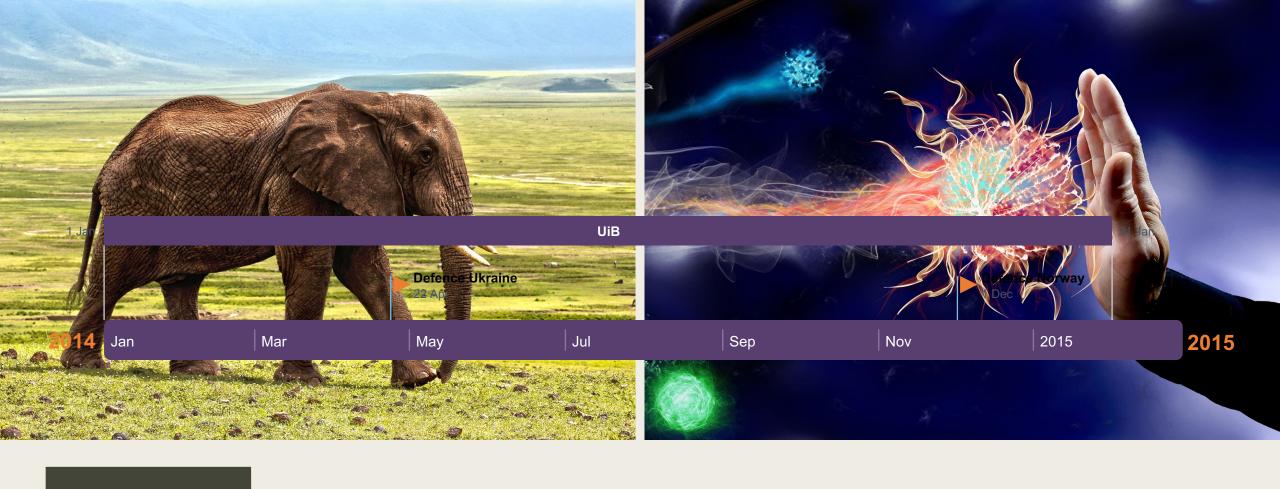
TIME-LAPSE IN INDUSTRY: 5 YEARS IN 40 MINUTES

Oleksandr Kazymyrov

whoami

I received a Ph.D. degree in Information Security, and I am co-author of Ukrainian national standards for block cipher and hash function (DSTU 7624:2014 and DSTU 7564:2014). I am an expert in network security with several certifications such as CISSP, EICEH (Certified Ethical Hacker) and E|CES (Certified Encryption Specialist). In addition, as a technical test manager / test analyst at EVRY, I have gained expertise in various areas of information security (i.e., security and risk management, network security, penetration testing, and operation of critical and security systems). My current position is Information Security Manager with the overall responsibility of information security in G2 Ocean, Grieg Star and Gearbulk.





DEFENSE



GRADUATION



OWASP TOP TEN

THEN 2013

A1 - SQL injection

A2 - Broken Authentication and Session Management

A3 - Cross Site Scripting (XSS)

A4 - Insecure Direct Object references

A5 - Security Misconfigurations

A6 - Sensitive Data exposure

A7 - Missing Function Level Access Control

A8 - Cross-Site Request Forgery (CSRF)

A9 — Using components with Known Vulnerabilities

A10 - Unvalidated Redirects and Forwards

NOW 2017

A1 - Injection

A2 - Broken Authentication -

A3 - Sensitive Data Exposure

A4 - XML External Entities (XEE New!

A5 - Broken Access Control

A6 - Security Misconfigurations

A7 - Cross Site Scripting (XSS)

New! A8 - Insecure Deserialization

A9 - Using components with Known Vulnerabilities

A10 — Insufficient logging and monitoring





	Applicability	Building			Building, Configuration, Deployment Assurance and Verification			Assurance and Verification	
Level 1	All apps		Secure Coding	Standards and checklists	Secure & Peer Code Review	DevSecOps	Unit and Integration Tests	Penetration Testing	DAST
Level 2	All apps	Security Architecture and Reviews	Secure Coding	Standards and checklists	Secure & Peer Code Review	DevSecOps	Unit and Integration Tests	Hybrid Reviews	SAST
Level 3	High Assurance	Security Architecture and Reviews	Secure Coding	Standards and checklists	Secure & Peer Code Review	DevSecOps	Unit and Integration Tests	Hybrid Reviews	SAST
	Legend	Acceptable	Suitable						



