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 **Dell** Technologies

**Datacentermodernisatie
(Davy De Bleecker) &
IT Cybersecurity
(Anthony De Smet)**

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 **Dell** Technologies

Datacentermodernisatie (Davy De Bleecker)

Agenda

- Datacentermodernisatie
- IT Cybersecurity

Agenda

- Datacentermodernisatie
 - Hoe begin je eraan?
 - Private / Hybride / Public cloud
(verschillende oplossingen binnen private cloud)
 - Beheer
 - Monitoring
 - AI
 - Life cycle management
 - CAPEX vs OPEX

Hoe begin je eraan?



- Analyse van de business en requirements
 - Analyse van de huidige omgeving en definiëren van potentiële verbeteringen naar de toekomst toe, maar ook huidige bottlenecks etc...
 - Praten met mensen van de business en IT staff inzake gebruik, beheer en monitoring van de huidige omgeving en toekomstige omgeving
- 
- 
- 

Hoe begin je eraan?





- Je contacteert ons en doet beroep op onze professionele expertise door b.v. het laten opstellen van een roadmap
- Professionele tooling voor een diepte-analyse van uw omgeving



Hoe begin je eraan?



Start a New Project

-  Request a Collection
-  Download Collector
-  Upload Files
-  Cloud Pricing Calculator


[View More >](#)

RVTools Upload now in Live Optics




Live Optics now supports RVTools upload directly into the portal!

For more information, [Click here](#)

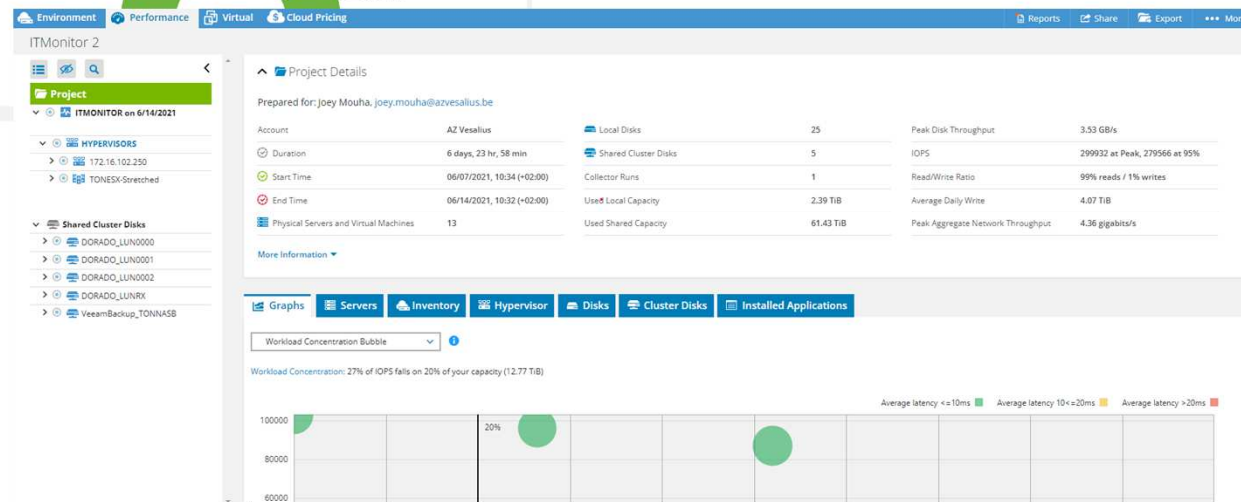
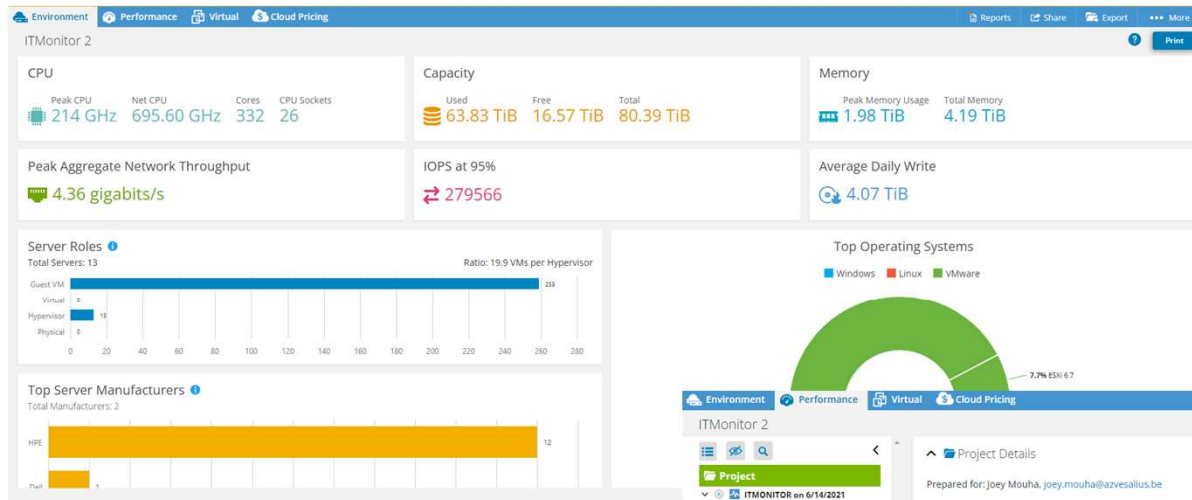
[Get Started Now!](#)



Recent Projects [All Projects >](#)

 Optical Prime JUMP-HOST2	 Optical Prime JUMP-HOST2	 Optical Prime PicanoI_HCL_v1
Dirk Brone, AZ Vesalius 04/25/2024, 15:58 (+02:00)	Dirk Brone, AZ Vesalius 04/22/2024, 16:12 (+02:00)	Sander Puttemans, Dell 04/02/2024, 11:34 (+02:00)
✓ Complete	✓ Complete	🔒 Anonymous
Project ID: 2471898	Project ID: 2466350	Project ID: 2438343

Hoe begin je eraan?



Private / Hybride / Public cloud

Private cloud

- Klassieke 3 Tier oplossing – DELLEMC Server + Switch + Storage
- Full HCI oplossing – DELLEMC VXRAIL (Vmware)
- Converged Infrastructure (CI oplossing) – DELLEMC
>> VXRAIL Dyn Nodes + Storage (DELLEMC Powerstore)
- Hybride oplossing – DELLEMC Powerflex – Software Defined Infrastructure (Multi hypervisor)

Private cloud – HCI VXRAIL

- Full HCI oplossing – DELL EMC VXRAIL (Vmware)

Benefits of HCI adoption

Agility



Public cloud speed, efficiency, and economics within the data center

Scalability



Start small and easily scale up or scale out while maintaining performance levels


Simplicity







Simplify operations with software-driven automation and lifecycle management

Private cloud – HCI VXRAIL

VxRail
The ONLY jointly engineered HCI system with VMware, for VMware, to enhance VMware



 9200+ Customers	 \$2B Annual Revenue	 41%* Growth Rate	 115K+ Nodes
--	--	---	--

EDGE **CORE** **CLOUD**



VDI



Video
Analysis



SAP HANA



AI/ML



Kubernetes &
DTCP

*Source: IDC Quarterly Converged Tracker, Q2 2020. Hyperconverged Systems product category

Private cloud – HCI VXRAIL

What is inside VxRail?



VMware HCI Software

VxRail HCI System Software

Data Protection Options

- Choice of vSAN
- VMware Cloud Foundation
- vCenter Server
- vRealize Suite Ready
- vSphere Ready*

- VxRail Manager
- Cloud-based management
- RESTful APIs
- Automation and orchestration services
- Ecosystem connectors

- RecoverPoint for VMs
- VMware vSphere Replication

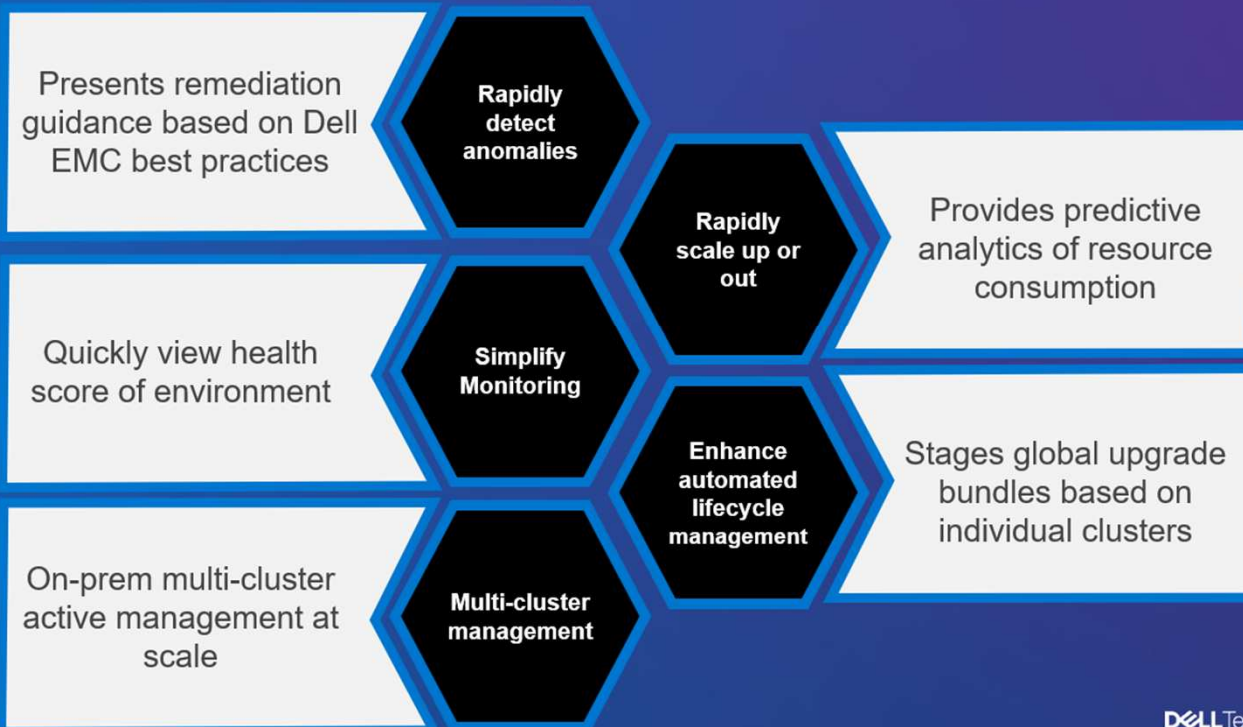
*Compatible with a broad range of customer-supplied vSphere licenses

Private cloud – HCI VXRAIL



Private cloud – HCI VXRAIL

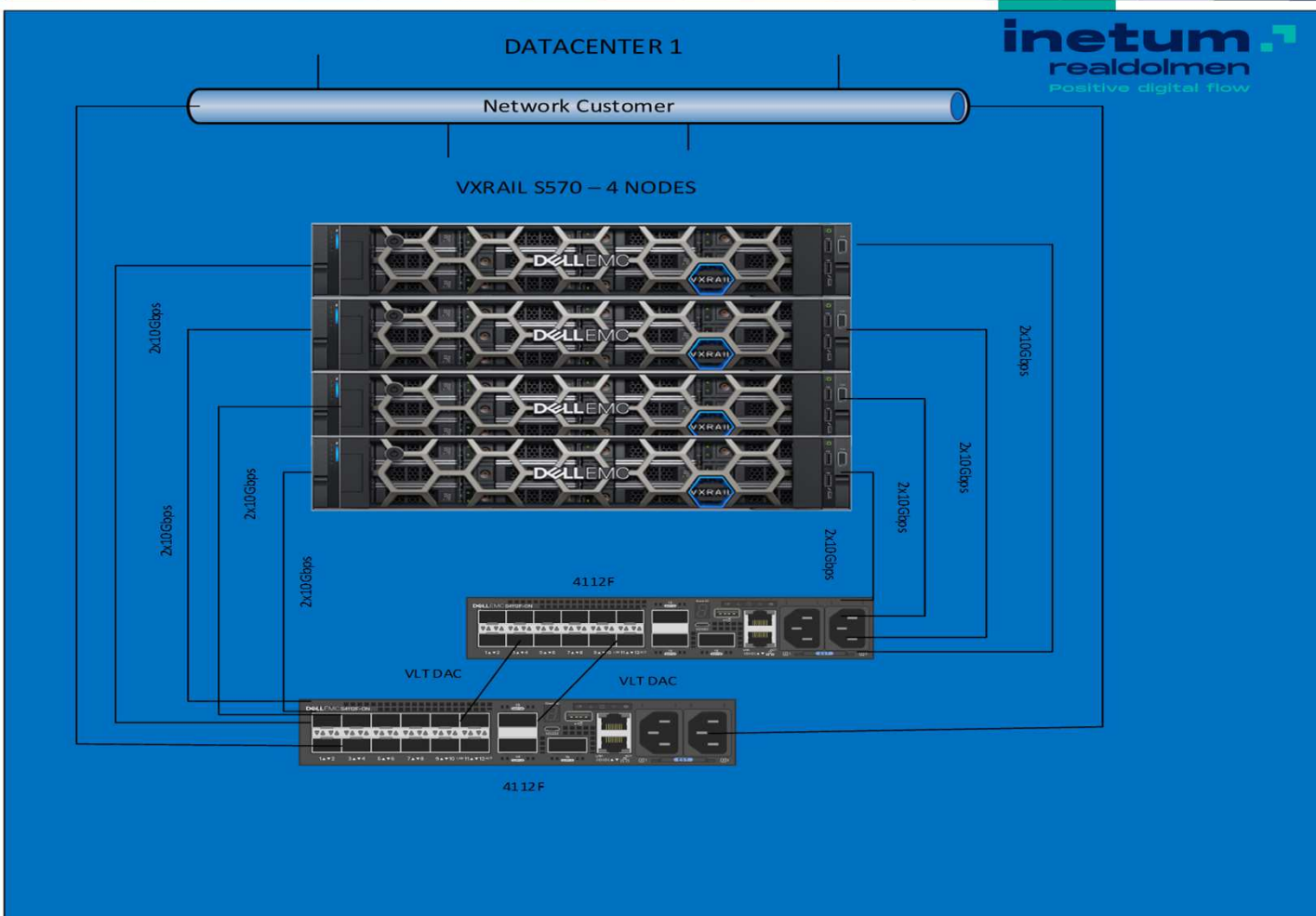
SaaS multi-cluster management benefits



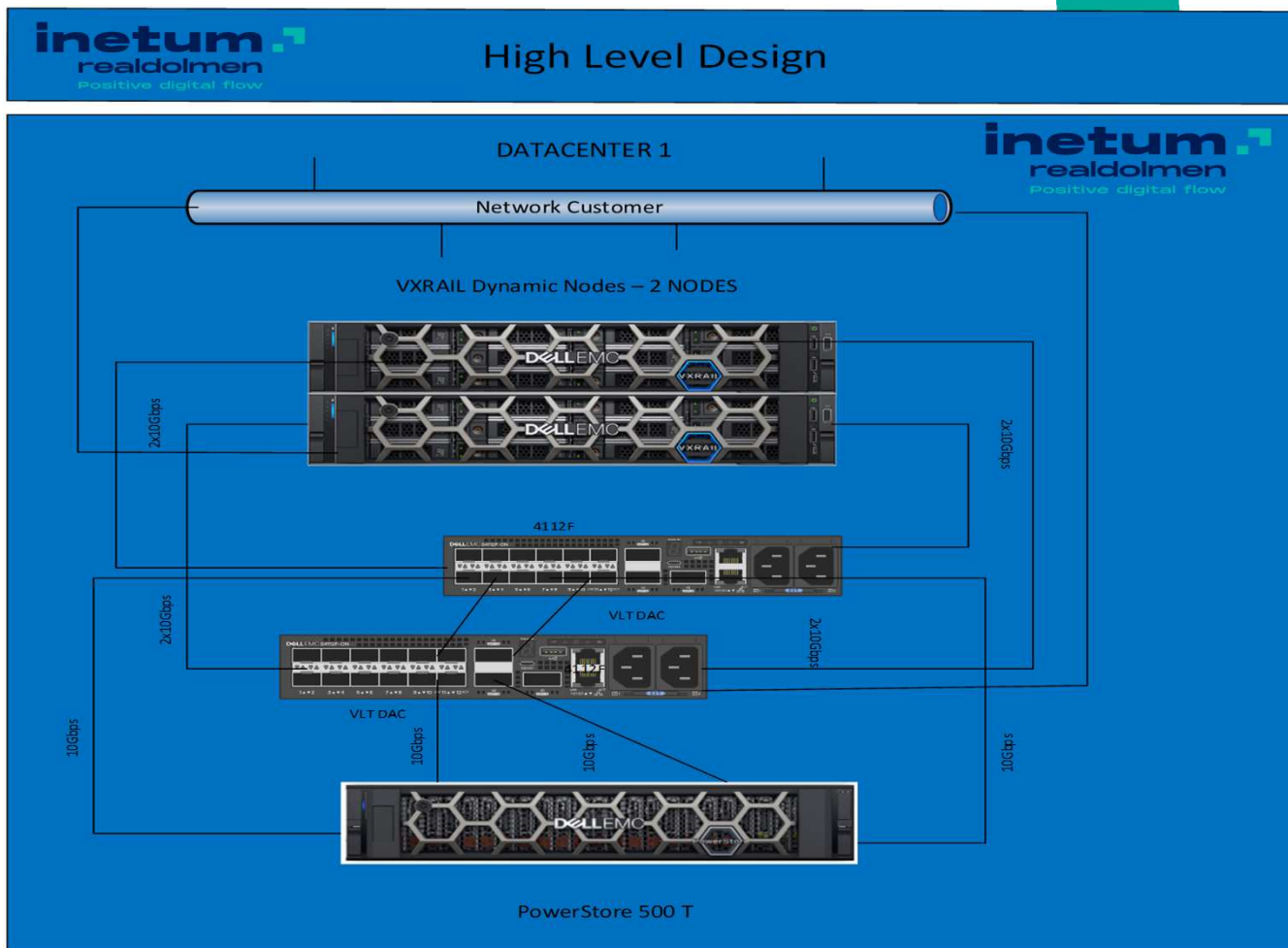
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High Level Design



Private cloud – DYN NODES



Private cloud - POWERFLEX

- Hybride oplossing – DELLEMC Powerflex (Software Defined Infrastructure)

```

mirror_mod = modifier obj
mirror object to mirror
mirror_mod.mirror_object =
operation == "MIRROR ?":
mirror_mod.use_x = True
mirror_mod.use_y = False
mirror_mod.use_z = False
operation == "MIRROR ?":
mirror_mod.use_x = False
mirror_mod.use_y = True
mirror_mod.use_z = False
operation == "MIRROR ?":
mirror_mod.use_x = False
mirror_mod.use_y = True
mirror_mod.use_z = False
operation == "MIRROR ?":
mirror_mod.use_x = True
mirror_mod.use_y = False
mirror_mod.use_z = True
selection at the end -add
obj.select=1
for obj.select=1
context.scene.objects.active
("Selected" + str(modifier
mirror_obj.select = 0
hpy.context.selected_obj
data.objects[one.name].sel
int("please select exactly
OPERATOR CLASSES

```

Why PowerFlex is the solution...

