

Weg met Security Architectuur?

30.10.2019 | Chris van den Hooven



Weg met architectuur?

De Architectuurfunctie voor
succesvolle outsourcing
van IT-diensten bij
het Havenbedrijf Rotterdam

Resume

- Security Consultant Nixu
- CISO Fokker
- Consultant KPN
- CISO Port of Rotterdam

- Master in management and ICT,
Enterprise Architecture (2007)

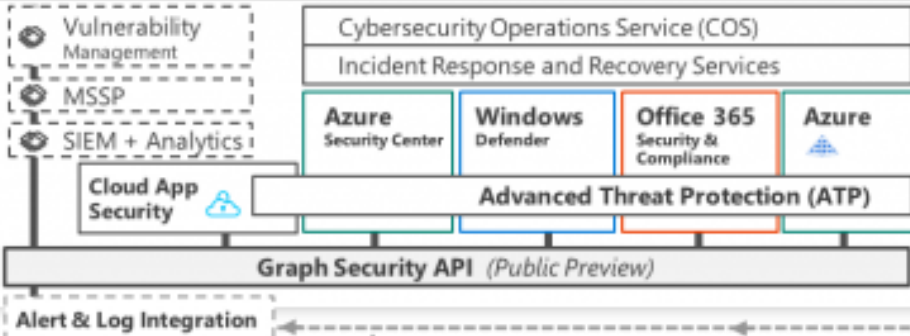


Architectuur is ...

- 'Enterprise Architecture is about **understanding** all of the different elements that go to make up the enterprise and how those elements inter-relate.' (TOGAF, 2004)
- "The structure of components, their inter-relationships, and the principles and guidelines **governing** their design and evolution over time." (TOGAF, 2019)



Security Operations Center (SOC)



Cybersecurity Reference Architecture

May 2018 – <https://aka.ms/MCRA> | [Video Recording](#) | [Strategies](#)

This is interactive!

1. Present Slide
2. Hover for Description
3. Click for more information

Roadmaps and Guidance

1. [Securing Privileged Access](#)
2. [Office 365 Security](#)
3. [Rapid Cyberattacks \(Wannacrypt/Petya\)](#)

Software as a Service

Office 365

- Secure Score
- Customer Lockbox

Dynamics 365

Information Protection

Conditional Access – Identity Perimeter Management

Cloud App Security

Azure Information Protection (AIP)

- Discover
- Classify
- Protect
- Monitor

Hold Your Own Key (HYOK)

AIP Scanner

- Office 365
- Data Loss Protection
- Data Governance
- eDiscovery

Azure ATP

Azure SQL Threat Detection

SQL Encryption & Data Masking

Azure SQL Info Protection (Preview)

Endpoint DLP

Identity & Access

Azure Active Directory

Azure AD Identity Protection
Leaked cred protection
Behavioral Analytics

Azure AD PIM

Multi-Factor Authentication

Azure AD B2B

Azure AD B2C

Hello for Business

MIM PAM

Active Directory

ESAE Admin Forest

Clients

Unmanaged & Mobile Devices

Managed Clients

System Center Configuration Manager

Windows Defender ATP

Secure Score

Threat Analytics

Windows 10 Enterprise Security

- Network protection
- Credential protection
- Exploit protection
- Reputation analysis
- Full Disk Encryption
- Attack surface reduction
- App control
- Isolation
- Antivirus
- Behavior monitoring

S Mode

Hybrid Cloud Infrastructure

On Premises Datacenter(s)

3rd party IaaS

Microsoft Azure

Azure Security Center – Cross Platform Visibility, Protection, and Threat Detection

- Configuration Hygiene
- Just in Time VM Access
- Adaptive App Control

Extranet

Intranet Servers

Windows Server 2016 Security

Window 10 + Just Enough Admin, Hyper-V Containers, Nano server, and more...