Measure Cyber Exposure and benchmark against peers



Vulnerability Management On-Prem



Vulnerability Management in the Cloud







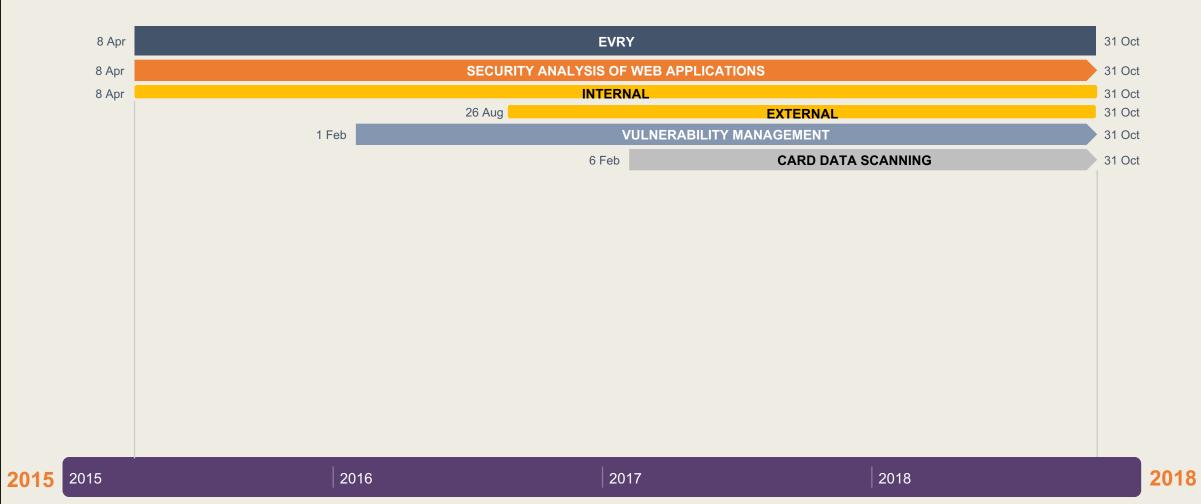
















HVOR FORNØYD ER DU MED...

Totalopplevelsen hos oss i dag

























Renhold av fat, bestikk, glass og brett























Variasjonen i salatbaren











Kommentar

Noe annet du ønsker å fortelle oss?

Irrelevant spørsmål? Bare trykk X

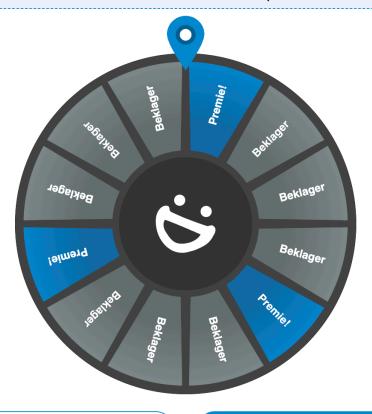






Spinn & Vinn

Kontakt Restaurantlederen for premie



NEI TAKK

SPINN!







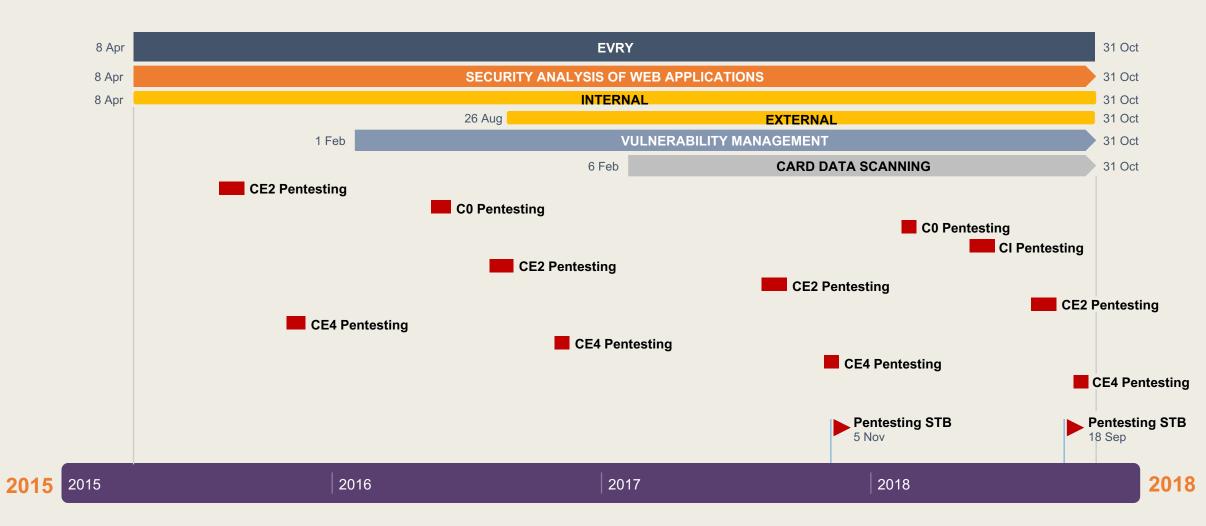
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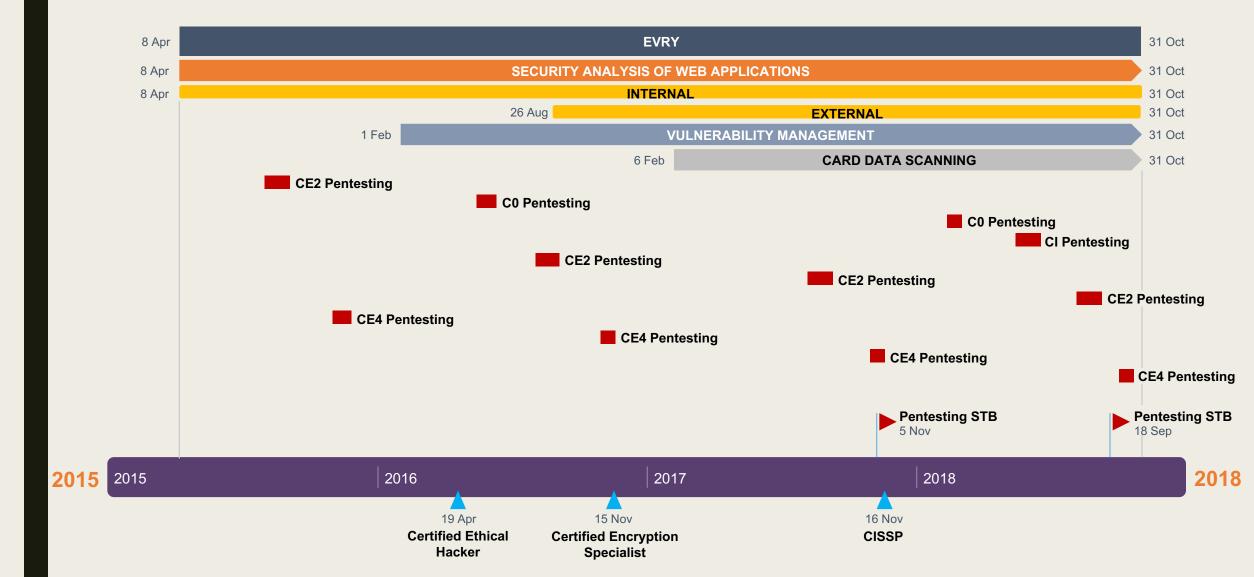