IT Operations

- Needs to operate heterogeneous environments with multiple hypervisors, container platforms and bare-metal workloads
- Needs flexible scalability with linear performance growth over time
- Seeking consistent operations across infrastructure layers

Business Vision

- Responding to fast growth and shifting projects
- Needs to support next generation and legacy workloads in the same environment
- Evolving ecosystems but can tolerate no downtime

Workloads

- Running mission critical databases with unpredictable performance and varying scale requirements
- Has workloads requiring varying scale of compute and storage
- Wants to seamlessly integrate with and automate 3rd party workloads and operational workflows
- Modernizing application architectures with cloud-native containerized apps

“We needed a platform that was performant, could scale quickly and had very little management overhead. That’s precisely what PowerFlex gives us.”

BURAK HOBAN, PRINCIPAL PLATFORM ARCHITECT, IAG

Source: Customer Reference: IAG – IT transformation drives business value through data innovation

DELLTechnologies

Private cloud - POWERFLEX

- Hybride oplossing – DELL EMC Powerflex

PowerFlex
Unbounded Software-defined infrastructure

MODERNIZE WITHOUT LIMITS AUTOMATE FOR AGILITY OPTIMIZE YOUR OUTCOMES

-  Heterogenous environments
-  Unified file and block services
-  Flexible scaling

-  LCM automation
-  Rich APIs & tools
-  AIOps with CloudIQ

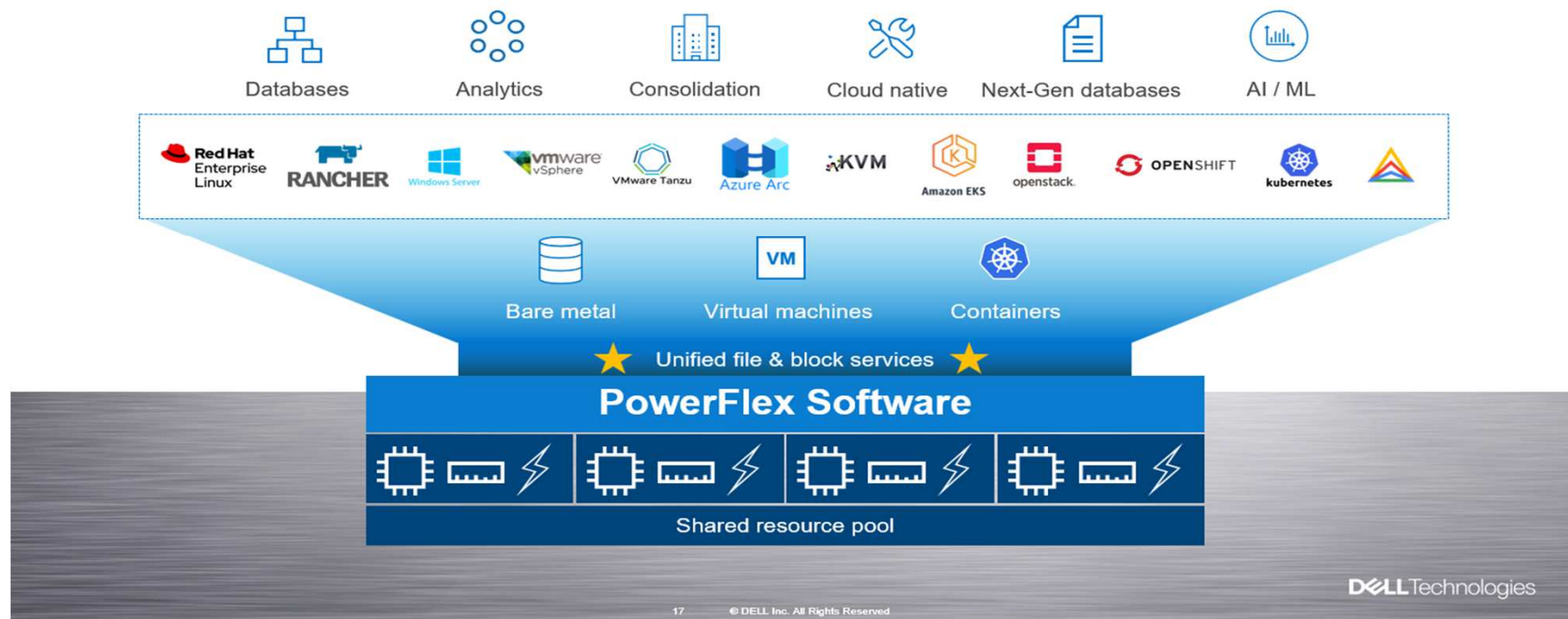
-  Massive performance
-  Unmatched linear scalability
-  Extreme resilience

Private cloud - POWERFLEX

- Hybride oplossing – DELLEMC Powerflex (Software Defined Infrastructure)

Unconstrained consolidation

A strong **foundation** for your modernization journey

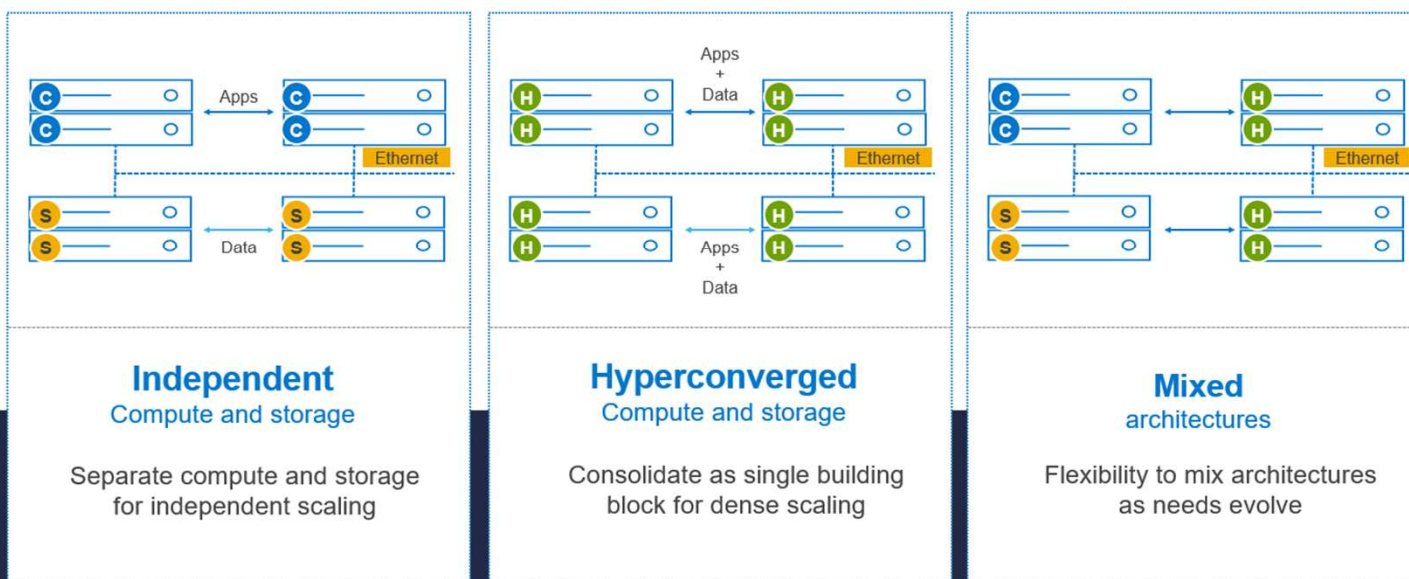


Private cloud - POWERFLEX

- Hybride oplossing – DELLEMC Powerflex

Dynamic infrastructure

Evolve your data center as you wish



Independent Compute and storage

Separate compute and storage
for independent scaling

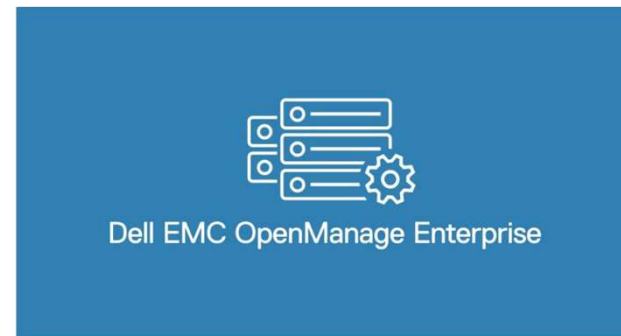
Hyperconverged Compute and storage

Consolidate as single building
block for dense scaling

Mixed architectures

Flexibility to mix architectures
as needs evolve

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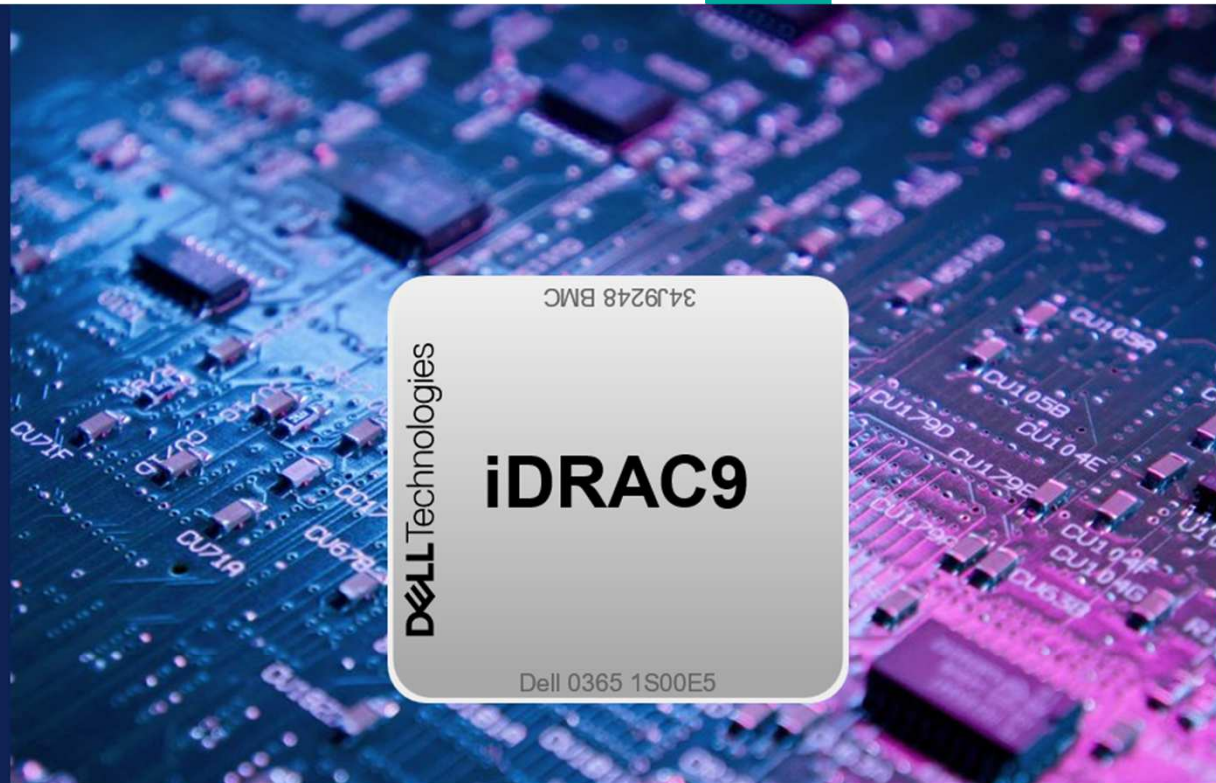


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Introduction to iDRAC

iDRAC is the integrated Dell Remote Access Controller

- iDRAC is a “server within the server” that resides on the system board, and includes
 - Processor
 - Memory
 - Graphics
 - Network access
- iDRAC is both hardware and software that provides extensive features compared to a basic baseboard management controller



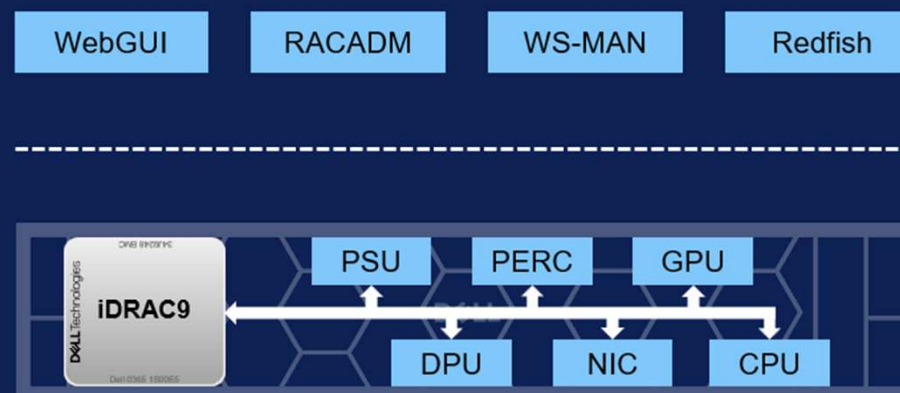
ITPro.

“If you want classy remote management features then look no further: Dell's iDRAC9 is simply the best.”

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Agent-free management architecture

- **Friction-less** out-of-band management without the complexities and dependencies of using OS-based agents
- Provision **bare-metal** servers before the OS and applications are installed or running
- **Consistent management** no matter what Server model, OS or Hypervisor you use
- **Automate** using scripting Redfish APIs, through Dell's consoles like OME or our integrations to 3rd party consoles



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One To One Remote Management

Agent Free architecture
HTML5e interface

Full Remote Control

- Server | OS Console access
- Power Off | On

Monitor Health

- SNMPv3 | Syslog | SSE | Email

Deployment

- System Configuration Profile
- Zero touch provisioning

The screenshot displays the iDRAC Enterprise dashboard with the following sections:

- Health Information:** A red banner indicates "SYSTEM HAS CRITICAL ISSUES". Below, "System Health" is marked as "Critical" (with sub-items: Miscellaneous, Cooling) and "Storage Health" is marked as "Healthy".
- System Information:** A table listing system details:

Power State	ON
Model	PowerEdge R6325
Host name	SP0-DEU011
Operating System	Windows Server 2022
Operating System Version	10.0
Service Tag	xxxxxx
BIOS Version	2.8.4
iDRAC Firmware Version	6.10.60.00
IP Address(es)	10.0.41.191
iDRAC MAC Address	f4:02:70:b3:e2:08
License	Enterprise Edit
- Recent Logs:** A table of system events:

Severity	Description	Date and Time
Critical	Fan redundancy is lost.	Sun 25 Jun 2023 11:03:14
Warning	Fan 4A RPM is less than the lower warning threshold	Sun 25 Jun 2023 11:03:11
Critical	Fan 4A RPM is less than the lower critical threshold	Sun 25 Jun 2023 11:03:11
Info	The fans are redundant.	Sun 25 Jun 2023 11:02:39
Warning	Fan 4A RPM is less than the lower warning threshold	Sun 25 Jun 2023 11:02:36
Info	Fan 4A RPM is within range.	Sun 25 Jun 2023 11:02:36
Critical	Fan redundancy is lost.	Thu 22 Jun 2023 09:18:54
Warning	Fan 4A RPM is less than the lower warning threshold	Thu 22 Jun 2023 09:18:51
Critical	Fan 4A RPM is less than the lower critical threshold	Thu 22 Jun 2023 09:18:51
Info	The fans are redundant.	Thu 22 Jun 2023 06:53:59
- Task Summary:** Shows 0 Pending Jobs, 0 In-Progress Jobs, and 111 Completed Jobs (with sub-items: With Errors, Failed).
- Virtual Console:** A window showing a virtual desktop environment with a clock reading 1:02 on Friday, June 30.

