

DIGITAL RESILIENCE AND DORA

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THE IMPORTANT QUESTION

How do you know you have had a cyber attack?



WHY DIGITAL RESILIENCE MATTERS

- Phishing remains an epidemic
- Ransomware attacks are getting simpler than ever – and the threat is changing
- Hostile nation states are on the rise
- Insider attacks are increasing and changing
- Vulnerabilities hit a record high

\$4.4M RANSOM

"Colonial Pipeline confirms it paid \$4.4m ransom to hacker gang after attack"

SOLARWINDS USED IN HACK

"How Russia used SolarWinds to hack Microsoft, Intel, Pentagon, other networks"

CATASTROPHIC

"Cyber-attack on Irish health service 'catastrophic'"

\$200K PAYOUT

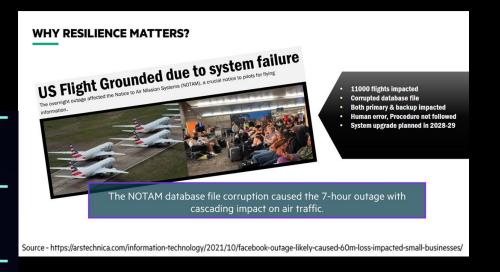
"US water filter supplier pays \$200K to settle credit leak lawsuit"

HIT BY RANSOMWARE

"US meat supply hit by suspected Russian ransomware attack on JBS, world's top meat processor"

DISRUPTED OPERATIONS

"Packaging vendor Ardagh admits cyber-attack disrupted operations"



INCREASING REGULATION - AROUND DIGITAL RESILIENCE

Good Practice now being Mandated

- Digital Operational Resilience Act EU
- Financial Services Conduct Authority, UK
- Saudi Monetary Authority
- FBI
- Investigating Latin America...
 - OECD (Organisation for Economic Co-operation and Development



DIGITAL RESILIENCE - THE ENDLESS LOOP

Shape Of Data /App

Viable Data Age

Rapid Security Assessment

In-depth Security Assessment

Compliance

Analyze Threat Profiles

Backup Restore Strategy

Tape Catalog Recovery

Human Resources

Training Rqts/Method

DR Site/Prove Synch

3rd Site(Not the DR site)

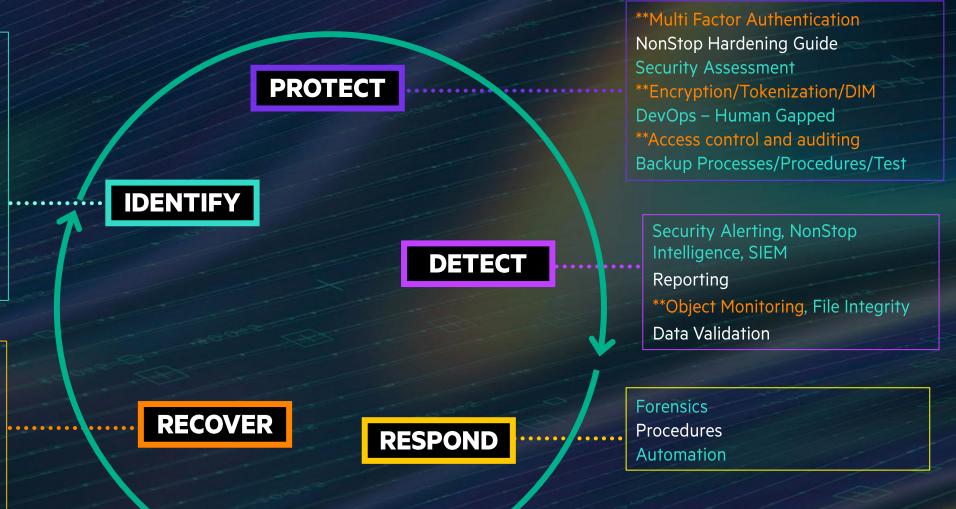
Immutable Backup

Backup Restore Strategy

3-2-1-1 Rule

Bare Metal Recovery

Test



DORA - NED INFRASTRUCTURE OPINION ONLY

All Information sourced from the "DORA FINAL TEXT" section

https://www.digital-operational-resilience-act.com/DORA_Articles.html

All the information gathered is my research/opinion and is NonStop Infrastructure focused

It is essential that you work with your own organisation to define what you have to do and how DORA affects you



DORA - EU - DORA COMPLIANCE EXPECTED 2025

- Legislative weight of DORA Administrative & (potential) Criminal penalties
- DORA is a Regulation, not a Directive, so it is binding in its entirety and directly applicable in all EU Member States.

- The Board is
- Accountable!!!!