CERTIFICATIONS



Talks

■ EHIN 2018

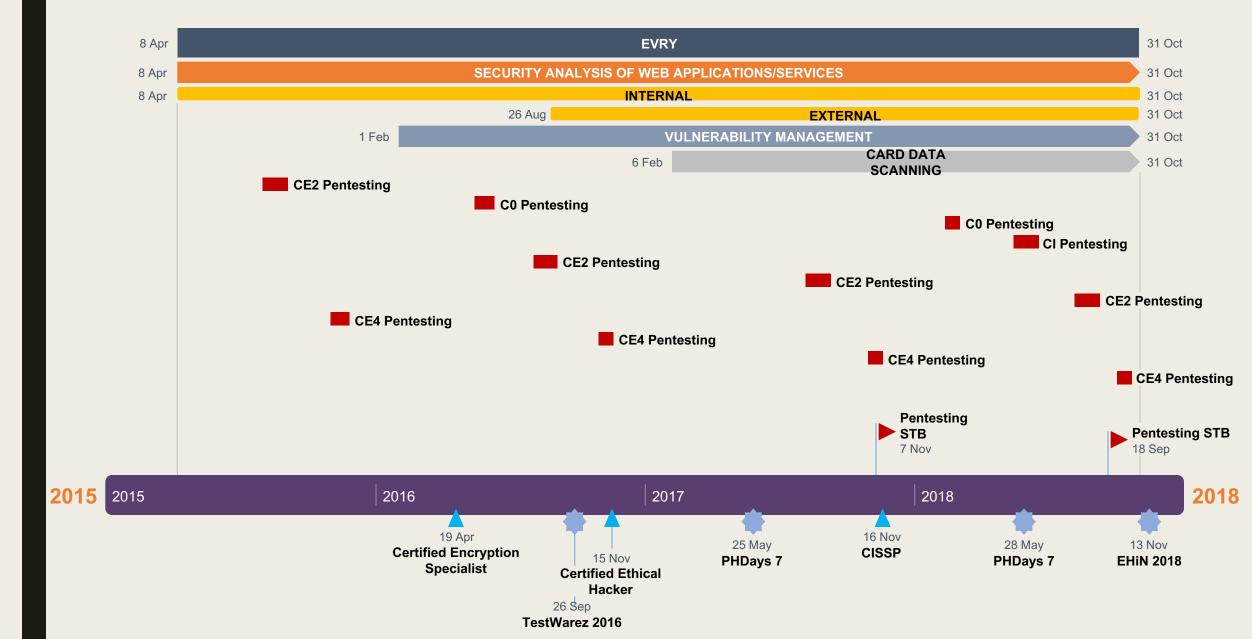
Kan krypto gjøre at hvor data lagres blir uvesentlig?

- NDC Oslo 2018

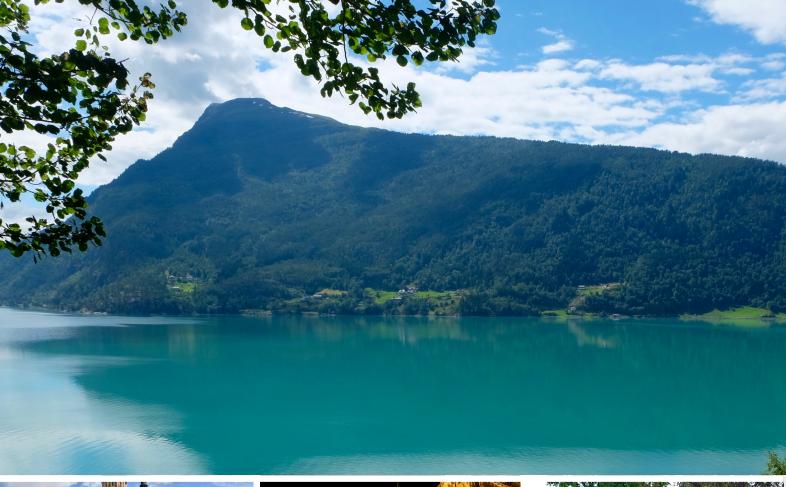
 Getting benefits of OWASP ASVS at initial phases
- PHDays 7

 Jumping from Tenable's SecurityCenter CV to production environments
- TestWarez 2016