Shielded VMs

Azure Stack

Privileged Access Workstations (PAWs)

Security Appliances

- NGFW
- Edge DLP
- SSL Proxy
- IPS

Express Route

IoT and Operational Technology

Windows 10 IoT

Azure IoT Security

Azure Sphere

IoT Security Maturity Model

IoT Security Architecture

Included with Azure (VMs/etc.) Premium Security Feature

- Azure Policy
- Azure Key Vault
- Azure WAF
- Azure Antimalware
- Network Security Groups
- Backup & Site Recovery
- Disk & Storage Encryption
- Confidential Computing
- DDoS attack Mitigation + Monitor

Compliance Manager

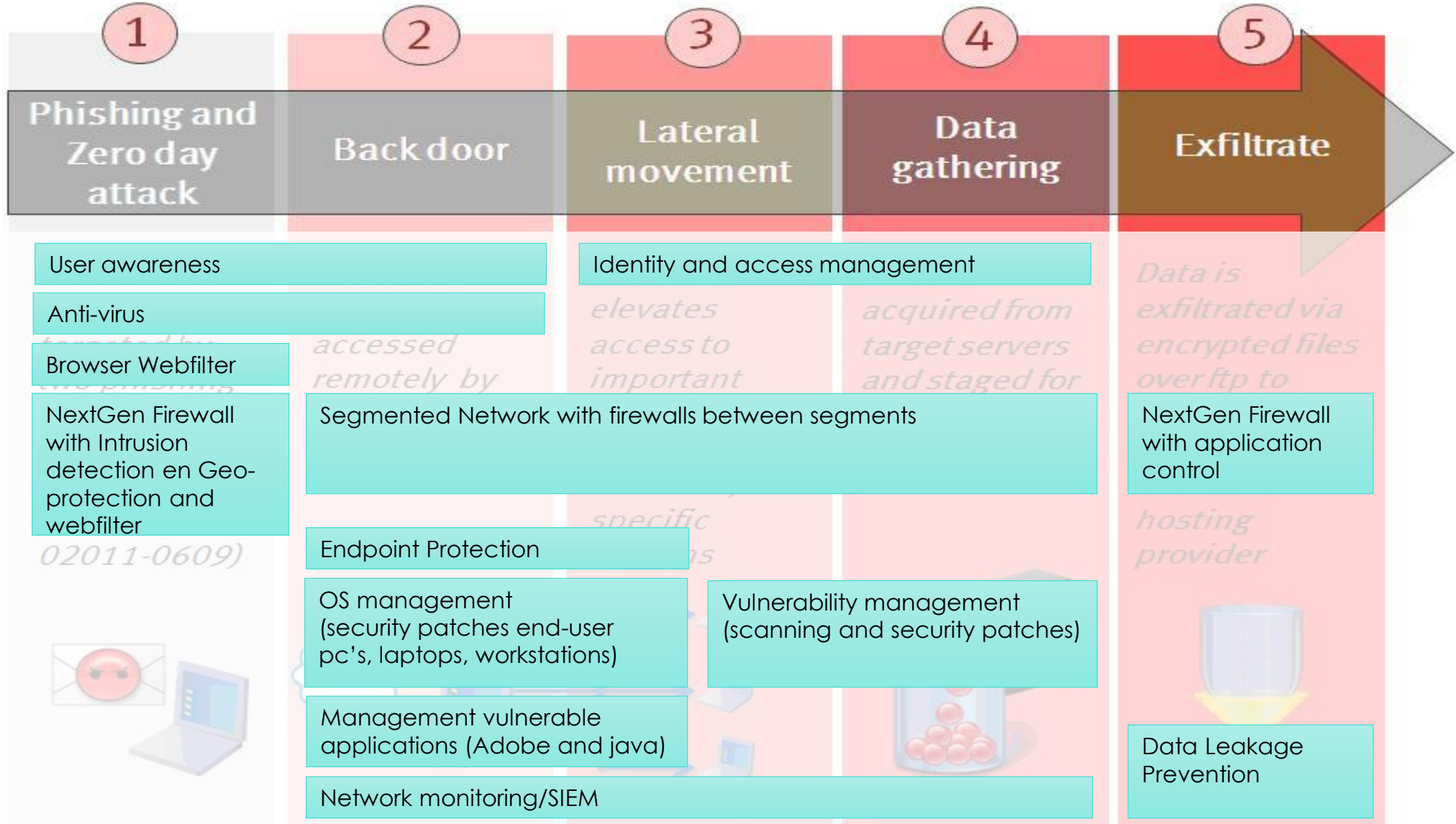
Security Development Lifecycle (SDL)