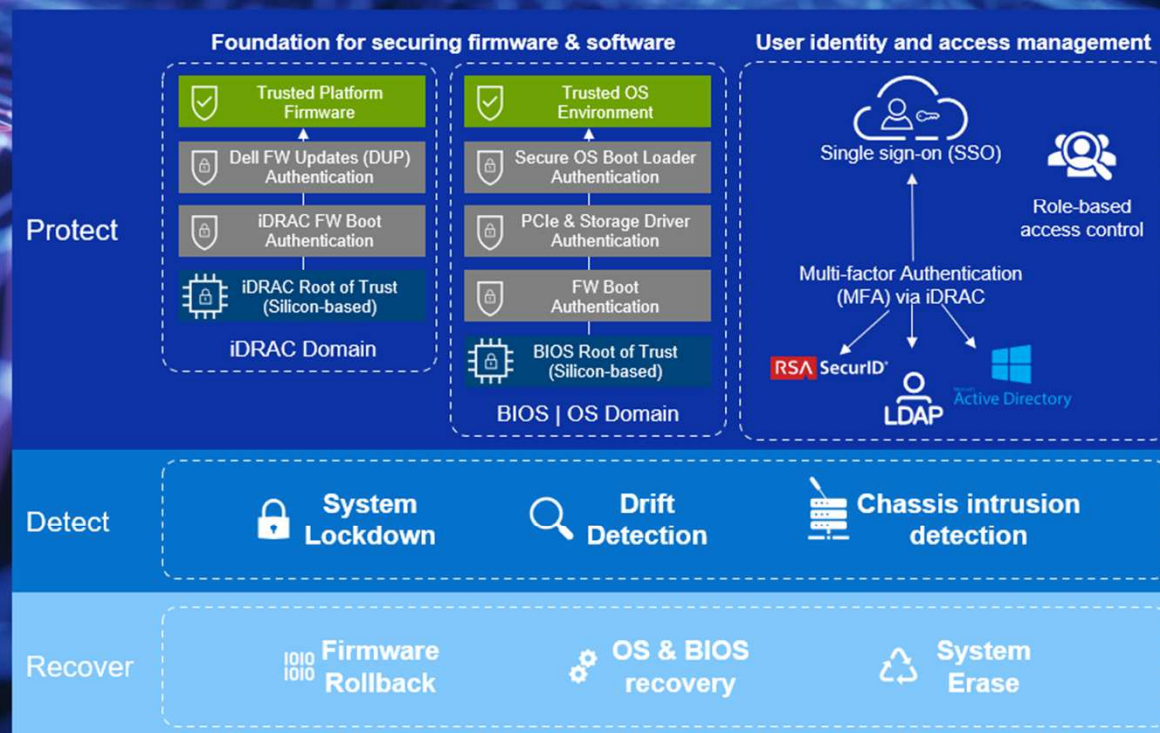
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Secure By Design

Secure server operations anchored with

- Silicon-based platform Root of Trust
- Multi-factor authentication (MFA)

Meets and exceeds standards in NIST SP800-193 Framework



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- IDRAC



Automating IT management

Dell EMC offers comprehensive automation management for reducing OPEX and increasing uptime and overall efficiency

Comprehensive suite of tools to automate IT infrastructure "your way"



Management made simple

Simple but powerful tools for managing your Dell EMC servers

Built-in tools that streamline support engagements

Innovative "at-the-box" management features



Security by default

Dell EMC servers offer robust security defenses to thwart the next generation of malicious attacks

Security is designed deep into the hardware and firmware architecture for optimal protection

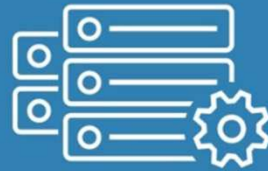


Smarter Infrastructure Management

Dell EMC offers a next generation one-many console to manage your IT and server infrastructure

Embedded intelligence which is "infrastructure-aware" to optimize troubleshooting and deployment

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Dell EMC OpenManage Enterprise

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OpenManage Enterprise

A simple-to-use, one-to-many systems management console.

- Comprehensive lifecycle management for PowerEdge servers
- Deploy as a secure virtual appliance
- One to many intelligent automation with user-defined policy, template, and baseline
- Comprehensive RESTful API enables customizable automation and solution integration
- Up to 8,000 devices per instance Datacenter / Multisite-scale
- FlexSelect plug-in architecture for new functionality



SIMPLIFY



Robust, intuitive, management capabilities, regardless of form-factor

UNIFY



One-to-many management from a single console: built for scale

AUTOMATE



Automated IT processes for greater efficiency

SECURE



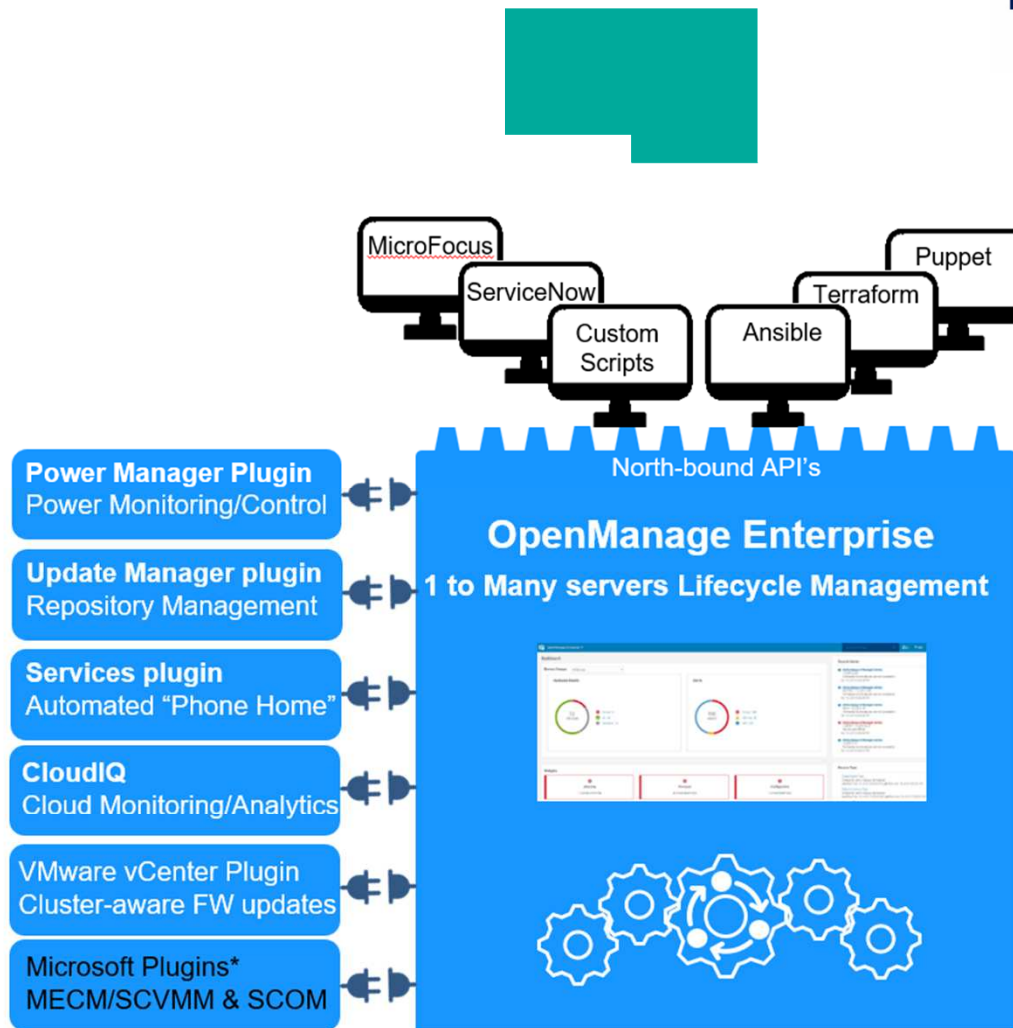
Design for security throughout the infrastructure lifecycle

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OpenManage Enterprise

FlexSelect Plugin Architecture

- Modular software design allows for easy development cycles to add functionality with new plugin modules.
- Single console for all management functions.
- Fully integrated plugin module upgrade process within OME console.



* System Center Available Q422

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PowerEdge Management Portfolio

iDRAC

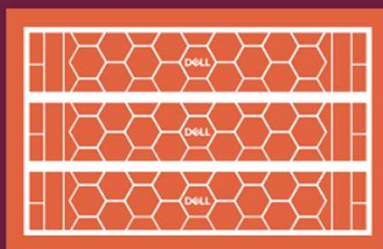
One-to-one out-of-band Baseboard Management Controller on each PowerEdge server.

OpenManage Enterprise

One-to-many on-premises systems management and automation. Aggregator for CloudIQ data

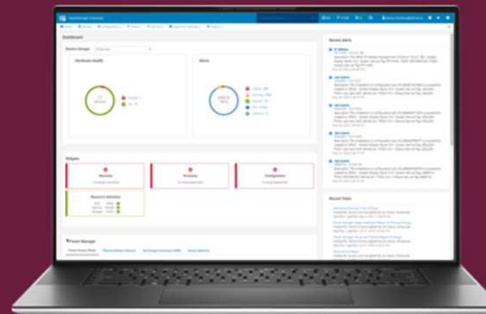
CloudIQ

A single pain of glass for providing AIOps analytics, recommendations, Cybersecurity policies and management for globally connected Dell infrastructure.



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Product Overview



SIMPLIFY



Robust, intuitive, management capabilities, regardless of form-factor

UNIFY



One-to-many management from a single console that's built for scale

AUTOMATE



Automated IT processes for greater efficiency

SECURE



Designed for security throughout the infrastructure lifecycle

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Product Overview

Full lifecycle management
of Dell PowerEdge servers

Rack Servers



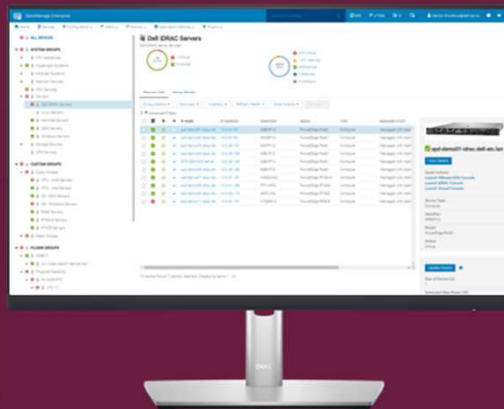
Modular Servers



Edge Servers



Tower Servers



OpenManage Enterprise
Up to 8,000 devices

Monitor



Compute



Storage



Networking



3rd party infrastructure

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Full lifecycle management



Discover

Deploy

Update

Monitor

Maintain

Possible System Management Orchestration Time Saving

Create deployment job to push server configuration and install OS, for 250 servers
in **51 seconds**
/ **14 steps**¹

Initiate remediation of firmware non-compliance for 1000 servers
in **32 seconds**
and **4 steps**¹

Initiate remediation of configuration drift for 250 servers
in **20 seconds**
and **3 steps**¹

¹Dell Legal ID#G20000065. Source Independent third-party testing [PT_testing](#)

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Simplify



Robust, intuitive,
management capabilities,
regardless of form-factor



Detailed diagnostic logging information

Quick troubleshoot with detail log information for remediation



Modern Interface with Enhanced Search

Modern, HTML5 interface that requires little or no training with “Elastic Search Technology”



Template-driven Server Deployment

Simple menu driven method for creating, editing and deploying server, Chassis and VLAN templates



Customized Report Generation

Build, design and schedule customized reports that align with your business processes



Mobile Device Integration

Anytime, anywhere notification of OME events, view to sever information & access iDRAC on IOS or Android.

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Clone a known configuration or import from a file

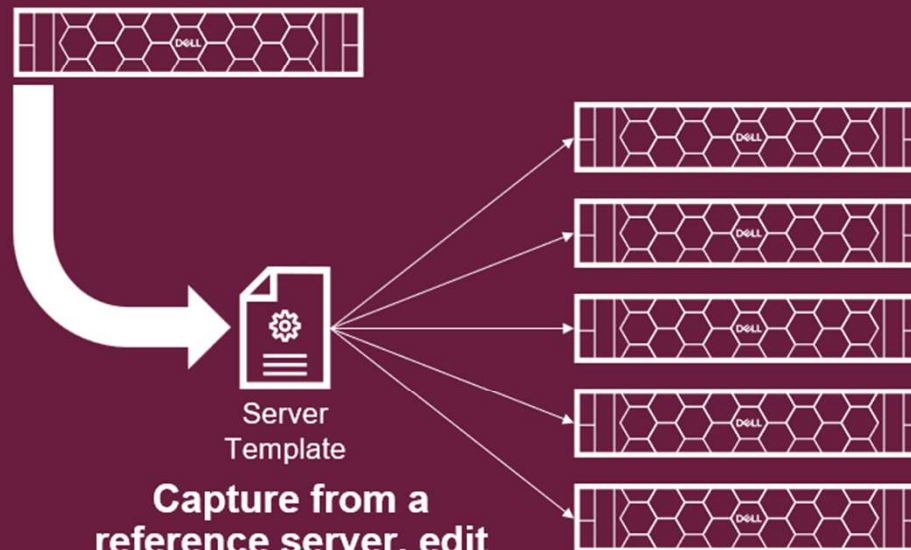


Deploy templates to one or more bare-metal servers with a few mouse clicks.

Clone a reference server or chassis to a template with minimum effort.

This includes:

- BIOS
- RAID
- iDRAC
- NIC
- Virtual I/O identities
 - Virtual MAC Address
 - WWN, WWPN
 - iSCSI Name
- Network
 - VLAN
 - Type (QoS)



Capture from a reference server, edit & deploy to many

Map a bootable ISO to iDRAC to deploy an OS.

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Unify



One-to-many management
from a single console



Extended management capabilities

Integrates data center management tasks into a single interface



Increased Scalability

Discovery and inventory for up to 8000 devices



Complete PowerEdge Integration

Manage PowerEdge Rack, Modular, Edge and Tower Servers

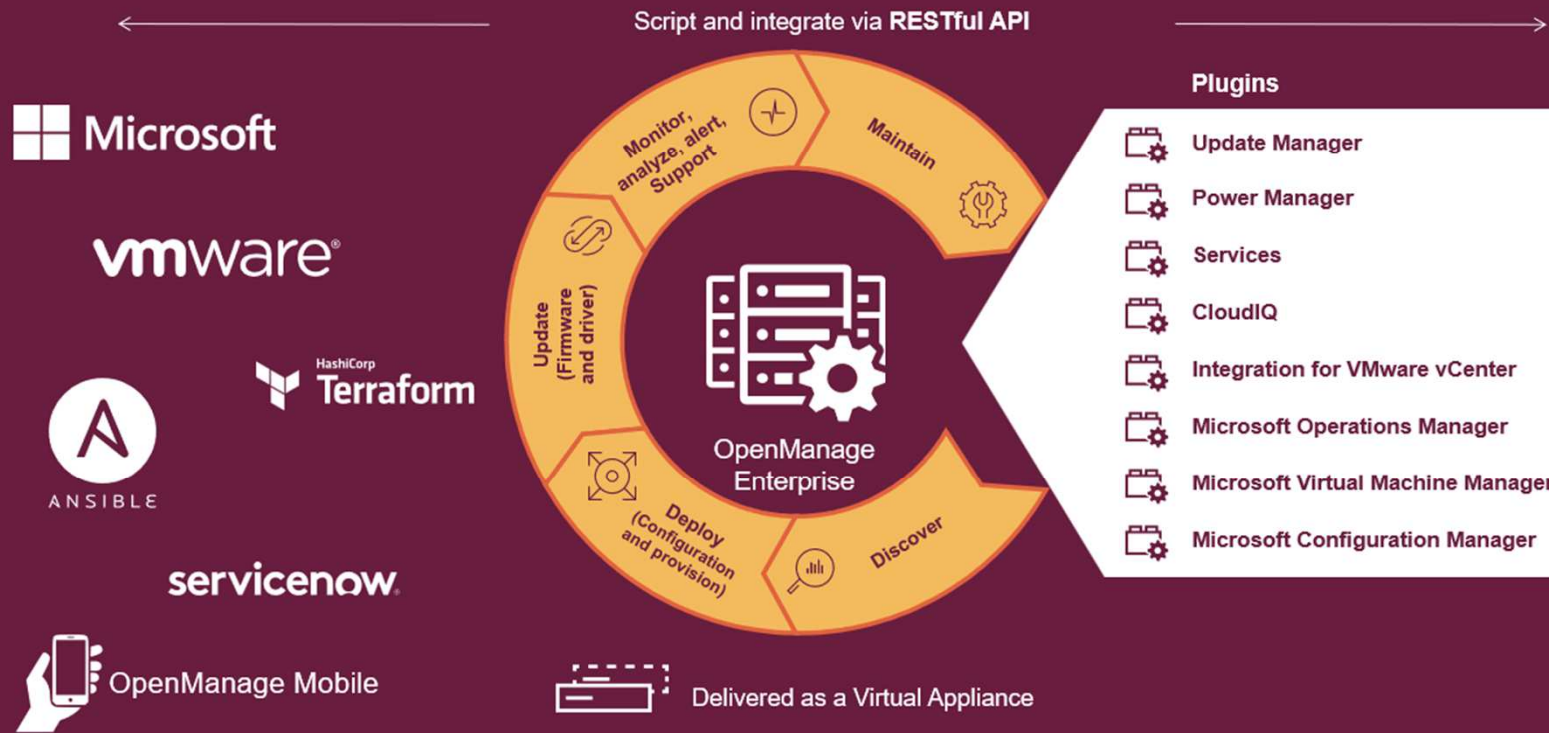


Seamless Third-party Management

One unified console for almost any environment

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Extending OME with Plugins and Integrations



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Automate



Automated IT processes for greater efficiency



Automatic templates deployment

Reduced deployment time and effort with templates automatically applied based on service tags or node ID



Streamlined remote management

Create a series of remote commands in a single batch, run immediately or schedule for later



Dynamic update repository refresh

Create or schedule searches for new available updates on Dell.com or through Update Manager Plugin



Built for Automation

Policy driven management engine enables automation of management tasks from deployment to retirement