 OWASP ASVS for NFTaaS in Financial Services





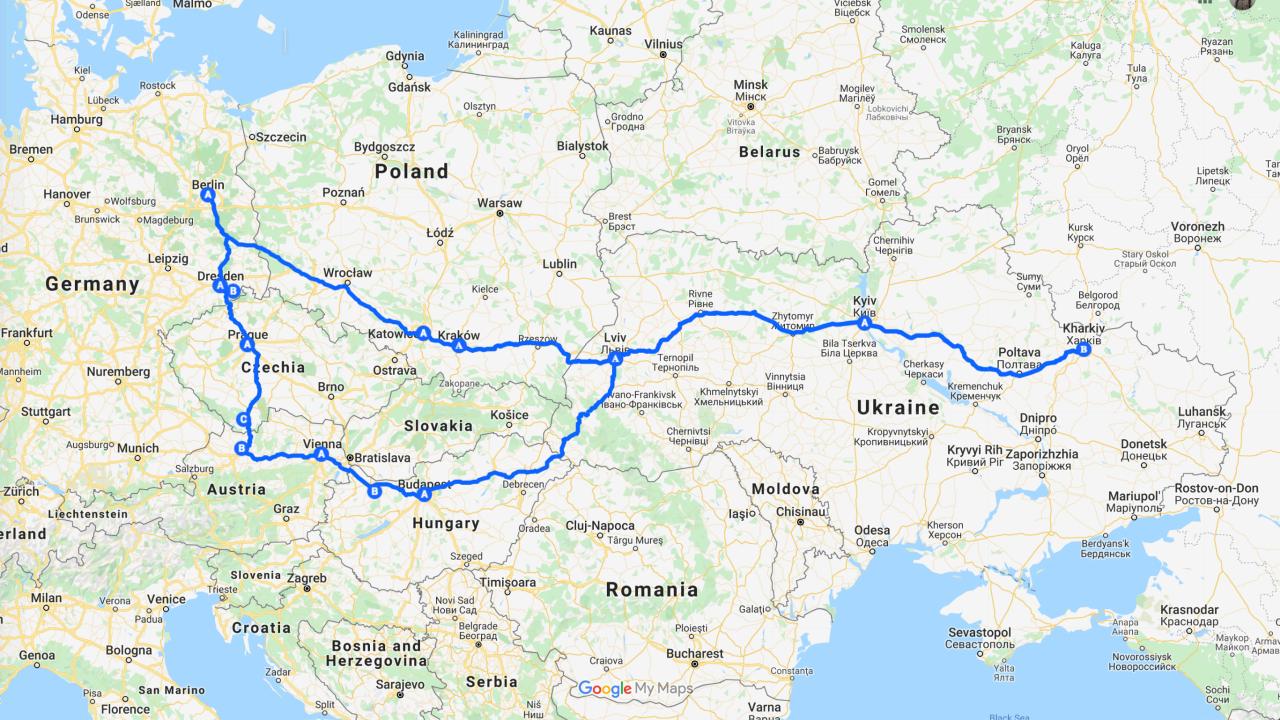


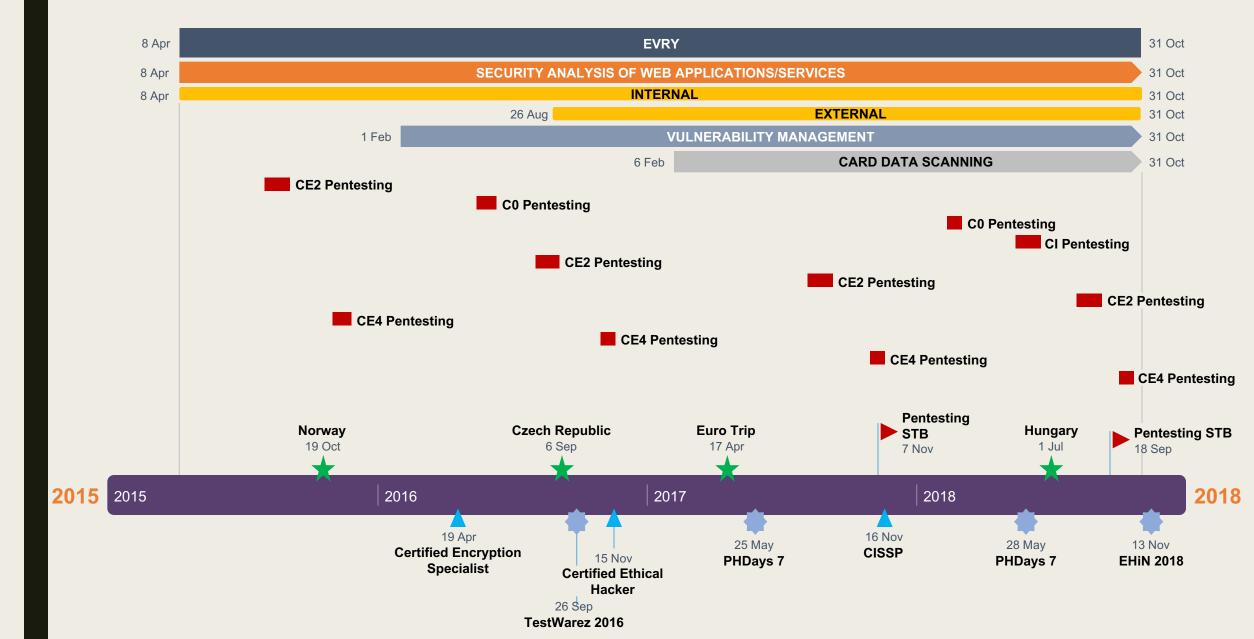










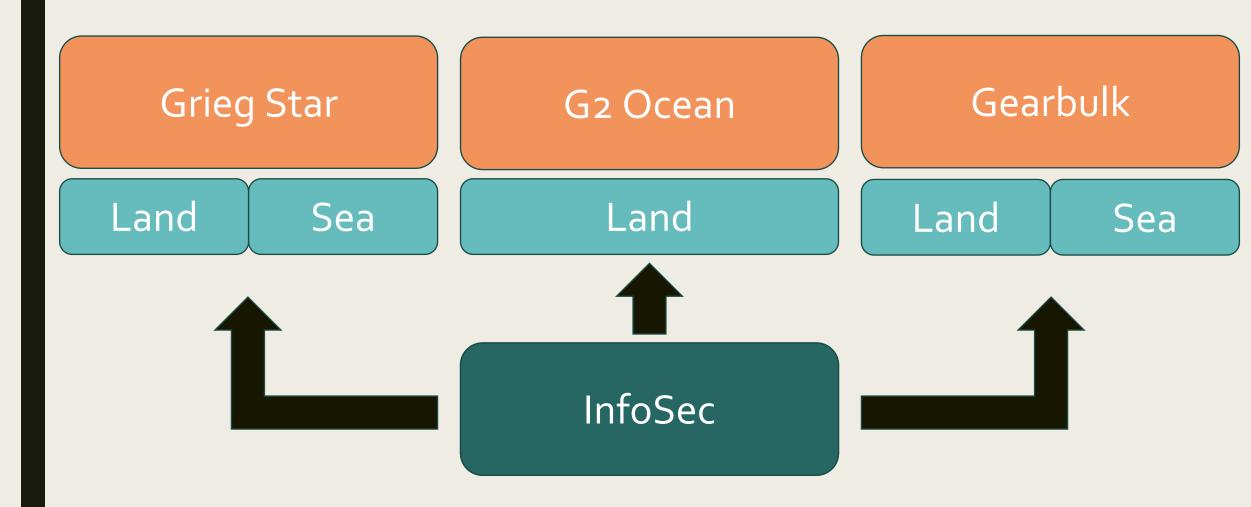


G2 OCEAN