DORA PILLARS	KEY REQUIREMENTS
ICT Risk Management	 Business continuity and Disaster Recovery plans – a must A set of key principles revolving around specific functions – identification, protection and prevention, detection, response and recovery, learning and evolving and communication Most of them are recognized by current technical standards and industry best practices, such as the NIST framework
ICT Incident Reporting	 Cybersecurity and reporting processes – a requirement Implementation of an ICT-related incident management process Classification of ICT-related incidents Reporting of major ICT-related incidents
Digital Operational Resilience Testing	 Annually tested – including remediation plans Basic Testing of ICT tools and systems – Applicable to all financial entities Advanced Testing of ICT tools, systems and processes – Only applicable to financial entities identified as significant by competent authorities
ICT Third-Party Risk Management	 ICT third-parties are subjected to EU oversight DORA introduces requirements on both financial organizations and critical technology providers Financial organizations are required to compile a standard register of third-party technology providers, the service they provide and the critical functions they underpin New criteria for risk assessment of 3rd party technology service providers
Information and Intelligence Sharing	 Encouraged to share threat information and intelligence DORA introduces guidelines on setting up information sharing arrangements between firms to exchange among themselves cyber threat information and intelligence on tactics, techniques, procedures, alerts and configuration tools in a trusted environment

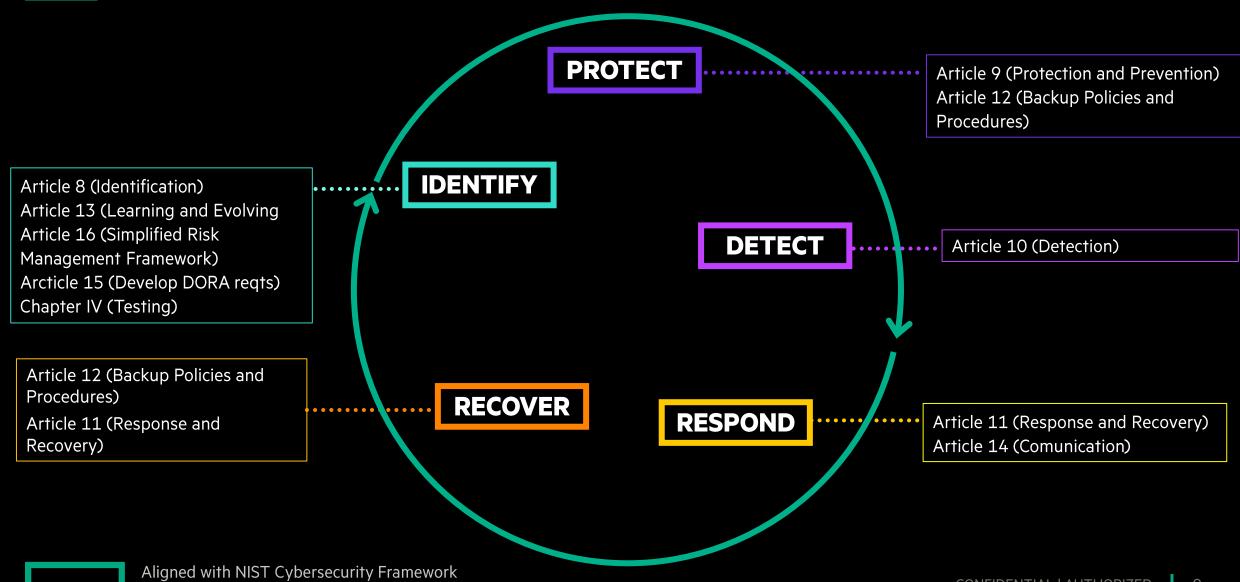
DORA STRUCTURE - "DORA FINAL TEXT"

All Information sourced from the "DORA FINAL TEXT" section

- https://www.digital-operational-resilience-act.com/DORA_Articles.html
- Chapter I General Provisions Article 3 This is a must read particularly useful is Article 3 "Definitions"
- Chapter II ICT Risk Management The focus of this presentation NonStop Infrastructure
- Chapter III ICT Related Incident Management Framework
- Chapter IV Digital Operational Resilience Testing
- Chapter V Management OF ICT Third Party Risk
- Chapter VI Information Sharing Agreements
- Chapter VII Competent Authorities
- Chapter VIII Delegated Acts
- Chapter IX Transitional And Final Provisions



DIGITAL RESILIENCY - DORA CHAPTER II RISK MANAGEMENT



FUTURE - EVOLUTION - PART OF THE IDENTIFY ENDLESS LOOP

- Current RVU L23.08 has \$SYSTEM BM Recovery DONE
- vNS Spacesaver Spare Wheel gives us options (VIO...)
- Your process review and evolution
- Ongoing HPE NonStop and Partner improvements and new functionality to improve DR support and implementation
- Continuous analysis of evolving attack profiles, working with partners and customers
- Quantum Safe Cryptography
 - PQC Post Quantum Cryptography
 - New NIST requirements harvest now decrypt later