ProSupport Phone Home Integration

Automated detection of support issues and case creation managed centrally

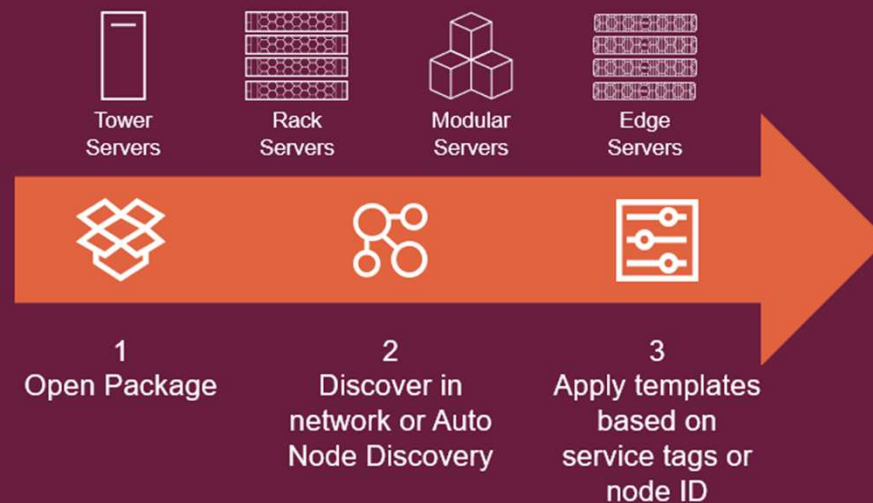
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Dell OpenManage Auto Deploy



Decrease deployment time while preventing costly errors and downtime

- Service tag or node ID is a unique identifier to each device
- Once discovered in network, OpenManage Enterprise can automatically apply templates to devices for deployment



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Secure



Design for security throughout the infrastructure lifecycle



Delivered as a Secure Virtual Appliance

High security standard throughout appliance testing, development, deployment, and user experience



Full-lifecycle Configuration Management

Consolidated view of inventory and configuration baselines to maintain compliance



Firmware Lifecycle Control

Monitor individual servers or groups of servers for compliance and receive notification of deviations



Alert Processing

Flexible event handling to enable automation based on event policy in addition to notifications by email, syslog, and SNMP forward



Secure further with automatic password rotation

Manage iDRACs with internally generated & rotated passwords; or access passwords via CyberArk Credential Provider

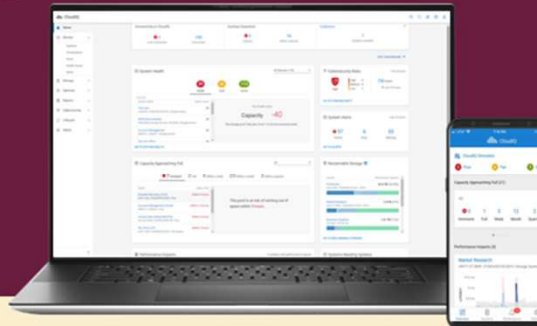


CloudIQ


Monitoring - AI

What is CloudIQ?

One portal for monitoring, analytics & alerts




 Storage

 SAN

 Data Protection

 HCI/CI

 Servers

 IP Networks



INTEGRATED



CAPEX vs OPEX

- DELLEMC APEX



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POLAND | ROMANIA | MOROCCO | TUNISIA | SENEGAL | CÔTE D'IVOIRE | ANGOLA |
CAMEROON | USA | BRAZIL | COLOMBIA | MEXICO | RP OF PANAMA | PERU | CHILI |
COSTA RICA | DOMINICAN REPUBLIC | ARGENTINA | SINGAPORE | UAE

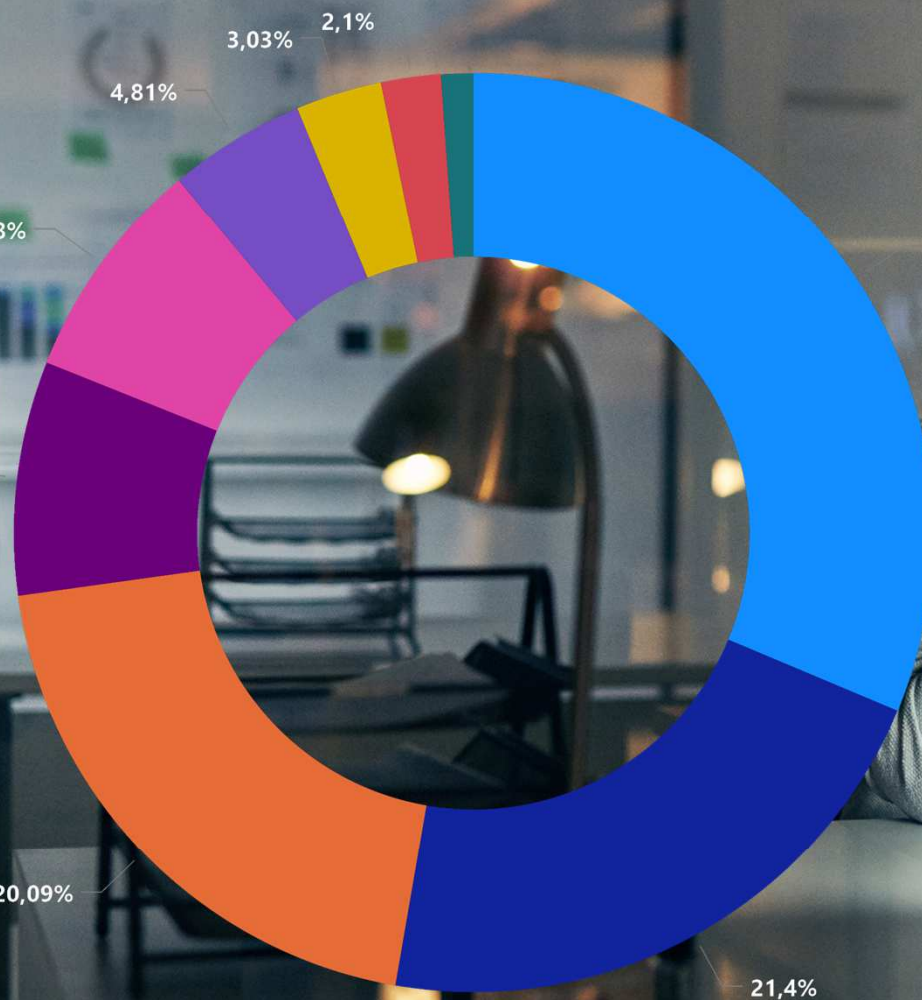




IT Cybersecurity (Anthony De Smet)

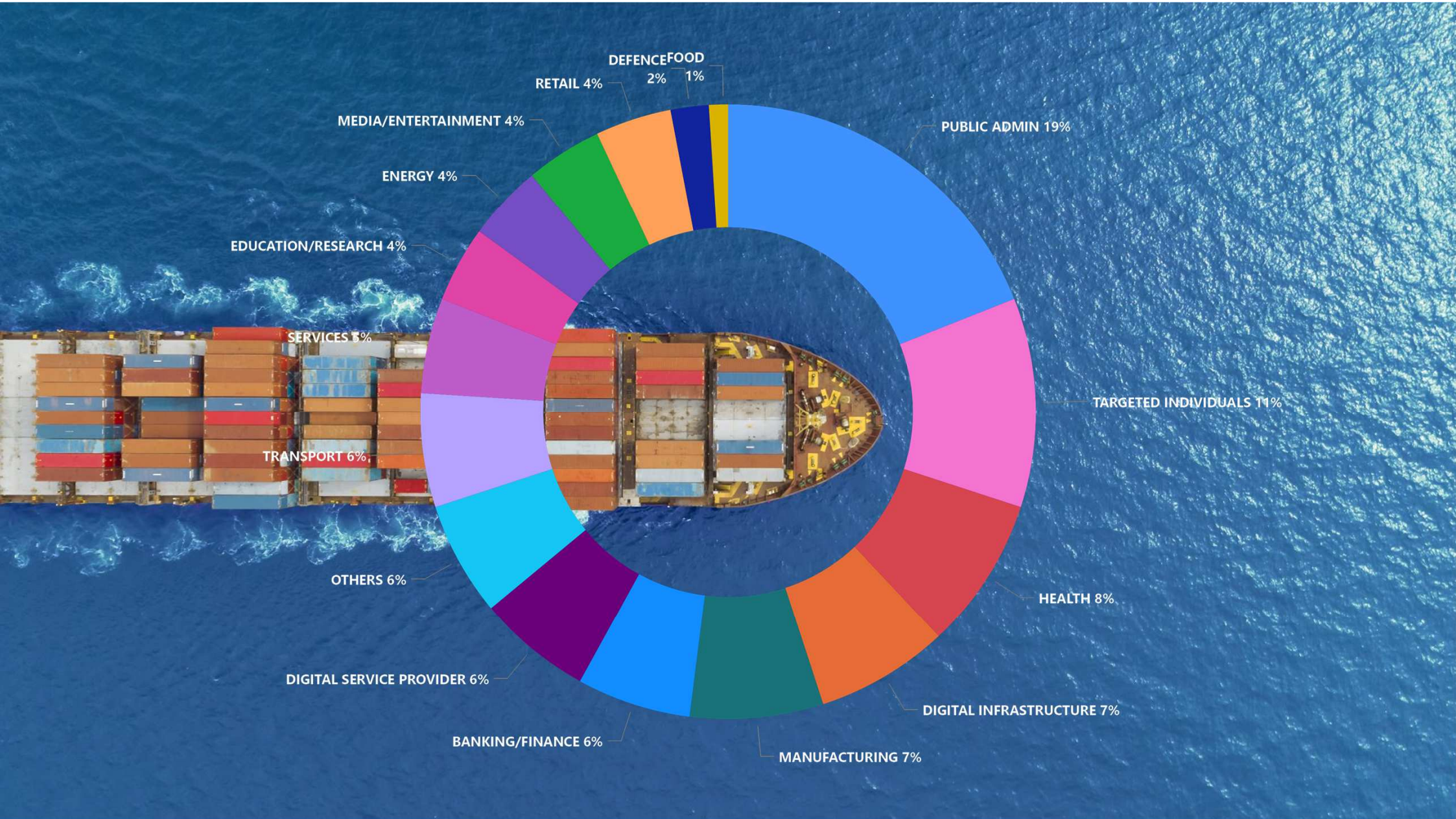
State of Cybersecurity 2024





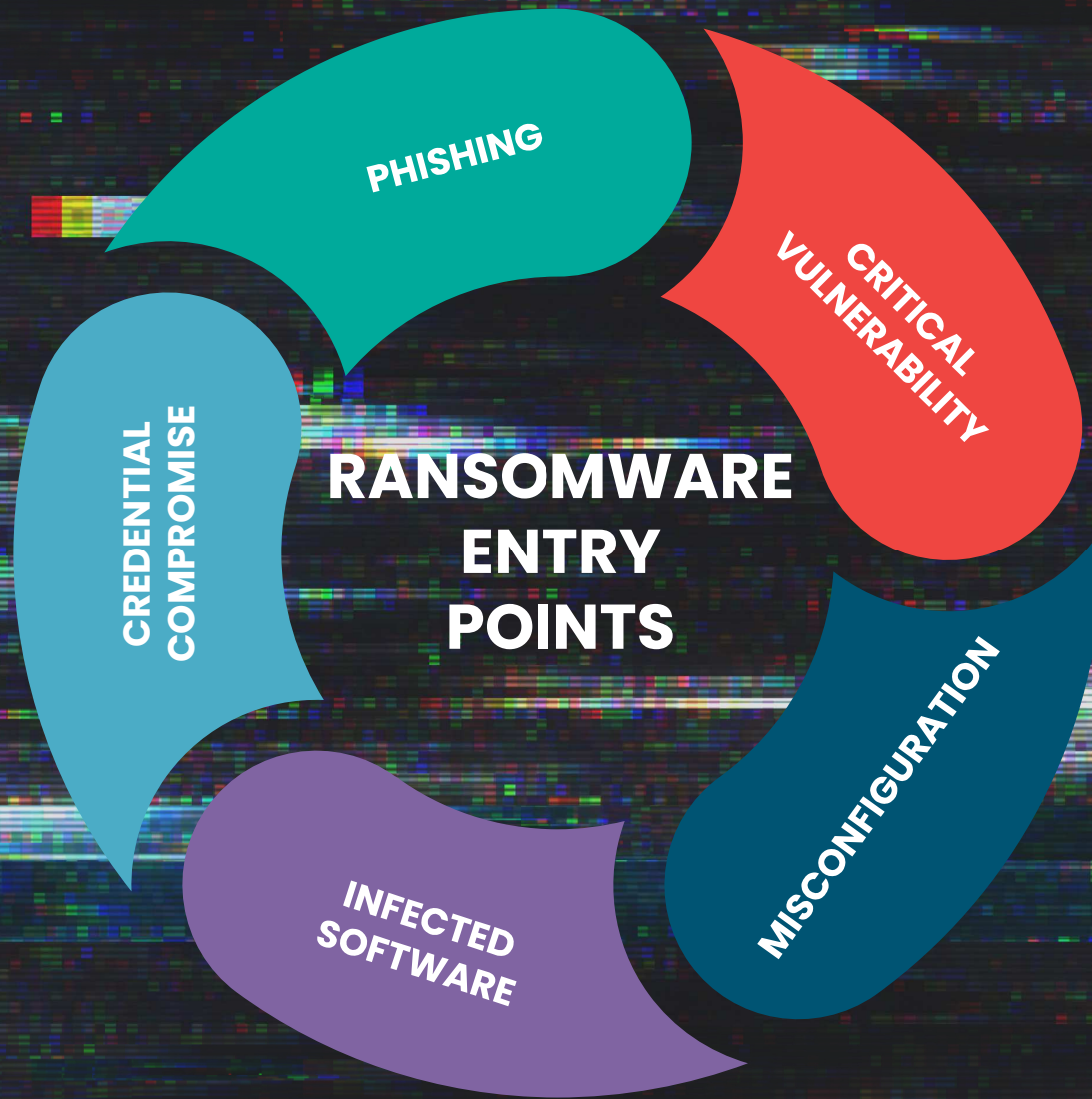
- PRIME THREATS
- RANSOMWARE
 - DDoS
 - DATA
 - MALWARE
 - SOCIAL ENGINEERING
 - INFORMATION MANIPULATION
 - WEB THREATS
 - SUPPLY CHAIN ATTACK
 - ZERO DAY



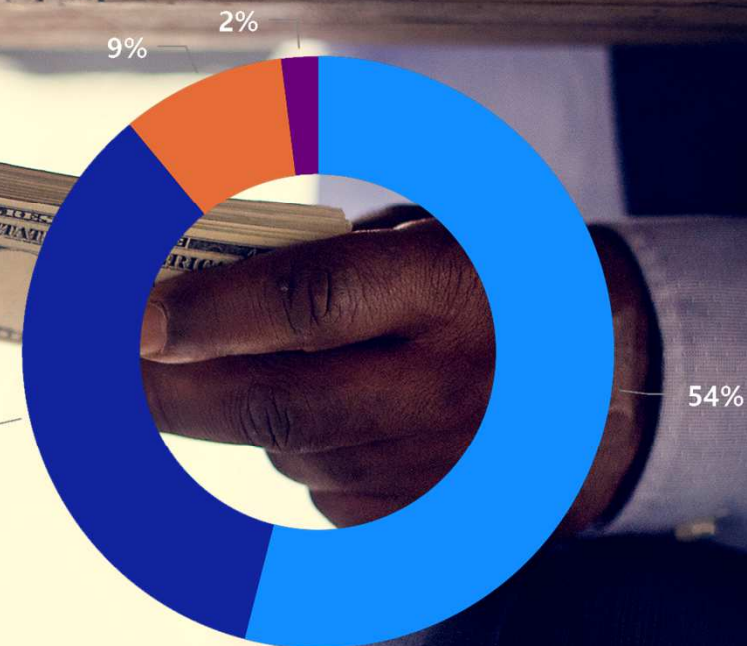


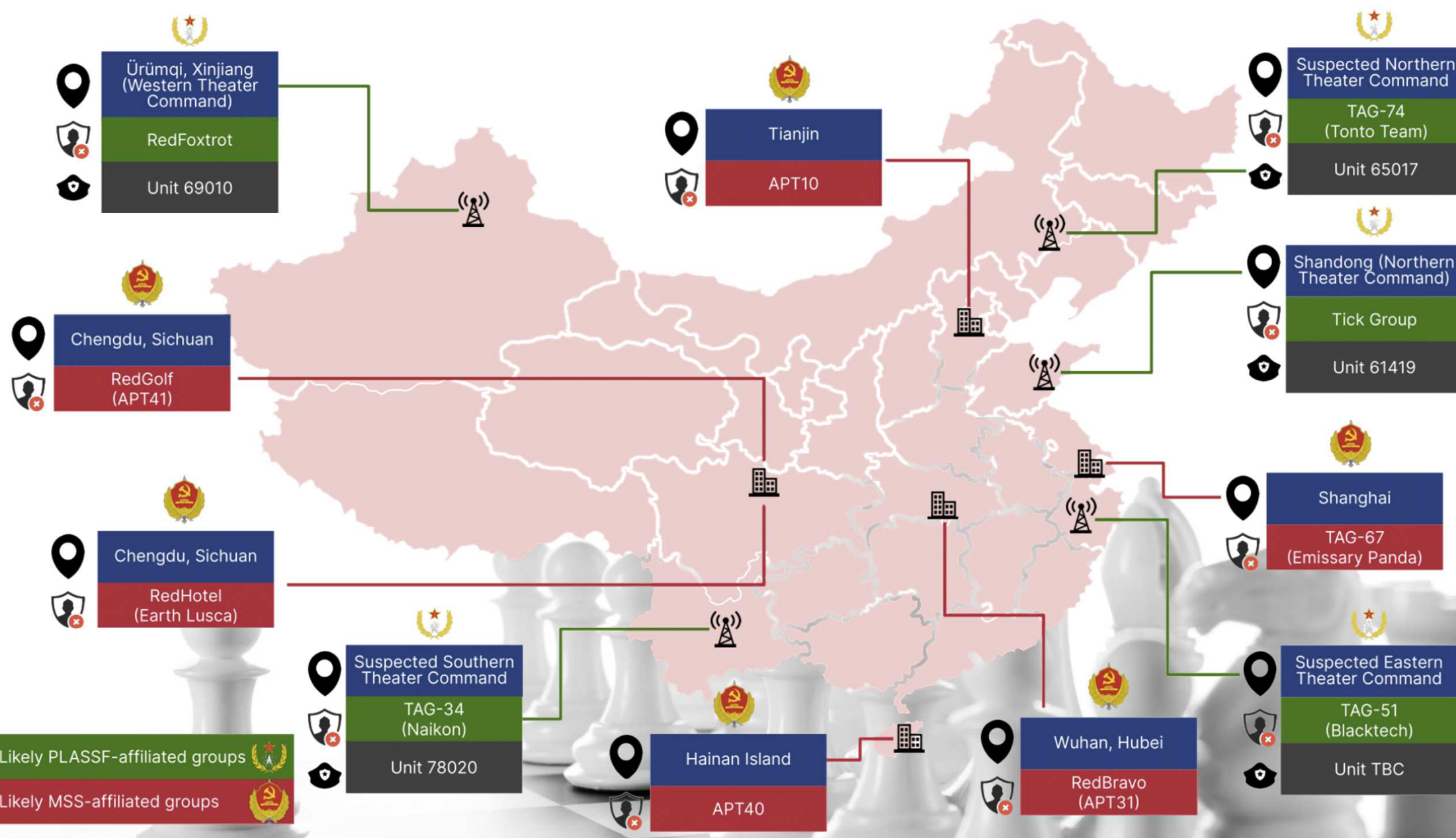


- PRIME THREATS**
- DATA
 - DDoS
 - INFORMATION MANIPULATION
 - MALWARE
 - RANSOMWARE
 - SOCIAL ENGINEERING
 - SUPPLY CHAIN ATTACK
 - WEB THREATS