PIONEERING SUSTAINABLE SHIPPING SOLUTIONS



What is UnITy?



Metamorphosis



Tier 1

Organizational

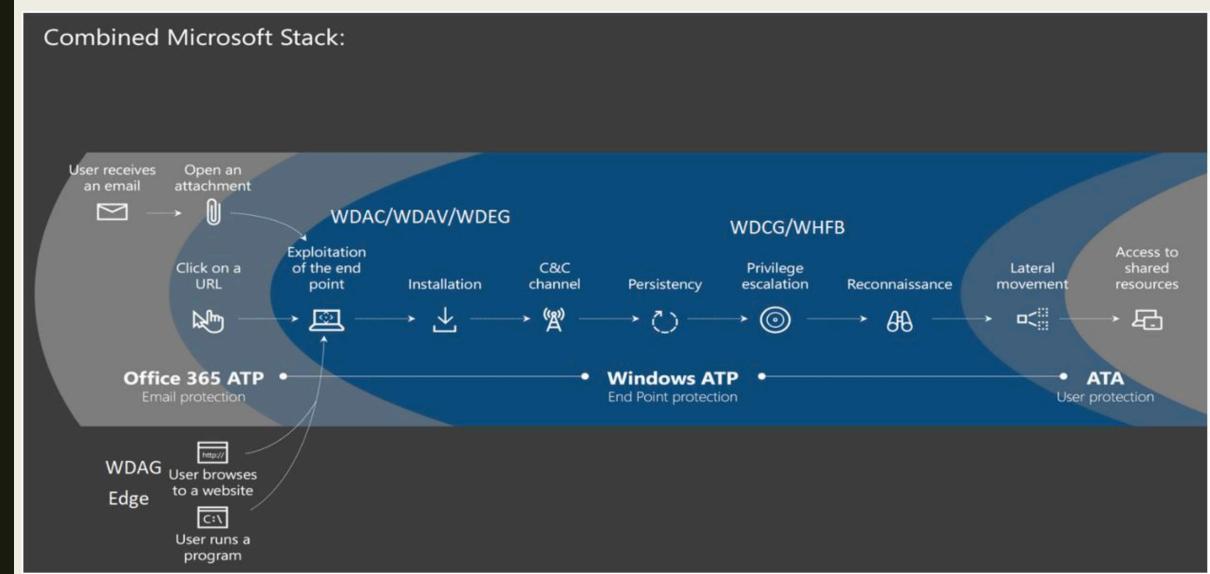
Tier 2:

Mission/Business Processes

Tier 3:

Information Technology

The Cyber Kill Chain



Initial Access	Execution	Persistence	Privilege Escalation	Defense Evasion	Credential Access	Discovery	Lateral Movement	Collection	Command And Control	Exfiltration	Impact
Drive-by Compromise	AppleSoript	.bash_profile and .bashro	Access Token Manipulation	Access Token Manipulation	Account Manipulation	Account Discovery	AppleSolpt	Audio Capture	Commonly Used Port	Automated Extitation	Data Destruction
Exploit Public-Facing Application	CMSTP	Accessibility Features	Accessibility Features	Binary Padding	Bash History	Application Window Discovery	Application Deployment Software	Automated Collection	Communication Through Removable Media	Data Compressed	Data Encrypted for Impact
External Remote Services	Command-Line Interface	Account Manipulation	AppCert DLLs	BITS Jobs	Brute Force	Browser Bookmark Discovery	Distributed Component Object Model	Clipboard Data	Connection Proxy	Data Encrypted	Defacement
Hardware Additions	Compiled HTMLFile	AppCert DLIs	Appinit DLLs	Bypass User Account Control	Credential Dumping	Domain Trust Discovery	Exploitation of Remote Services	Data from Information Repositories	Custom Command and Control Protocol	Data Transfer Size Limits	Disk Content Wipe
Replication Through Removable Media	Control Panel Items	Appinit DLLs	Application Shimming	Clear Command History	Credentials in Files	File and Directory Discovery	Logon Scripts	Data from Local System	Gustom Cryptographic Protocol	Exfibration Over Alternative Protocol	Disk Structure Wipe
Sperphishing Attachment	Dynamic Data Exchange	Application Shimming	Bypess User Account Control	CMSTP	Credentials in Registry	Network Service Scanning	Pass the Hash	Data from Network Shared Drive	Data Encoding	Exfitration Over Command and Control Channel	Endpoint Denial of Service
Speorphishing Link	Execution through API	Authentication Package	DLL Search Order Hijacking	Code Signing	Exploitation for Credential Access	Network Share Discovery	Pass the Ticket	Data from Removable Media	Data Obfuscation	Exfiltration Over Other Network Medium	Firmware Corruption
Speirphishing via Service	Execution through Module Load	BITS Jobs	Dylb Hjadking	Comple After Delivery	Forced Authentication	Network Sniffing	Remote Desidop Protocol	Data Staged	Domain Fronting	Estitration Over Physical Medium	Inhibit System Recovery
Supply Chain Compromise	Exploitation for Client Execution	Bookt	Exploitation for Privilege Escalation	Compiled HTML File	Hooking	Password Policy Discovery	Remote File Copy	Email C direction	Domain Generation Algorithms	Scheduled Transfer	Network Denial of Service
Trusted Relationship	Graphical User Interface	Browser Extensions	Extra Window Memory Injection	Component Firmware	Input Capture	Peripheral Device Discovery	Remote Services	Input Capture	Falback Channels		Resource Hijacking
Valid Accounts	InstaliUtil	Change Default File Association	File System Permissions Weakness	Component Object Model Hijacking	Input Prompt	Pernission Groups Discovery	Replication Through Removable Media	Man in the Browser	Multi-hop Proxy		Runtime Data Manipulation
	Launchell	Component Firmware	Hooking	Control Panel Items	Kerberoasting	Process Discovery	Shared Webroot	Screen Capture	Muti-Stage Channels		Service Stop
	Local Job Scheduling	Component Object Model Hijacking	Image File Execution Options Injection	DCShadow	Keychain	Query Registry	SSH Hijacking	Video Capture	Multiband Communication		Stored Data Manipulation
	LSASS Driver	Create Account	Launch Daemon	Deobluscate/Decode Files or Information	LLMNR/NBT-NS Poisoning and Relay	Remote System Discovery	Taint Shared Content		Multilayer Encryption		Transmitted Data Manipulation
	Mshta	DLL Search Order Hijacking	New Service	Disabling Security Yooks	Network Sniffing	Security Software Discovery	Third-party Software		Pat Knocking		
	PowerShell	Dylb Hjacking	Path Interception	DLL Search Order Hijacking	Password Filter DLL	System Information Discovery	Windows Admin Shares		Remote Access Tools		
	Regavos/Regasm	External Remote Services	Plist Modification	DLL Side-Loading	Private Keys	System Network Configuration Discovery	Windows Remote Management		Remote File Copy		
	Regsxt32	File System Permissions Weakness	Port Monitors	Execution Guardralis	Securityd Memory	System Network Connections Discovery			Standard Application Layer Protocol		
	Rund132	Hidden Files and Directories	Process Injection	Exploitation for Defense Evasion	Two-Factor Authentication Interception	System OwnerUser Discovery			Standard Cryptographic Protocol		
	Scheduled Task	Hooking	Scheduled Task	Extra Window Memory Injection		System Service Discovery			Standard Non-Application Layer Protocol		
	Scripting	Hypervisor	Service Registry Permissions Weakness	File Deletion		System Time Discovery			Uncommonly Used Port		
	Service Execution	Image File Execution Options Injection	Setuid and Setgid	File Permissions Modification		Virtualization/Sandbox Evasion			Web Service		
	Signed Binary Proxy Execution	Kernel Modules and Extensions	SID-History Injection	File System Logical Offsets							
	Signed Script Proxy Execution	Launch Agent	Startup tems	Gatekeeper Bypass							
	Source	Launch Daemon	Sudo	Group Policy Modification							
	Space after Filename	Launchof	Sudo Caching	Hidden Files and Directories							
	Third-party Software	LC_LOAD_DYUB Addition	Valid Accounts	Hidden Users							
	Trap	Local Job Scheduling	Web Shell	Hidden Window							
	Trusted Developer Utilities	Login Item		HISTCONTROL							
	User Execution	Logan Scripts		Image File Execution Options Injection							
	Windows Management Instrumentation	LSASS Driver		Indicator Blocking							
	Windows Remote Management	Modify Existing Service		Indicator Removal from Tools							
	XSL Script Processing	Netsh Helper DLL		Indicator Removal on Host							
		New Service		Indirect Command Execution							
		Office Application Startup		Install Root Certificate							

