 - Misconfiguration
- Nikto
 - Farlige filer og programmer
 - Outdated versions
 - Misconfiguration
 - Vulnerabilities