- WE USED OUR BACKUP SYSTEM TO GET DATA BACK
- WE PAID THE RANSOM TO GET DATA BACK
- WE USED OTHER MEANS TO GET DATA BACK
- WE LOST THE DATA THEY ENCRYPTED








 Ürümqi, Xinjiang
 (Western Theater Command)



 RedFoxtrot



 Unit 69010




 Tianjin



 APT10




 Suspected Northern
 Theater Command



 TAG-74
 (Tonto Team)



 Unit 65017




 Chengdu, Sichuan



 RedGolf
 (APT41)




 Shandong (Northern
 Theater Command)



 Tick Group



 Unit 61419




 Chengdu, Sichuan



 RedHotel
 (Earth Lusca)




 Shanghai



 TAG-67
 (Emissary Panda)




 Suspected Southern
 Theater Command



 TAG-34
 (Naikon)




 Unit 78020




 Hainan Island



 APT40




 Wuhan, Hubei



 RedBravo
 (APT31)





 Suspected Eastern
 Theater Command




 TAG-51
 (Blacktech)



 Unit TBC

Likely PLASSF-affiliated groups 

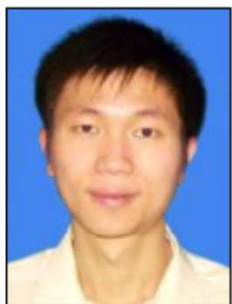
Likely MSS-affiliated groups 



WANTED BY THE FBI

APT 40 CYBER ESPIONAGE ACTIVITIES

Conspiracy to Damage Protected Computers and Commit Economic Espionage;
Criminal Forfeiture



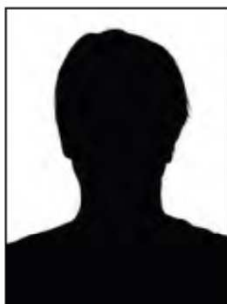
Zhu Yunmin



Wu Shurong



Ding Xiaoyang



Cheng Qingmin

CAUTION

On May 28, 2021, a federal grand jury in the United States District Court for the Southern District of California returned an indictment against four People's Republic of China (PRC) citizens for their alleged roles in a long running campaign of computer network operations targeting trade secrets, intellectual property, and other high value information from companies, universities, research institutes, and governmental entities in the United States and abroad, as well as multiple foreign governments. The indictment alleges that Zhu Yunmin, Wu Shurong, Ding Xiaoyang, and Cheng Qingmin targeted the following sectors: aerospace/aviation, biomedical, defense industrial base, healthcare, manufacturing, maritime, research institutes, transportation (rail and shipping), and virus research from 2012 to 2018, on behalf of the PRC Ministry of State Security. Additionally, the indictment alleges the use of front companies by the PRC Ministry of State Security to conduct cyber espionage.

The four individuals are identified as:

ZHU Yunmin 朱允敏 (STC Codes: 2612/0336/2404) Alias: Zhu Rong

WU Shurong 吴淑荣 (STC Codes: 0702/3219/2837) Aliases: goodperson, ha0r3n, Shi Lei

DING Xiaoyang 丁晓阳 (STC Codes: 0002/2556/7122) Aliases: Ding Hao, Manager Chen

CHENG Qingmin 程庆民 (STC Codes: 4453/1987/3046) Alias: Manager Cheng

If you have any information concerning these individuals, please contact your local FBI office, or the nearest American Embassy or Consulate.

Field Office: San Diego





WANTED BY THE FBI

MANSOUR AHMADI

Conspiracy to Commit Fraud and Related Activity in Connection with Computers; Intentional Damage to a Protected Computer; Transmitting a Demand in Relation to Damaging a Protected Computer



Photograph taken in 2018



DESCRIPTION

Aliases: Mansour Ahmadi	
Date(s) of Birth Used: July 7, 1988	Place of Birth: Tehran Province, Iran
Hair: Dark Brown	Eyes: Brown
Sex: Male	Nationality: Iranian

REWARD

The Rewards for Justice Program, United States Department of State, is offering a reward of up to \$10 million for information on or about the activities of Mansour Ahmadi, Ahmad Khatibi Aghda, and Amir Hossein Nickaein Ravari.

REMARKS

Mansour Ahmadi is known to speak Farsi and reside in Iran.

CAUTION

Mansour Ahmadi, Ahmad Khatibi Aghda, and Amir Hossein Nickaein Ravari are wanted for their alleged involvement in a coordinated campaign which compromised hundreds of computer networks across the United States and abroad. Between October 2020 and August 2022, the three men allegedly gained unauthorized access to protected networks, exfiltrated data, encrypted computer systems, and extorted victims for ransom, causing damage to and disrupting operations of organizations across multiple sectors, including critical infrastructure, government agencies, and non-profit organizations.

On August 10, 2022, a federal grand jury sitting in the United States District Court for the District of New Jersey in Newark, New Jersey, indicted Mansour Ahmadi, Ahmad Khatibi Aghda, and Amir Hossein Nickaein Ravari on charges of conspiracy to commit fraud and related activity in connection with computers, intentional damage to a protected computer, and transmitting a demand in relation to damaging a protected computer.

If you have any information concerning this person, please contact your local FBI office or the nearest American Embassy or Consulate.

Field Office: Newark



WANTED BY THE FBI

CONSPIRACY TO COMMIT AN OFFENSE AGAINST THE UNITED STATES; FALSE REGISTRATION OF A DOMAIN NAME; AGGRAVATED IDENTITY THEFT; CONSPIRACY TO COMMIT MONEY LAUNDERING

RUSSIAN INTERFERENCE IN 2016 U.S. ELECTIONS



Boris Alekseyevich Antonov



Dmitriy Sergeyevech Badin



Anatoliy Sergeyevech Kovalev



Nikolay Yuryevich Kozachek



Aleksey Viktorovich Lukashev



Artem Andreyevich Malyshev



Sergey Aleksandrovich Morgachev



Aleksandr Vladimirovich Osadchuk



Aleksey Aleksandrovich Potemkin



Ivan Sergeyevech Yermakov



Pavel Vyacheslavovich Yershov

DETAILS

On July 13, 2018, a federal grand jury sitting in the District of Columbia returned an indictment against 12 Russian military intelligence officers for their alleged roles in interfering with the 2016 United States (U.S.) elections. The indictment charges 11 defendants, Boris Alekseyevich Antonov, Dmitriy Sergeyevech Badin, Nikolay Yuryevich Kozachek, Aleksey Viktorovich Lukashev, Artem Andreyevich Malyshev, Sergey Aleksandrovich Morgachev, Aleksandr Vladimirovich Osadchuk, Aleksey Aleksandrovich Potemkin, Ivan Sergeyevech Yermakov, Pavel Vyacheslavovich Yershov, and Viktor Borisovich Netyksho, with a computer hacking conspiracy involving gaining unauthorized access into the computers of U.S. persons and entities involved in the 2016 U.S. presidential election, stealing documents from those computers, and staging releases of the stolen documents to interfere with the 2016 U.S. presidential election. The indictment also charges these defendants with aggravated identity theft, false registration of a domain name, and conspiracy to commit money laundering. Two defendants, Aleksandr Vladimirovich Osadchuk and Anatoliy Sergeyevech Kovalev, are charged with a separate conspiracy to commit computer crimes, relating to hacking into the computers of U.S. persons and entities responsible for the administration of 2016 U.S. elections, such as state boards of elections, secretaries of state, and U.S. companies that supplied software and other technology related to the administration of U.S. elections. The United States District Court for the District of Columbia in Washington, D.C. issued a federal arrest warrant for each of these defendants upon the grand jury's return of the indictment.

THESE INDIVIDUALS SHOULD BE CONSIDERED ARMED AND DANGEROUS, AN INTERNATIONAL FLIGHT RISK, AND AN ESCAPE RISK

If you have any information concerning this case, please contact your local FBI office, or the nearest American Embassy or Consulate.

www.fbi.gov

iis.ac.uk

8D 05h 04m 19s

\$ 100000

The Institute of Ismail Studies (IIS) was established in 1977 as an academic institution of higher education dedicated to the study of Islam, with a particular focus on its Ismaili and broader Shi'i

Updated: 12 Jul, 2022, 15:42 UTC

385

lapostemobile.fr

2D 21h 24m 14s

La Poste Mobile is a quadruple play Telecom operator (mobile, landline, Internet and TV via the SFR box) with more than 1.5 million customers. (part 2 - databases)

Updated: 11 Jul, 2022, 15:00 UTC

786

lapostemobile.fr

PUBLISHED

La Poste Mobile is a quadruple play Telecom operator (mobile, landline, Internet and TV via the SFR box) with more than 1.5 million customers. (part 1)

Updated: 11 Jul, 2022, 14:03 UTC

1351

emprint.com

PUBLISHED

[4.7 TB Files] Emprint provides document and printing solutions tailored to address each client's unique needs

Updated: 12 Jul, 2022, 23:15 UTC

1240

acac.com

PUBLISHED

[part 1] acac (Atlantic Coast Athletic Clubs) is one of the Top 100 Fitness and Wellness Clubs in America.

Updated: 13 Jul, 2022, 15:15 UTC

1480

carnbrea.com.au

13D 07h 40m 53s

\$ 1000000

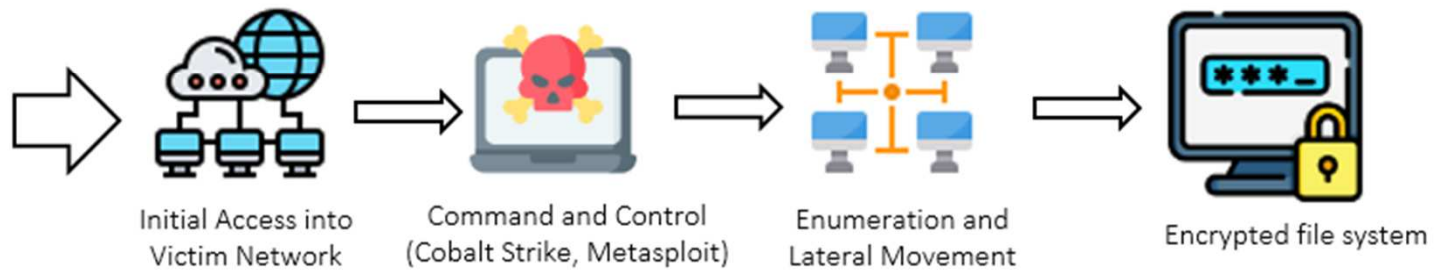
Carnbrea & Co . Australian Wealth and Investment Advisory group Carnbrea is a privately-owned boutique Wealth and Investment Advisory group with a proud 50-year history of providing financial

Updated: 07 Jul, 2022, 01:17 UTC

2586



LOCKBIT 3.0



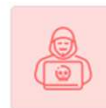
YOUR FILES **ARE ENCRYPTED** BY LOCKBIT



What happend?

Many of your documents, databases, videos and other important files are no longer accessible because they have ben encrypted. Maybe you are busy locking for a way to recover your illes, but do not waste your time. Nobody can recover your files without our decryption service.

LockBit Ransomware use AES and RSA cryptography



How to recover my files?

We guarantee that you can recover all your files safely and easily. You can decrypt a single file for warranty - we can do it. But if you want to decrypt all your files, you need to pay.

Write to support if you want to buy decryptor.

LAPSUS\$ channel

We recruit employees/insider at the following!!!!

- Any company providing Telecommunications (Claro, Telefonica, ATT, and other similar)
- Large software/gaming corporations (Microsoft, Apple, EA, IBM, and other similar)
- Callcenter/BPM (Atento, Teleperformance, and other similar)
- Server hosts (OVH, Locaweb, and other similar)

TO NOTE: WE ARE NOT LOOKING FOR DATA, WE ARE LOOKING FOR THE EMPLOYEE TO PROVIDE US A VPN OR CITRIX TO THE NETWORK, or some anydesk

If you are not sure if you are needed then send a DM and we will respond!!!!

If you are not a employee here but have access such as VPN or VDI then we are still interested!!

You will be paid if you would like. Contact us to discuss that

@lapsusjobs

624 13.3K 12:37 PM

From sajid@bpovision.com ☆

Subject Partnership Affiliate Offer

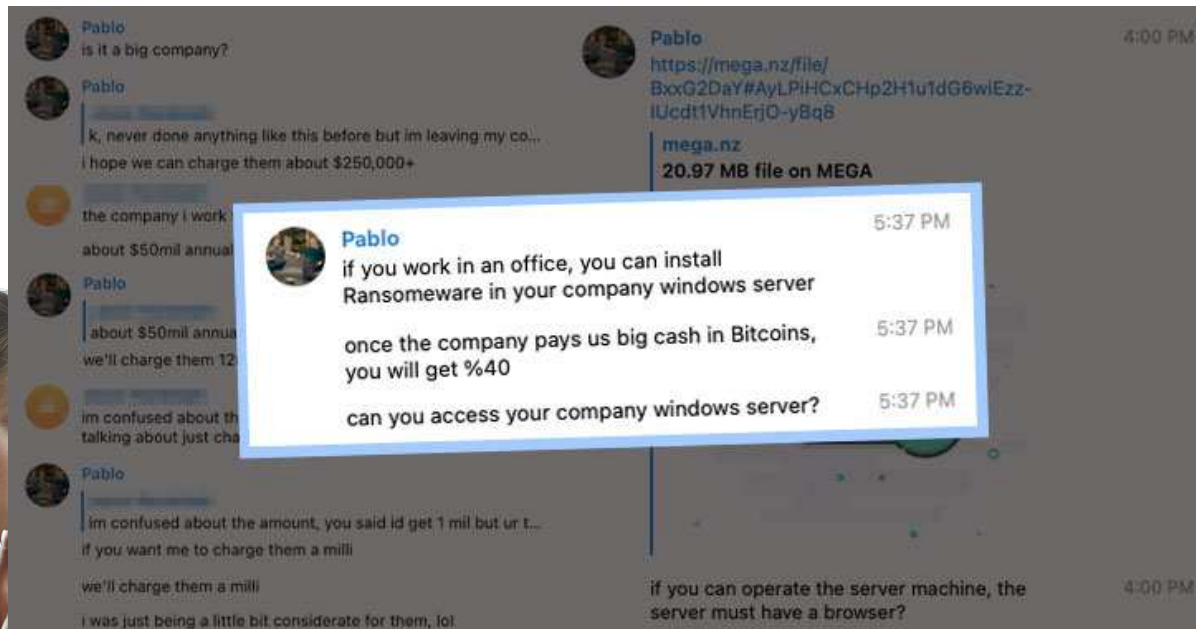
To undisclosed-recipients; ☆

if you can install & launch our Demonware Ransomware in any computer/company main windows server physically or remotely

40 percent for you, a milli dollars for you in BTC

if you are interested, mail: cryptonation92@outlook.com

Telegram : madalin8888



[/r/verizon](#) /u/oklaqq

11/24/2021, 8:16:40 PM

Earning opportunity for a mobile carrier employee ~ \$20000+

My name is Alex.

I am looking for insiders/employees at either ATT, Verizon or T-Mobile

I can offer you upwards of \$20000 a week to do some `*inside jobs*` at either ATT, Verizon or T-Mobile for me. - these tasks are low risk for you and me..... plus you will get paid insanely well by me. - the jobs will involve Sim-Swapping 1 or 2 customers a week.... you won't even be noticed!!!

You can contact me on Telegram, my username is whitedoxbin (<https://t.me/whitedoxbin>)(<https://t.me/whitedoxbin>)

(<https://telegram.org/>)(<https://telegram.org/>) we can discuss further on Telegram or email. If you are interested. This is a great opportunity for me and you!