MITRE ATT&CK

Enterprise Techniques: 244

Mobile Techniques: 67

PRE-ATT&CK Techniques: 174

NIST Cybersecurity Framework

Identify

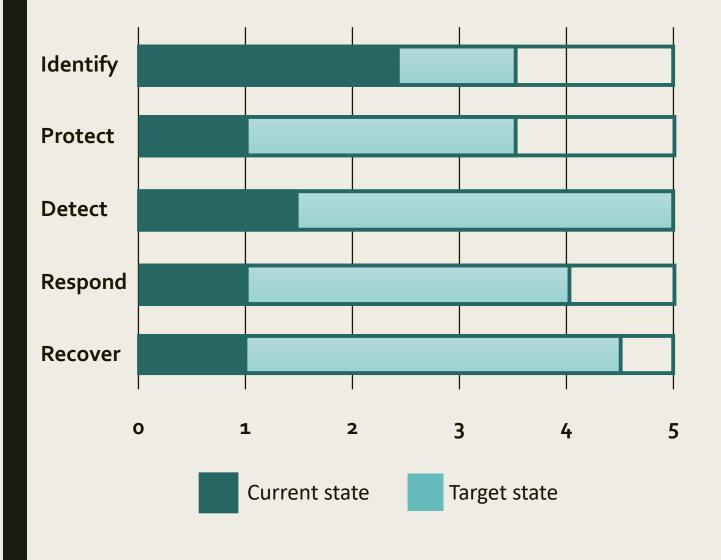
Recover

Protect

Response

Detect

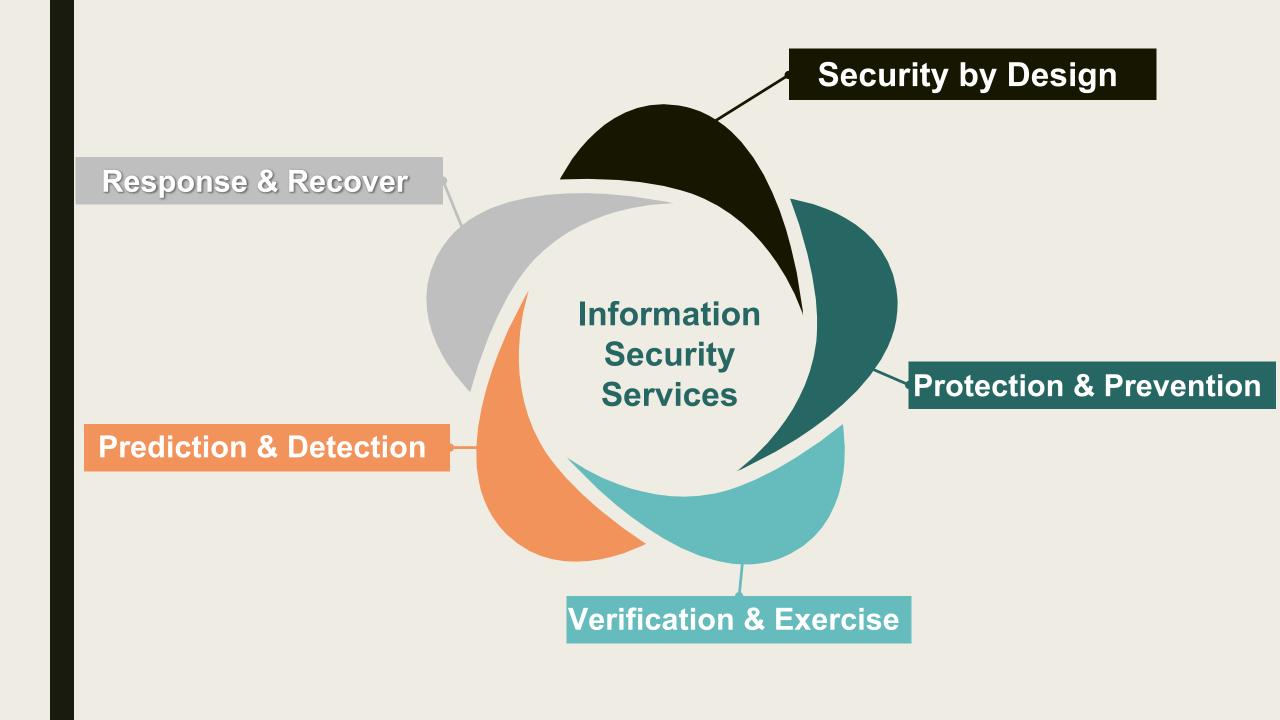
Maturity of Information Security



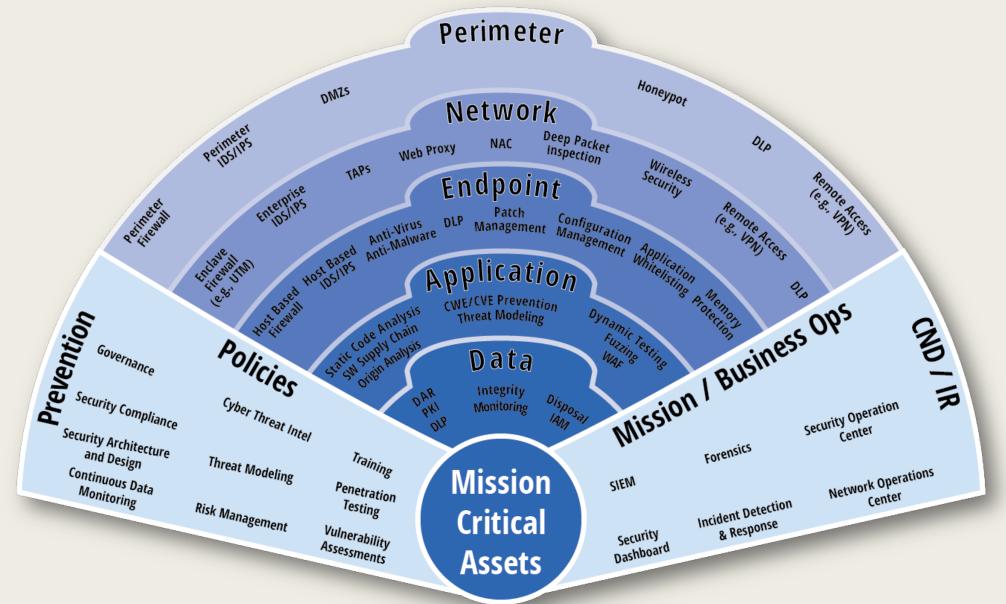
FUNCTION	CATEGORY	CIS CONTROL			
	Asset Management	CIS Control 1, 2			
	Business Environment				
Identify	Governance				
identity	Risk Assessment	CIS Control 3			
	Risk Management Strategy				
	Supply Chain Risk Management				
	Identity Management, Authentication, and Access Control	CIS Control 4, 9, 11, 12, 13, 14, 16			
	Awareness and Training	CIS Control 4, 17			
Protect	Data Security	CIS Control 1, 2, 13, 14, 18			