Trust Center

Intelligent Security Graph





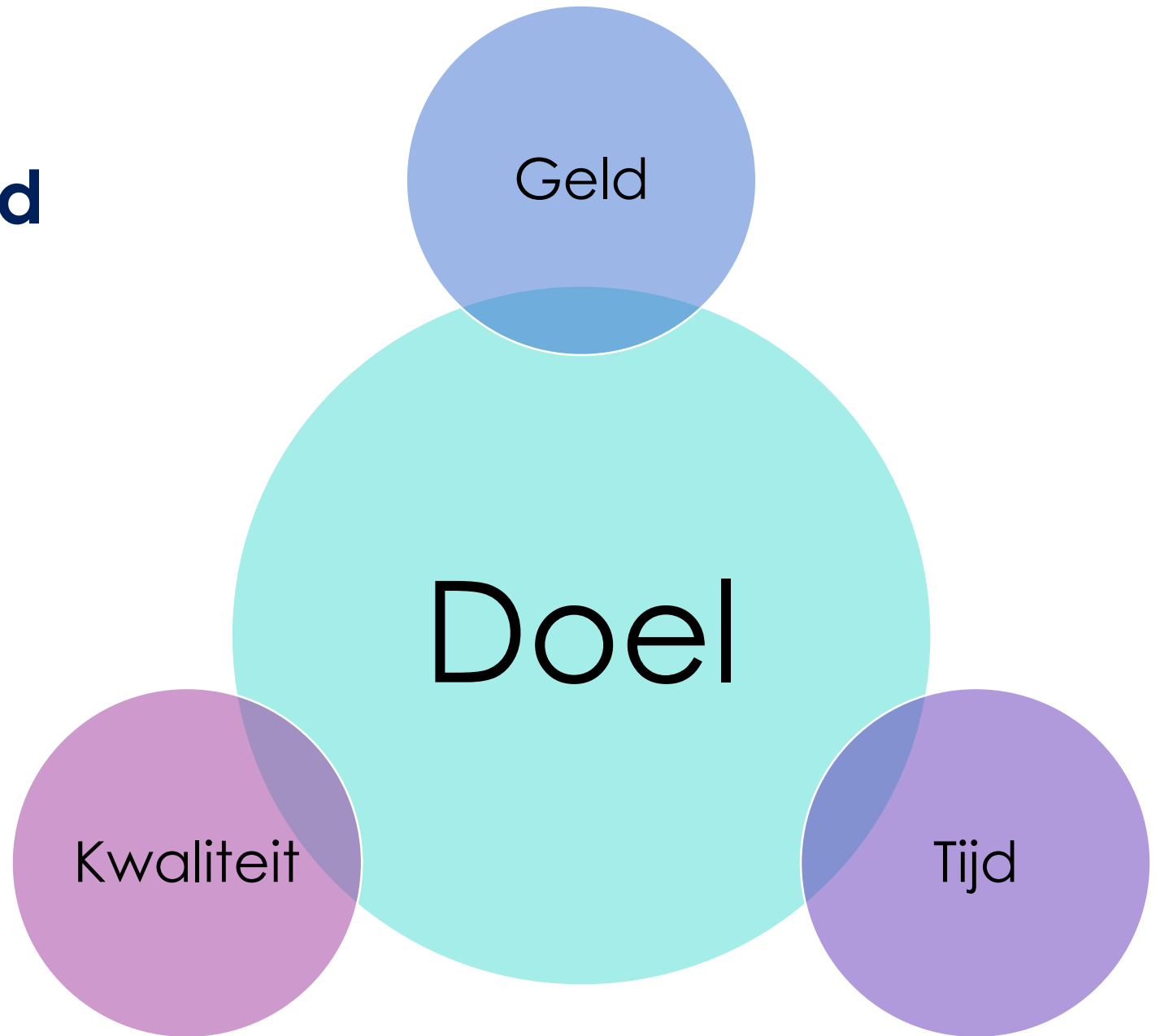




CIS Controls™

Basic 1-6
Foundational 7-16
Organizational 17-20

Delay and pray, extend and pretend





Thank you

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nixu
cybersecurity.