ZERO-DAY EXPLOITED IN THE WILD CVE-2023-35078 Ivanti Endpoint Manager Mobile (EPMM)

CVSSv3	Severity
10.0	Critical

Authentication bypass vulnerability



Access to specific API paths



Obtain PII data from the server (about the managed mobiles devices)



Modify the server's configuration file (create admin, deploy web shells, push malicious package to mobiles devices)

```
mirror_mod = modifier_ob.  
mirror object to mirror.  
mirror_mod.mirror_object  
operation == "MIRROR_X":  
mirror_mod.use_x = True  
mirror_mod.use_y = False  
mirror_mod.use_z = False  
operation == "MIRROR_Y":  
mirror_mod.use_x = False  
mirror_mod.use_y = True  
mirror_mod.use_z = False  
operation == "MIRROR_Z":  
mirror_mod.use_x = False  
mirror_mod.use_y = False  
mirror_mod.use_z = True  
  
selection at the end -add  
ob.select=1  
modifier_ob.select=1  
context.scene.objects.active  
("Selected" + str(modifier_ob.  
mirror_ob.select = 0  
= bpy.context.selected_object  
data.objects[one.name].select  
print("please select exactly  
OPERATOR CLASSES -----  
  
types.Operator):  
X mirror to the selected  
ect.mirror_mirror_x"
```

ZERO-DAY EXPLOITED IN THE WILD

CVE-2023-35081

Ivanti Endpoint Manager Mobile (EPMM)

CVSSv3	Severity
7.2	High

Path traversal vulnerability

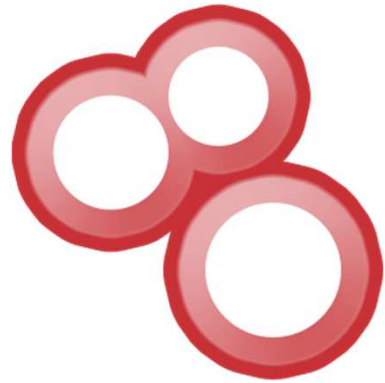


Authenticated administrator can write new files to the EPMM server



Perform malicious activities with admin privileges

```
mirror_mod = modifier_ob.  
    mirror object to mirror.  
    mirror_mod.mirror_object  
    operation == "MIRROR_X":  
        mirror_mod.use_x = True  
        mirror_mod.use_y = False  
        mirror_mod.use_z = False  
    operation == "MIRROR_Y":  
        mirror_mod.use_x = False  
        mirror_mod.use_y = True  
        mirror_mod.use_z = False  
    operation == "MIRROR_Z":  
        mirror_mod.use_x = False  
        mirror_mod.use_y = False  
        mirror_mod.use_z = True  
  
    selection at the end -add  
    mirror_ob.select= 1  
    modifier_ob.select=1  
    context.scene.objects.active  
    ("Selected" + str(modifier_ob.  
    mirror_ob.select = 0  
    bpy.context.selected_object  
    data.objects[one.name].select  
  
print("please select exactly  
-- OPERATOR CLASSES ----  
  
types.Operator):  
    X mirror to the selected  
    object.mirror_mirror_x"
```

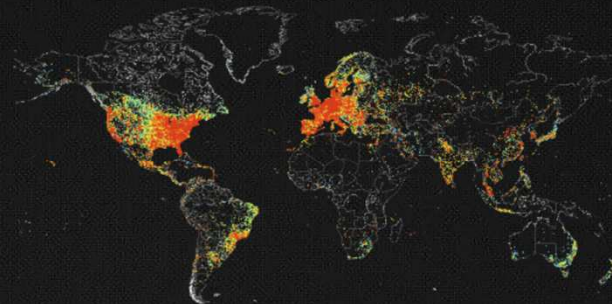



SHODAN

Search Engine for the Internet of Everything

Shodan is the world's first search engine for Internet-connected devices. Discover how Internet intelligence can help you make better decisions.

[SIGN UP NOW](#)



TOTAL RESULTS

5,955

TOP CITIES

Brussels	2,916
Turnhout	254
Mechelen	191
Schaerbeek	175
Antwerpen	158
More...	

TOP ORGANIZATIONS

Google LLC	1,619
Proximus NV	926
Telenet Operaties N.V.	542
Telenet N.V. Residentials	326
Orange Belgium SA	186
More...	

TOP PRODUCTS

Remote Desktop Protocol	5,692
OpenSSH	15
nginx	14
Dahua-based DHI-NVR5216-16P-EI	1

TOP OPERATING SYSTEMS

Windows (build 10.0.19041)	1,162
Windows (build 10.0.17763)	1,083
Windows (build 10.0.14393)	794
Windows Server 2022 (build 10.0.20348)	678
Windows (build 6.3.9600)	467
More...	

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Access Granted: Want to get more out of your existing Shodan account? Check out [everything you have access to.](#)

91.86.78.176

Orange Belgium SA
Belgium, Brussels

self-signed

SSL Certificate

Issued By:
Common Name: IMS.MS.lan
Issued To:
Common Name: IMS.MS.lan
Supported SSL Versions:
TLSv1, TLSv1.1, TLSv1.2

Remote Desktop Protocol
\x03\x00\x00\x13\xe\x00\x00\x124\x00\x02\x1f\x08\x00\x02\x00\x00\x00
Remote Desktop Protocol NTLM Info:
OS: Windows Server 2022
OS Build: 10.0.20348
Target Name: IMS-SERVER
NetBIOS Domain Name: IMS SERVER
NetBIOS Computer Name: IMS
DNS Domain Name: IMS.lan...

2023-12-03T16:33:02.741099

213.118.109.156

d05766D9C.access.telenet.be
Telenet Operaties N.V.
Belgium, Antwerpen

self-signed

SSL Certificate

Issued By:
Common Name: SERVER
Issued To:
Common Name: SERVER
Supported SSL Versions:
TLSv1, TLSv1.1, TLSv1.2

Remote Desktop Protocol
\x03\x00\x00\x13\xe\x00\x00\x124\x00\x02\x1f\x08\x00\x02\x00\x00\x00
Remote Desktop Protocol NTLM Info:
OS: Windows 11 (version 22H2)
OS Build: 10.0.22621
Target Name: SERVER
NetBIOS Domain Name: SERVER
NetBIOS Computer Name: SERVER
DNS Domain Name: SERVER
...

2023-12-03T16:31:32.795266

35.187.82.232

232.82.187.35.bc.googleusercontent.com
Google LLC
Belgium, Brussels

cloud self-signed

SSL Certificate

Issued By:
Common Name: refactor-image-01
Issued To:
Common Name: refactor-image-01
Supported SSL Versions:
TLSv1, TLSv1.1, TLSv1.2

Remote Desktop Protocol
\x03\x00\x00\x13\xe\x00\x00\x124\x00\x02\x1f\x08\x00\x02\x00\x00\x00
Remote Desktop Protocol NTLM Info:
OS: Windows 10 (version 1809)/Windows Server 2019 (version 1809)
OS Build: 10.0.17763
Target Name: REFACTOR-IMAGE-
NetBIOS Domain Name: REFACTOR-IMAGE-
He...

2023-12-03T16:31:12.923513

91.183.119.77

77.119-183-91.adsl-static.isp.be
Ilgacom.be
Proximus NV
Belgium, Brussels

self-signed

SSL Certificate

Issued By:
Common Name: HyperV
Issued To:
Common Name: HyperV
Supported SSL Versions:
TLSv1, TLSv1.1, TLSv1.2

Remote Desktop Protocol
\x03\x00\x00\x13\xe\x00\x00\x124\x00\x02\x1f\x08\x00\x02\x00\x00\x00
Remote Desktop Protocol NTLM Info:
OS: Windows 10 (version 1607)/Windows Server 2016 (version 1607)
OS Build: 10.0.14393
Target Name: HYPERV
NetBIOS Domain Name: HYPERV
NetBIOS Computer Name: ...

2023-12-03T16:25:19.229015

80.201.98.57

57.98-201-80.adsl-dyn.isp.belgacom.be
Proximus NV
Belgium, Liège

SSL Certificate

Issued By:
Common Name: GHOZT-SERVER

Remote Desktop Protocol NTLM Info:
OS: Windows 10 (version 1809)/Windows Server 2019 (version 1809)
OS Build: 10.0.17763
Target Name: GHOZT-SERVER

2023-12-03T16:19:26.484557

country:be port:3389 - Shodan x 194 [redacted] x +

shodan.io/host/194 [redacted]

SHODAN Explore Downloads Pricing Search... Account

194. Regular View Raw Data

// TAGS: self-signed starttls // LAST SEEN: 2023-12-03

General Information

Hostnames: [redacted]

Domains: BELGACOM.BE

Country: Belgium

City: Moorsele

Organization: [redacted]

ISP: Proximus NV

ASN: AS5432

Vulnerabilities

CVE-2019-0708 10.0 A remote code execution vulnerability exists in Remote Desktop Services formerly known as Terminal Services when an unauthenticated attacker connects to the target system using RDP and sends specially crafted requests, aka 'Remote Desktop Services Remote Code Execution Vulnerability'.

Open Ports

21 80 3389 5800 5900

// 21 / TCP -1843544321 | 2023-11-19T09:55:28.297950

```

220-FileZilla Server 1.5.1
220 Please visit https://filezilla-project.org/
530 Login incorrect.
214-The following commands are recognized.
NOP USER TYPE SYST SIZE RNT0 RNFR RMD REST QUIT
HELP XPWD MLST MKD EPSV XCWD NOOP AUTH OPTS DELE
CWD CDUP APPE STOR ALLO RETR PWD FEAT CLNT MFMT
MODE XRPD PROT ADAT ABOR XPWD MDTM LIST MLSO PBSZ
NLST EPRT PASS STRU PASV STAT PORT
214 Help ok.
211-Features:
MDTM
REST STREAM
SIZE
MLST type*;size*;modify*;perm*;
MLSO
AUTH SSL
AUTH TLS
PROT
PBSZ
UTF8
TVFS
EPSV
EPRT
MFMT
211 End

```

SSL Certificate

Certificate:

```

Data:
Version: 3 (0x2)
Serial Number:
(Negative)13:3b:45:27:2c:b7:79:81:91:35:74:ec:f6:2f:8d:8f:2d:18:94:ff
Signature Algorithm: ecdsa-with-SHA256
Issuer: CN=filezilla-server self signed certificate
Validity
Not Before: Feb 14 03:55:45 2023 GMT
Not After : Feb 15 04:00:45 2024 GMT
Subject: CN=filezilla-server self signed certificate
Subject Public Key Info:
Public Key Algorithm: id-ecPublicKey
Public-Key: (256 bit)
pub:
04:7e:98:9e:66:f2:b2:b2:0a:ad:6d:e5:da:48:64:
-----

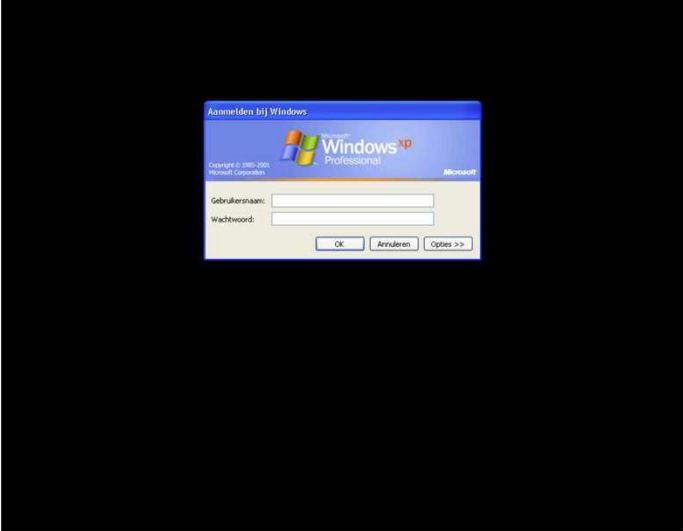
```

// 3389 / TCP -550512957 | 2023-12-03T15:34:46.883274

Remote Desktop Protocol

Remote Desktop Protocol
\\x03\\x00\\x00\\x0b\\x06\\x00\\x00\\x00\\x124\\x00

Anmelden bij Windows
Gebruikersnaam:
Wachtwoord:
Annuleren Opties



The screenshot shows a Windows XP login window titled 'Aanmelden bij Windows'. It features the Windows XP logo and 'Professional' text. There are two input fields for 'Gebruikersnaam:' and 'Wachtwoord:'. At the bottom, there are three buttons: 'OK', 'Annuleren', and 'Opties >>'. The background of the screenshot is black.

// 5800 / TCP 1569041836 | 2023-11-22T00:53:36.746726

TightVNC Java Viewer

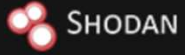
HTTP/1.0 200 OK

// 5900 / TCP 117718508 | 2023-11-22T01:24:57.994705

VNC

RFB 003.008

VNC:
Protocol Version: 3.8
Security Types:
2: VNC Authentication
17: Ultra



Explore

Downloads

Pricing [↗](#)

country:be port:"445"



TOTAL RESULTS

1,992

TOP CITIES

Brussels	863
Antwerpen	196
Oostkamp	161
Liège	89
Gent	86
More...	

TOP ORGANIZATIONS

Orange Belgium SA	349
Google LLC	269
Teneo BVBA	159
Brutele SC	127
Proximus NV	109
More...	

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New Service: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

81.241.224.238

238.224-241-81.adsl-static.isp.belgacom.be

ADSL-OFFICE

Belgium, Roeselare

SMB Status:

Authentication: enabled
SMB Version: 2
Capabilities: raw-mode

178.145.30.241

241-30-145-178.mobileinternet.proximus.be

Proximus Mobile Internet

Belgium, Brussels

Vulnerabilities

SMBv3 Remote Code Execution

SMB Status:

Authentication: enabled
SMB Version: 1
OS: Windows 10 Enterprise 18363
Software: Windows 10 Enterprise 6.3
Capabilities: extended-security, infolevel-passthru,

62.213.207.174

mail.redrobot.be

Kangaroot BVBA

Belgium, Brussels

SMB Status:

Authentication: enabled
SMB Version: 1
OS: Windows Web Server 2008 R2 7601 Service Pack 1
Software: Windows Web Server 2008 R2 6.1
Capabilities: extended-security, infolevel-passthru, large-files, large-readx, large-writex,



TOTAL RESULTS

276

TOP CITIES

Brussels	162
Antwerpen	24
Liège	13
Charleroi	11
Libramont	5
More...	

TOP ORGANIZATIONS

Google LLC	72
Orange Belgium SA	64
Proximus NV	11
Scarlet Belgium NV/SA	11
Telenet Operaties N.V.	11
More...	

TOP PRODUCTS

Samba	197
Alfresco CIFS Server 6.0.0	1
LINKSYS09419	1
Linksys04691	1

TOP OPERATING SYSTEMS

Windows 6.1	140
Unix	43
QTS	16
Windows 7 Professional 7600	4
Java	1

View Report Download Results Historical Trend View on Map

New Service: Keep track of what you have connected to the Internet. Check out [Shodan Monitor](#)

35.240.63.202

202.63.240.35.bc.googleusercontent.com
 Google LLC
 Belgium, Brussels

cloud

SMB Status:
 Authentication: disabled
 SMB Version: 1
 OS: Windows 6.1
 Software: Samba 4.9.5-Debian
 Capabilities: dfs, extended-security, infolevel-passthru, large-files, large-readx, large-writex, level2-oplocks,

Name	Type	Comments
localrepo	Disk	FortiPoC Local Repository
IPC\$	IPC	IPC Service (Samba 4.9.5-Debian)

62.235.86.254

ip-62-235-86-254.dsl.scarlet.be
 Scarlet Belgium NV/SA
 Belgium, Dour

SMB Status:
 Authentication: disabled
 SMB Version: 1
 OS: Windows 6.1
 Software: Samba 4.4.3
 Capabilities: dfs, extended-security, infolevel-passthru, large-files, large-readx, large-writex, level2-oplocks,

Name	Type	Comments
share	Disk	
IPC\$	IPC	IPC Service (Android_ece7ad)

87.66.21.39

39.21-66-87.adsl-static.isp.belgacom.be
 Proximus NV
 Belgium, Brussels

SMB Status:
 Authentication: disabled
 SMB Version: 1
 OS: QTS
 Software: Samba 4.4.16
 Capabilities: dfs, extended-security, infolevel-passthru, large-files, large-readx, large-writex, level2-oplocks,

Name	Type	Comments
Multimedia	Disk	System default share

Let's secure the
future, together.



Cybersecurity Challenges



Work From Anywhere

Hybrid work requires a complete revamp of how we think about and approach security



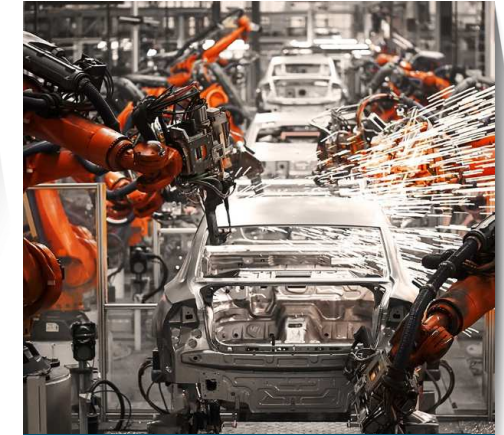
Applications & data are Everywhere

71% of organizations are pursuing a hybrid (36%) or multi-cloud strategy (35%) for integration of multiple services, scalability or business continuity reasons



Compliance Requirements

A growing demand for law regulations and market standards like ISO27k1, NIS2, CRA, ...



Operational Technology Connectivity

42% indicate that their control systems had direct connectivity to the internet up from 12% in 2019

← Detection & Response →

CYBERSECURITY ACCELERATOR PROGRAM



Identify & Inspire

Audit & Assessment
Ethical hacking
Roadmap
Proof of Concept

Protect & Integrate

Zero Trust implementation

- Identities
- Devices
- Data
- Applications
- Networks & Infrastructure

Detect & Operate

Managed Security Services
Vulnerability Management
MDR Services

Respond & Optimize

Incident Response
Governance
CISO as a Service
User Awareness

CSAT Assessment Roadmap

Why CSAT?