Protect	Information Protection Processes and Procedures	CIS Control 3, 5, 7, 10, 11			
	Maintenance	CIS Control 4, 12			
	Protective Technology	CIS Control 4, 6, 8, 11, 13, 14, 16			
	Anomalies and Events	CIS Control 6, 9, 12, 19			
Detect	Security Continuous Monitoring	CIS Control 3, 8, 19			
	Detection Processes	CIS Control 6			
	Response Planning	CIS Control 19			
	Communications	CIS Control 19			
Respond	Analysis	CIS Control 3, 19			
	Mitigation	CIS Control 3, 19			
	Improvements	CIS Control 19			
	Recovery Planning	CIS Control 19			
Recover	Improvements	CIS Control 19			
	Communications	CIS Control 19			

Live in G2 Ocean

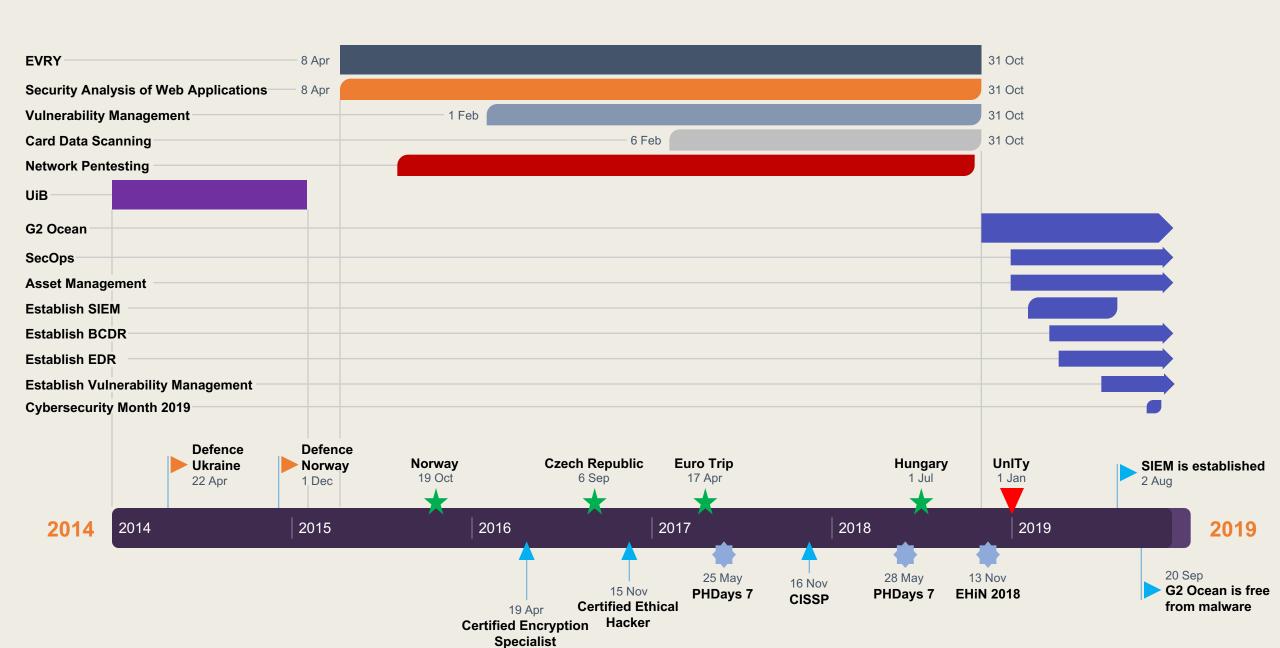




Layered Security (Defence in Depth)



5 Years in 40 Minutes





CYBER SCAPE