Organizations need to know their cyber security vulnerabilities

- Market demands to take security seriously
- Law regulations and market standards (NIS2/GDPR/ISO27k)
- Brand reputation damage and financial penalties

Organizations need an action plan to improve cyber security

- Fact based actionable insights
- Align Business Management & IT/Security Management with one common truth

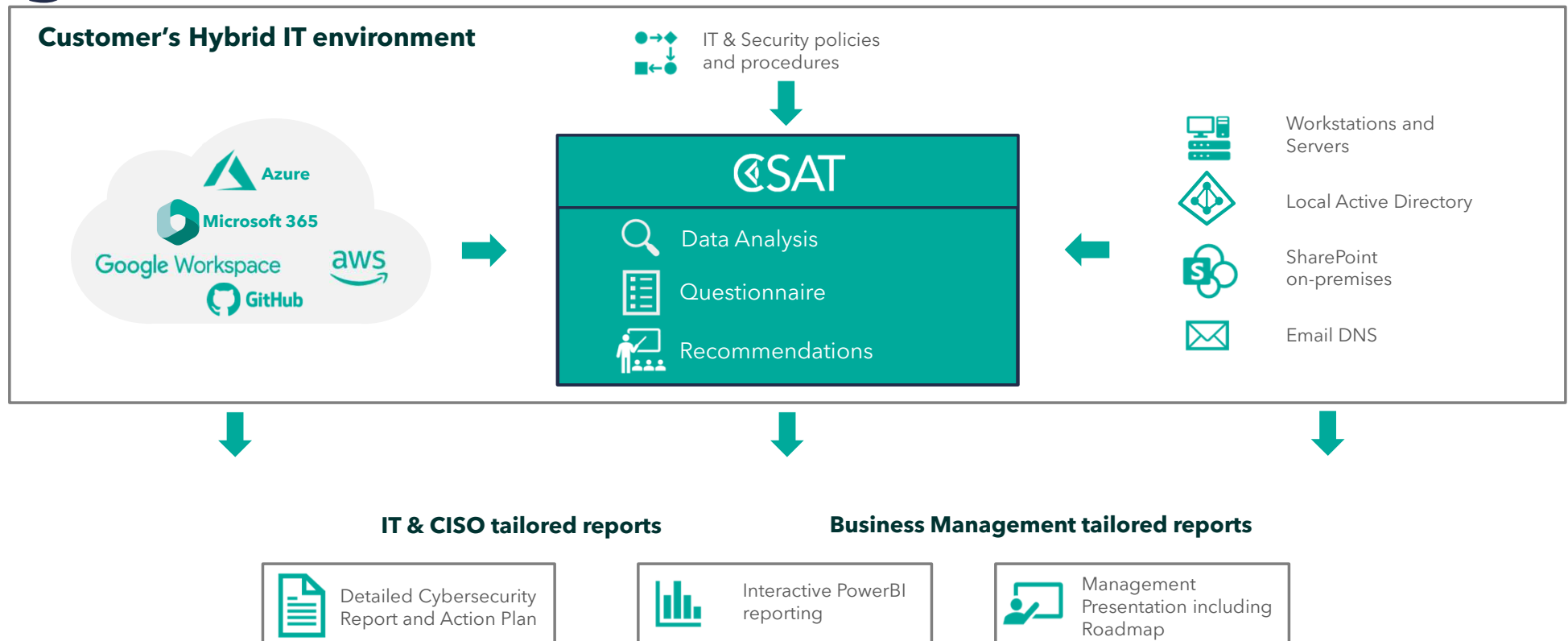
Focus your limited security budgets on the highest risks

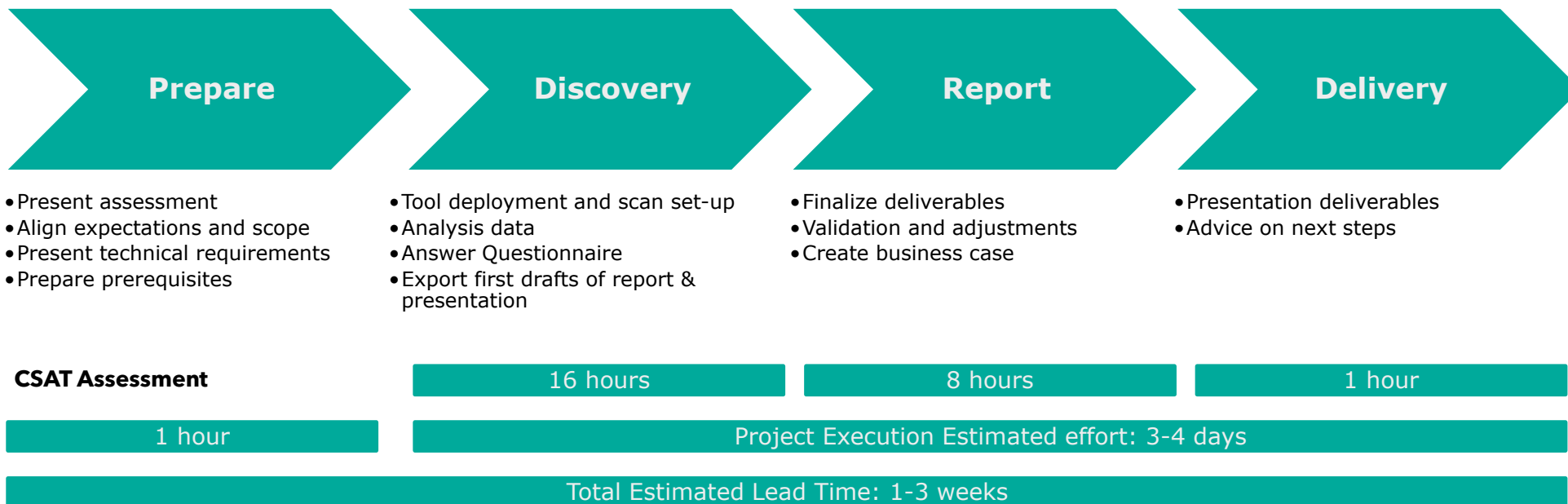
- Invest in the right security initiatives by making informed decisions based on facts

Recognized solution to conduct Cybersecurity Assessments in all segments

- Over 2000 assessments worldwide
- Global partnership with Microsoft
- Customers in all segments and industries

Data collection and report generation





Steps of the Cybersecurity Assessment

Step 1

Let's get started!



Set-up a kick-off call with a Cybersecurity specialist to:

- Make introductions
- Discuss goals of the assessment
- Share system requirements



Prepare your environment for the assessment and plan next activities

Step 2

We **collect and analyze** your IT asset data



One of our Cybersecurity specialists runs the scans & tests to collect relevant data



Discuss your organization's cybersecurity posture in an interview (IT manager/CIO/CISO required)

Step 3

Presentation of the report

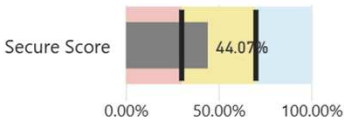


Deliver presentation and discuss findings, conclusions and recommendations.



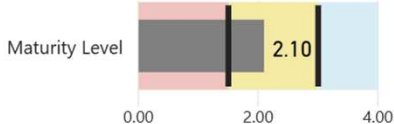
Share final report and presentation

ENVIRONMENT



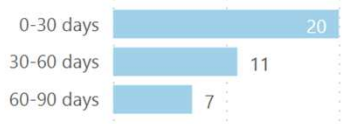
CIS MATURITY LEVEL

CIS v8 Average Maturity Level



APPROACH PLAN

Approach Plan Period



Cloud: Azure Discovery



Azure Accounts

Provides a snapshot summary of Azure AD accounts (internal and external users).

On Premise: Active Directory



AD Accounts

Provides a snapshot summary of on-premises AD accounts.



AD Groups

Overviews membership to on-premises AD groups as well as AD password policies.



AD Devices

Review the computer accounts in your organizational Active Directory

Cloud: Microsoft 365



Licenses

Understand your current licensing position and review your enabled assets



Microsoft 365 MFA

Presents the MFA status on Azure AD accounts.



Secure Score

A measurement of your organization's security posture, recommendations based on system configurations and user behaviour, across M365 services.

On-Premise: Endpoints

1 > 2



Endpoint Analysis

Provides a snapshot of risks associated to endpoints (client and server) including out of support Operating Systems.



Applications

Provides a repository of software installs and brings vulnerable installations to the forefront.



Missing Updates

Assesses the types of updates that are missing from Windows systems.



SQL Instances

Presents the support status of SQL instances.



Analysis Shares

Discover directories that are currently accessible to multiple users on a network.

Category

Additional Questions | **CIS v8**

Level 2 - Standardized: The program is proactive and the risks of a cybersecurity issue are significant.

Risk Level

- Average
- High
- Low
- Urgent

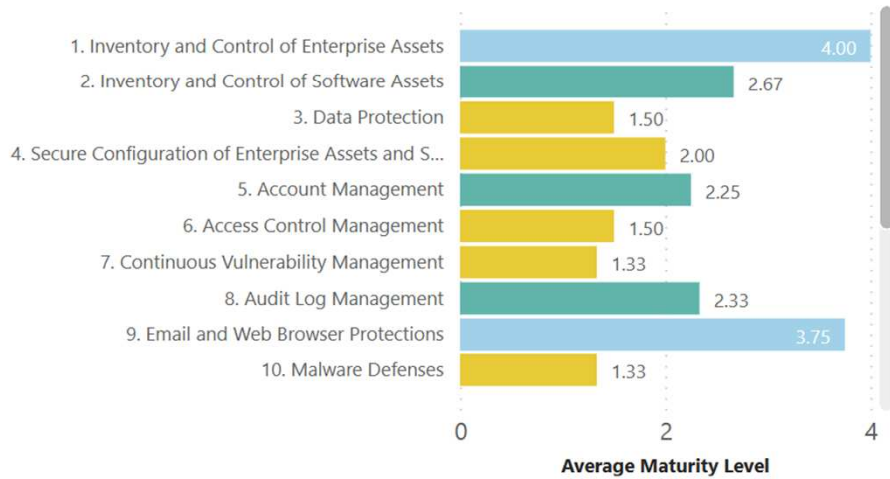
ZTA Framework

All

Average Maturity Score



Average Maturity Level by Control Objective



Topic's Control Objectives

1. Inventory and Control of Enterprise Assets

CIS Control Objectives

Actively manage (inventory, track, and correct) all Enterprise assets on the network so that only authorized devices are given access, and unauthorized and unmanaged devices are found and prevented from gaining access.

Recommended Product(s)

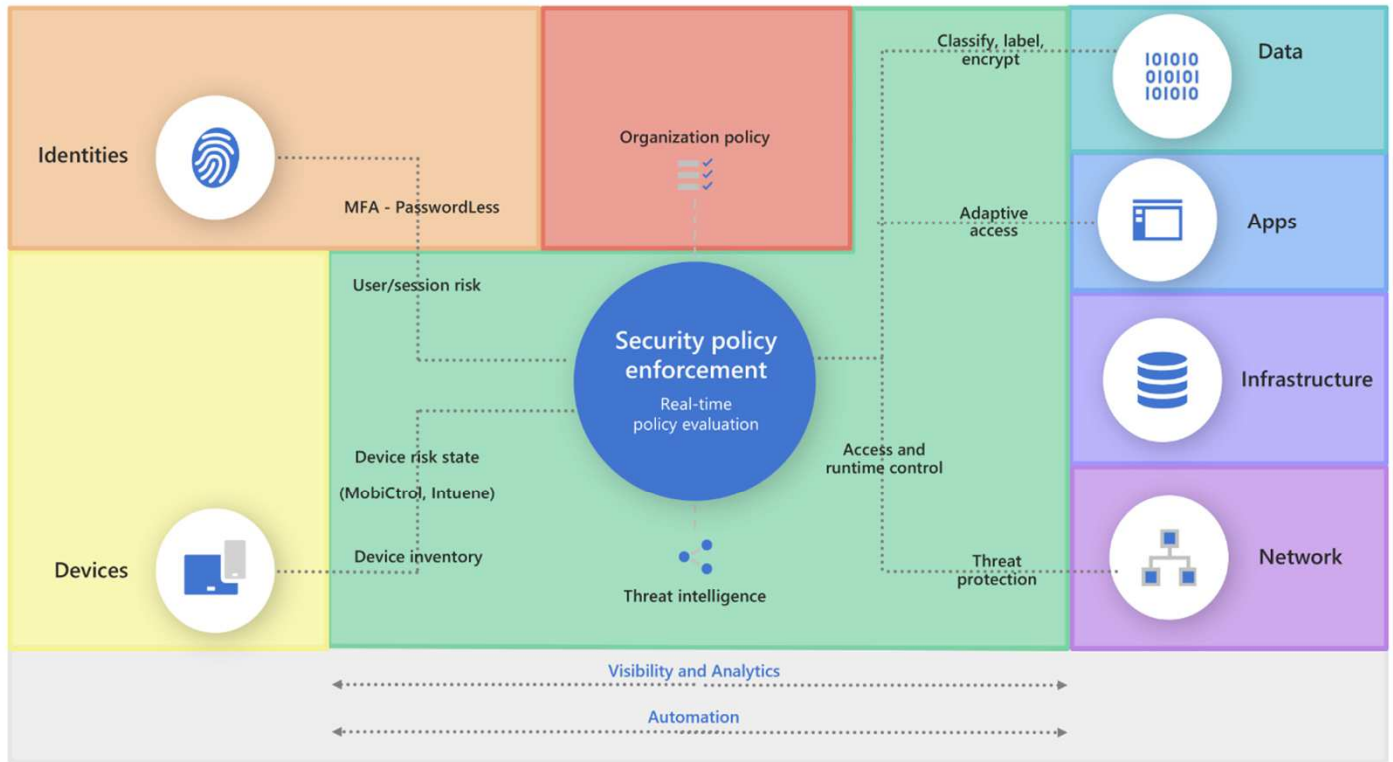
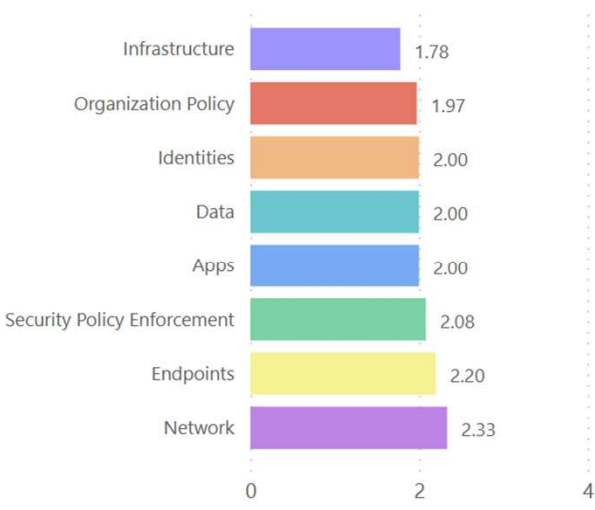
Configuration Management Database, Software Asset Management [SAM] tooling, Microsoft Defender for Cloud Apps, Defender for Endpoint Plan 2

Question	Answer	Recommendations
How is data management organized in your organization?	Standardized (2) A data management policy is available. Data management processes are implemented. There is no control regarding how the policies are being used.	Revise the policy and processes annually. Implement tools to automatically inventory and manage data protection measures. Report policy compliance to the respective stakeholders.
How is access to data being controlled, how are checks being carried out on granted permissions?	Standardized (2) Basic security groups have been implemented on shares, folders and collaboration sites/tools. We do not monitor given permissions.	Implement security groups based on the business roles matrix. Implement separate groups for read-only and read-write access to protect shares, folders, sites achieving 'least-privilege' access. Provide similar to your (cloud) collaboration environment.
How is your data management process organized regarding data retention and secure data disposal?	Basic (1) A data retention and disposal process has not been implemented in our organization.	Determine the regulatory requirements your organization needs to comply with. Implement a data retention and disposal process that complies with regulation.



Zero-Trust Architecture is an enterprise's cybersecurity plan that utilizes zero-trust concepts and encompasses component relationships, workflow planning, and access policies.

Zero Trust Framework Average Maturity



ZTA Framework	Recommendation
Organization Policy	Configure a single central authentication source for all applications and systems, cloud as well as on-premises.
Organization Policy	Create a data classification scheme and create the corresponding labels. Instruct users in how to use the labels in order to comply with regulatory requirements.
Organization Policy	Create a process to document the given access, assessment on security measures, monitoring, and decommissioning of the service providers.
Organization Policy	Designate a key resource(s) to handle the reported security incidents.

1222

Users Record

Password Last Set

07/04/2011

09/10/2023

Active Directory Accounts Summary

	User Count
Enabled Accounts	717
Disabled Accounts	505
Enabled Accounts no login more than 30 days	189
Enabled Accounts no login more than 90 days	179
Enabled Accounts never logged in	93
Users with Bad Password Attempts (>5)	3
Enabled Accounts with AdminCount attribute	55

Active Directory User Account Control Flags (Enabled)

	User Count
Password is not Required	19
Don't Require PreAuthorization	0
Reversible Text Password	0
Password is not going to expire	339
Smartcard Required	0
Use DES Key Only	0
Trusted to Authenticate For Delegation	3
Partial Secrets Account	0

- **179** Accounts have **not logged on for 90 days** and **93** accounts have **never logged on**. Review these accounts and disable the unused accounts.
- **505** Accounts are **disabled**, clean these accounts up.
- **0** Accounts **do not require Kerberos pre-authentication** for logon. Kerberos pre-authentication enables protection against password-guessing attacks. Review this accounts and check if there is a requirement to use this setting.
- **19** Accounts have the setting **Password Not Required** enabled. This flag enables an account to logon with a blank password. Review these accounts and remove this setting if possible. To change this setting an IT administrator should use PowerShell.
- **339** Accounts have the settings **Password not going to expire**. Older passwords are more vulnerable to being hacked. Review these accounts and remove this setting if possible.
- **0** Accounts have the setting **Reversible Text Passwords** enabled, this means that the encrypted passwords can be decrypted. Review these accounts and remove this setting.
- **0** Accounts have the setting **Smartcard required**, this flag forces the user to log on using a smartcard. In case the smartcard is stolen or lost, this could potentially result into a security breach.
- **0** Accounts use **DES Key Only**, this encryption method uses 56-bit keys. Its short key length makes it vulnerable to a brute-force attack. Therefore, it is advised to review these accounts and disable this UAC flag. It is advised to apply the **AES (Advanced Encryption Standard)** on all accounts.
- **3** Accounts presented a high number of failed password attempts (greater than 5). To mitigate the risk of becoming compromised through stolen identities, suspicious logons should be monitored.

UAC Overview (Enabled Accounts)

UAC Description	User Count	AdminCount Users	Description
Interdomain Trust Account	1	0	It's a permit to trust an account for a system domain that trusts other domains. Normally, the name of the account is the NetBIOS name of the domain with a '\$' at the end. This flag should never be set for a user account.
Normal Account	728	55	It's a default account type that represents a typical user. To distinguish this type of account from other types is necessary because not only user objects have a userAccountControl attribute, but also computer objects and others representing domain controllers or trust relationships.
Password Doesn't Expire	339	44	Represents the password, which should never expire on the account. The user is not subject to an expiration policy regarding a forced password change interval: The password of this account never expires.
Password Not Required	19	1	No password is required. The user is not subject to a possibly existing policy regarding the length of the password.

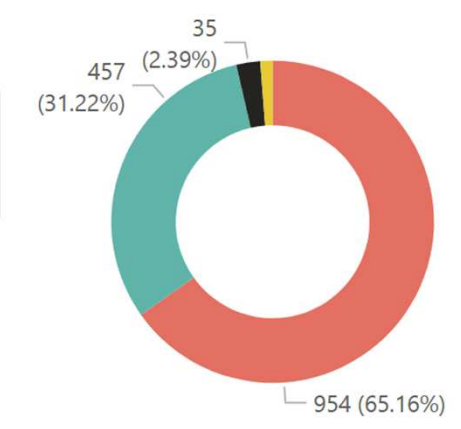
Type	Enabled?	Devices
All	No	334
	Yes	1157
	Total	1491

Workstations Version Support Build

OS Name	OS Version	#Devices	Support Status
Windows 8.1 Enterprise	6.3.9600	531	End of Supp...
Windows 10 Enterprise	10.0.19045	326	Mainstream
Windows 7 Enterprise	6.1.7601	183	End of Supp...
Windows 10 Pro	10.0.19045	65	Mainstream
Windows 10 Enterprise	10.0.18363	31	End of Supp...
Windows 7 Enterprise	6.1.7601	29	End of Supp...
Windows 10 Enterprise	10.0.19044	28	Mainstream
Windows 10 Enterprise	10.0.19045	27	Mainstream
Windows 8.1 Enterprise	6.3.9600	21	End of Supp...
Windows XP Professio	5.1.2600	16	End of Supp...
Total		1315	

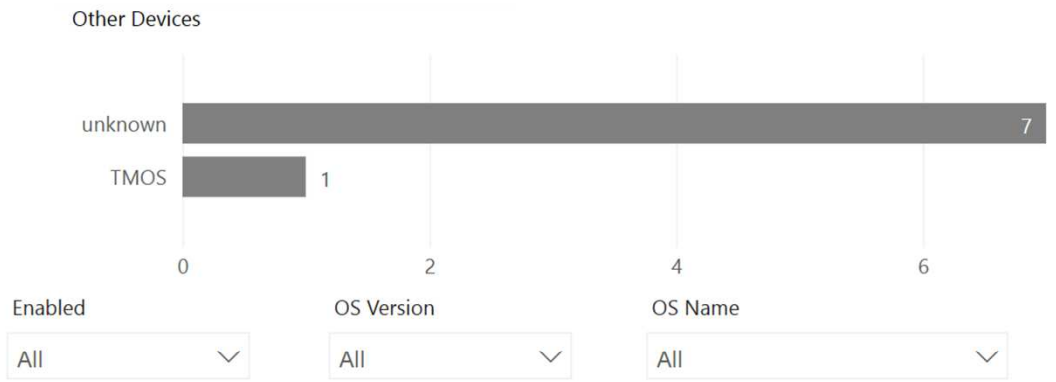
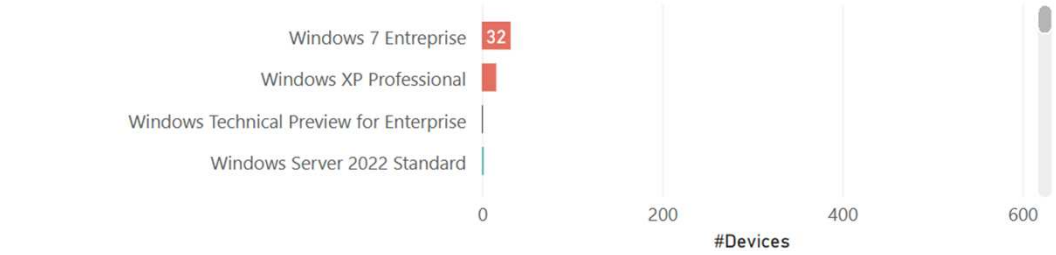
Windows Support Status

● End of Support ● Mainstream ● Out ● Extended



Windows Devices

Support Status (OS) ● End of Support ● Extended ● Mainstream ● Out



Device Name

Device Name	Operating System	Type	Days since Last Logon	OS Version	Support Status Build
B	Windows 10 Enterprise	Workstation	0	10.0.19045	Mainstream
L	Windows 10 Pro	Workstation	0	10.0.19045	Mainstream
L	Windows 10 Enterprise	Workstation	0	10.0.19045	Mainstream
L	Windows 10 Enterprise	Workstation	0	10.0.19045	Mainstream
L	Windows 10 Pro	Workstation	0	10.0.19045	Mainstream
Total				2035699	

- There are **1157** Enabled Accounts and **334** Disabled Accounts. Clean up the disabled accounts.
- There are **740** Enabled Accounts with inactivity beyond 30 days (**78** Servers and **639** Workstations).
- **65** Enabled Workstations have Windows 10 Installations with a current unsupported build. Update to the latest version of Windows 10 (**19045 build**) or to **Windows 11**.

34 Devices

Type: All

Support Status: All

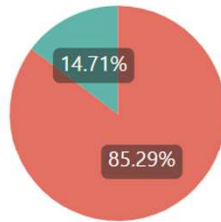
Antivirus Name: All

AV Status: All

Search

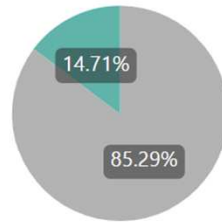
BitLocker Enabled

No Yes



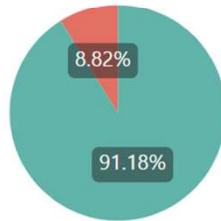
Antivirus Update Status

Unknown Up to Date



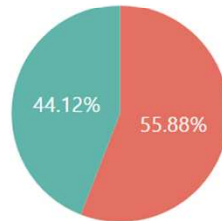
SMBv1 Client Disabled

Yes No



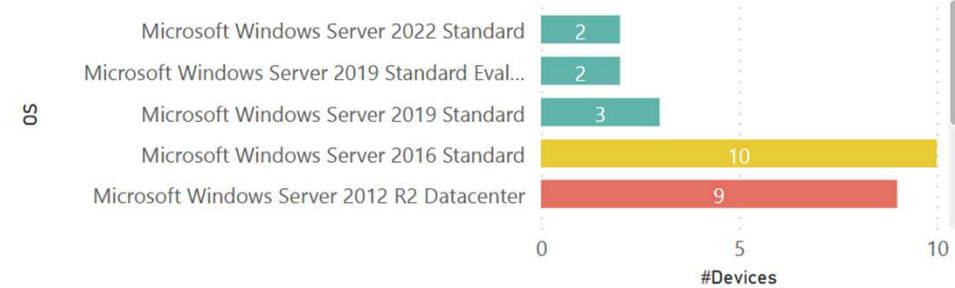
SMBv1 Server Disabled

No Yes



Windows Devices

Support Status (OS) End of Support Extended Mainstream Out



- 3 endpoints were found with **SMBv1 Client** not disabled and 19 endpoints with **SMBv1 Server** not disabled. Make sure SMBv1 is disabled on all systems. SMBv1 can be disabled using GPO configuration, Windows PowerShell, or Microsoft Intune.
- 0 Client endpoints do not have BitLocker encryption enabled.
- 29 Server endpoints do not have BitLocker encryption enabled. Implementing storage encryption like Windows BitLocker, Android/iOS device encryption form a cost-effective way to prevent data loss on stolen or lost devices by preventing unauthorized access to said storage.
- 0 Workstations were found with a Build in **End of Support**.

OS Type: All

Version: All

OS Version: All

Device Name	Type	Operating System	OS Version	Support Status (OS)	Core Count	Total RAM (GB)	Used Storage (GB)	Bit Locker	AV Name	AV Status	AV Definition	Total active AV	SM
	Server	Microsoft Windows Server 2016 Standard	1607	Extended	4	6.00	31.70	No	Windows Defender	On	Unknown	1	Yes
	Server	Microsoft Windows Server 2016 Standard	1607	Extended	2	8.00	23.65	No	Windows Defender	On	Unknown	1	Yes
	Server	Microsoft Windows Server 2019 Standard Evaluation	1809	Mainstream	4	32.00	14,969.85	No	Windows Defender	On	Unknown	1	Yes
Total					156	884.00	44,376.90					19	

1891

Users

User Type

All

State

All

MFA Status Summary

User Type	Not Registered	Registered	Total
Internal User	999	392	1391
External User	500		500
Total	1499	392	1891

MFA Registered Methods

Methods Registered	Internal User	Total
Alternate mobile phone	10	10
Email	96	96
Microsoft Authenticator app (push notification)	171	171
Mobile phone	381	381
Office phone	7	7
Software OATH token	171	171
Windows Hello for Business	23	23
Total	859	859

Conditional Access Policies

Policy Name	State	Date Created
[REDACTED]	Disabled	
M...	Enabled	10 January 2023



The **NIS 2 Directive** is the EU-wide legislation on cybersecurity. The goal of NIS 2 is to enhance the security level in the same level across the EU. Some of the key benefits of the NIS 2 Directive:

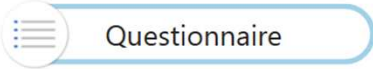
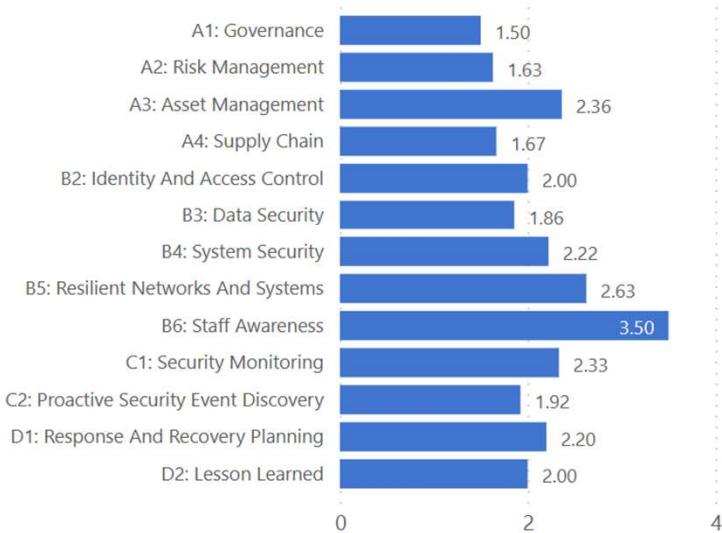
- Improve the cybersecurity posture of your businesses across EU, making it more resilient to cyberattacks.
- Promote a more harmonized approach to cybersecurity, making it easier for businesses to operate across borders.
- Strengthen the EU's ability to respond to cyberattacks and other cybersecurity threats.

NIS 2 Principles have been linked with the questionnaire to provide a current state based on the **NIS Regulations - Compliance Framework** (some questions may apply to more than one Principle)

NIS 2 Objectives Average Maturity



NIS 2 Principles Average Maturity

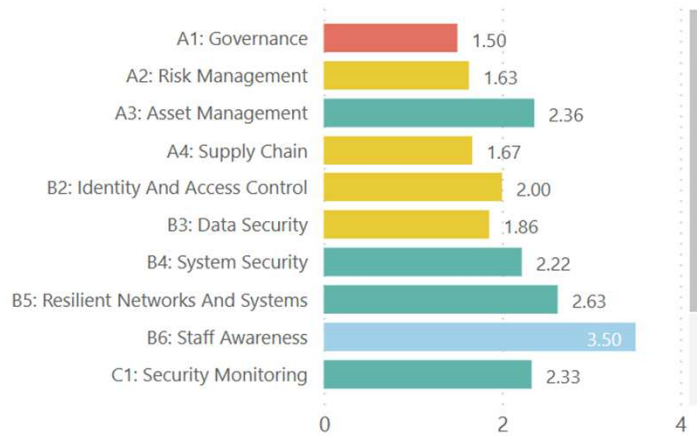


NIS Objectives

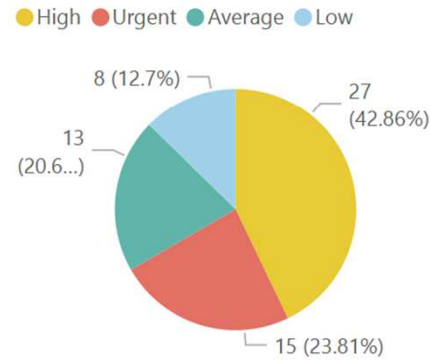


- Risk Level
- Average
 - High
 - Low
 - Urgent

Average Maturity by NIS 2 Principles



Risk Level Summary



Question	Answer	Recommendation	Advised Product	Risk Level
Are all default (admin) passwords for organizational assets, like applications, operating systems, printers, firewalls, and other (IoT) devices changed into unique passwords? Do the passwords used adhere to best practices?	Standardized (2) A process has been implemented to change the default passwords of all devices/appliances that are being attached to our IT infrastructure.	The passwords are changed before the devices are attached to the organizations infrastructure. Change the default usernames where possible.		High
Are email attachments scanned in a sandboxed environment and what is your policy regarding the malicious attachments which are discovered?	Dynamic (4) Inbound and outbound emails are scanned for spam, malicious attachments and phishing attacks in real time. Unwanted file types are blocked or quarantined.	None		Low
Are network-based URL filters (incl. DNS	Dynamic (4) URL, IP and DNS filter functionalities	None		Low

First Phase

The information gathered during the interview with your security team, along with the technical facts gathered from the **CSAT scan**, result in **recommendations** to get on par with the current recommended practices. The multitude of them can be overwhelming. The below **plan of approach** is our suggestion on how to **prioritize** them.

Second Phase

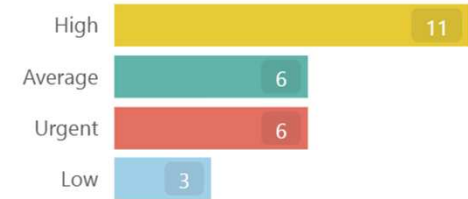
The **First Phase** is focused to mitigate the risk against **rapid cyberattacks**, and to enable so-called '**low-hanging fruit**' features (features that are relatively easy to implement yet with high impact on preventing security incidents). It also focuses on **rejuvenating your security strategy**.

Third Phase

Human-Operated Ransomware Topic Category

All All All

Risk Level



Approach Plan: 0-30 Days



Topic	Recommendation	Recommended Product	Note	Risk Level
19. AQ 1. IT Governance	Establish an IT security plan or roadmap that covers all relevant business objectives, compliance requirements and risk mitigation plans		Roadmap is being defined	Urgent
20. AQ 2. Data Governance	Implement a basic risk management process.		Urgent	
5. Account Management	Implement a process to check for dormant administrator, service and user accounts. Ensure the process is scheduled at least quarterly.		Urgent	
6. Access Control Management	Implement business ownership of all accounts/identities, including checks by the business/functional owner of each accounts/identities. Cleanup old accounts/identities		Urgent	
7. Continuous Vulnerability Management	Implement a basic risk assessment process.		Urgent	
7. Continuous Vulnerability Management	Implement a process to identify or remediate software or configuration vulnerabilities. And perform this process on a quarterly, or more frequent, basis.		Urgent	

PEOPLE

IDENTITY Microsoft Evidian inetum realdolmen Positive digital flow	AWARENESS HOXHUNT	MDR Microsoft splunk inetum realdolmen Positive digital flow	DARKWEB Secutec Recorded Future
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HARDWARE

ENDPOINT Microsoft Trend Micro CrowdStrike Fortinet	IOT/OT ARMIS Fortinet tenable	ASSET MANAGEMENT ARMIS
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NETWORK

SOFTWARE

WAF Microsoft	CITRIX
APPSEC Snyk	tenable

DATA RISK & COMPLIANCE

VULNERABILITY MANAGEMENT tenable CrowdStrike Microsoft ARMIS	BACK-UP veeam AvePoint COMVAULT Microsoft	DATA Microsoft
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POLAND | ROMANIA | MOROCCO | TUNISIA | SENEGAL | CÔTE D'IVOIRE | ANGOLA |
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