

МЕЖДУНАРОДЕН ОБРАЗОВАТЕЛЕН ФОРУМ

”ОБРАЗОВАНИЕТО ПРЕЗ ПАРАДИГМАТА НА ХУМАНИЗМА И ИЗКУСТВЕНИЯ ИНТЕЛЕКТ”



ИЗКУСТВЕНИЯТ ИНТЕЛЕКТ И РОЛЯТА МУ В ЗАЩИТА НА КИБЕРПРОСТРАНСТВОТО

ДИМИТЪР ДИМИТРОВ

ВИСШЕ ВОЕННОМОРСКО УЧИЛИЩЕ „НИКОЛА ВАПЦАРОВ“

大国竞争

Въведение в настоящия пейзаж на заплахите. Киберпространството като основен стратегически метод за конкуриране между Великите Сили

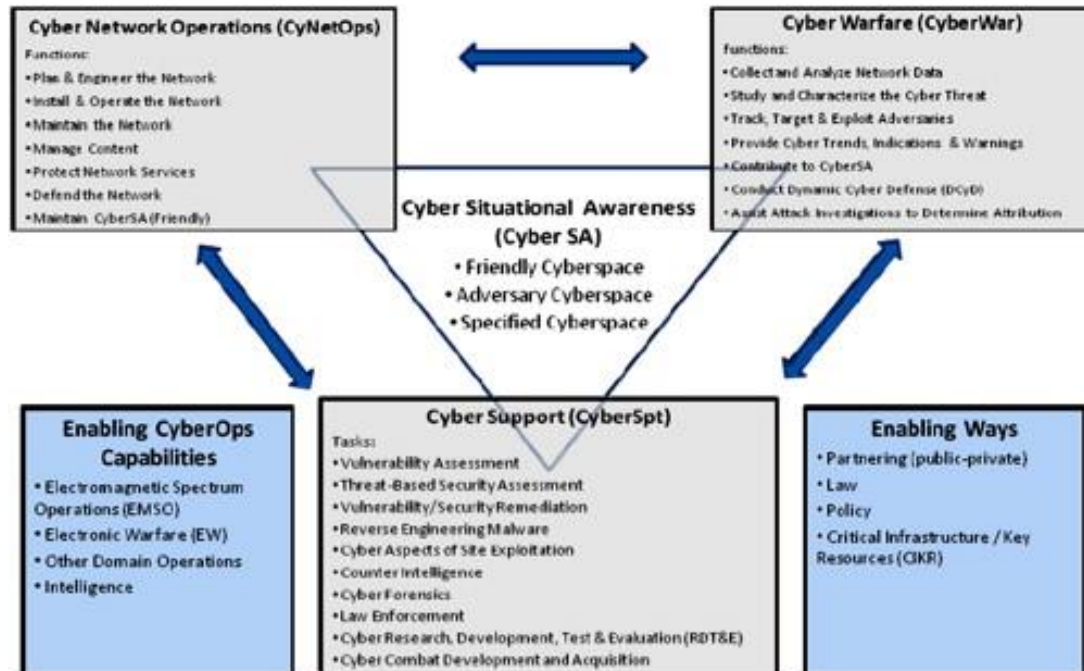
Киберпространството действа като главно бойно поле за прилагането на новите доктринални идеи за постигане на възпиращи операции

Стратегическото водене на съревнование между Великите Сили е основано на идеята за доминиране в киберпространството



Our current **National Military Strategy (NMS)**, dated September 1997, classifies information warfare as a "special concern" under the heading of Asymmetric Challenges.²⁹ In addition to identifying information superiority as a key enabler for Joint Vision 2010, the NMS also states: "Joint Vision 2010 rests on the foundations of information superiority and technological innovation."³⁰ The NMS expands upon the Joint definition of information superiority by specifying:

Основи, поставени през 90те – Обединена
 визия 2010
 Бащата на ТАО - James R. Gosler, Кръстникът
 на американската кибервойна



Joint Vision
 2010



Най – яркия пример за стратегически важно разбиране на киберпорстранството като основен източник на възпиране, освен САЩ, е може би Китай.

Чрез включването и възприемането на киберпространството като неразделен компонент на военната си доктрина Китай продължава своята активна отбрана и работи за междувременното ускоряване на революцията за военното дело.

Тези всеобхватни усилия за управление и регулиране на информационния поток се характеризират като "информатизирана военна революция".

WANTED BY THE FBI

Conspiring to Commit Computer Fraud; Accessing a Computer Without Authorization for the Purpose of Commercial Advantage and Private Financial Gain; Damaging Computers Through the Transmission of Code and Commands; Aggravated Identity Theft; Economic Espionage; Theft of Trade Secrets



WANG DONG
Aliases: Jack Wang, "UglyGorilla"

SUN KAILIANG
Aliases: Sun Kai Liang, Jack Sun

WEN XINYU
Aliases: Wen Xin Yu, "WinXYHappy", "Win_XY", Lao Wen

HUANG ZHENYU
Aliases: Huang Zhen Yu, "hey_lhx"

GU CHUNHUI
Aliases: Gu Chun Hui, "KandyGoo"

WANTED BY THE FBI

APT 41 GROUP



ZHANG Haoran

TAN Dailin

QIAN Chuan

FU Qiang

JIANG Lizhi

WANTED BY THE FBI

APT 10 GROUP

Conspiracy to Commit Computer Intrusions; Conspiracy to Commit Wire Fraud; Aggravated Identity Theft



ZHU HUA

ZHANG SHILONG

DETAILS

On December 17, 2018, a grand jury in the United States District Court for the Southern District of New York indicted ZHU HUA, aka "Alayos," aka "Godkiller," and ZHANG SHILONG, aka "Baobeilong," aka "Zhang Jianguo," aka "Atreexp," two members of a hacking group known in the cybersecurity community as Advanced Persistent Threat 10 (the "APT 10 Group"), with conspiracy to commit computer fraud, wire fraud, and aggravated identity theft. The defendants worked for Huaying Haitai Science and Technology Development Co., Ltd., China, and they acted in association with the Chinese Ministry of State Security's Tianjin State Security Bureau.

WANTED BY THE FBI

CHINESE PLA MEMBERS, 54TH RESEARCH INSTITUTE

Computer Fraud; Economic Espionage; Wire Fraud; Conspiracy to Commit Computer Fraud; Conspiracy to Commit Economic Espionage; Conspiracy to Commit Wire Fraud



Wang Qian

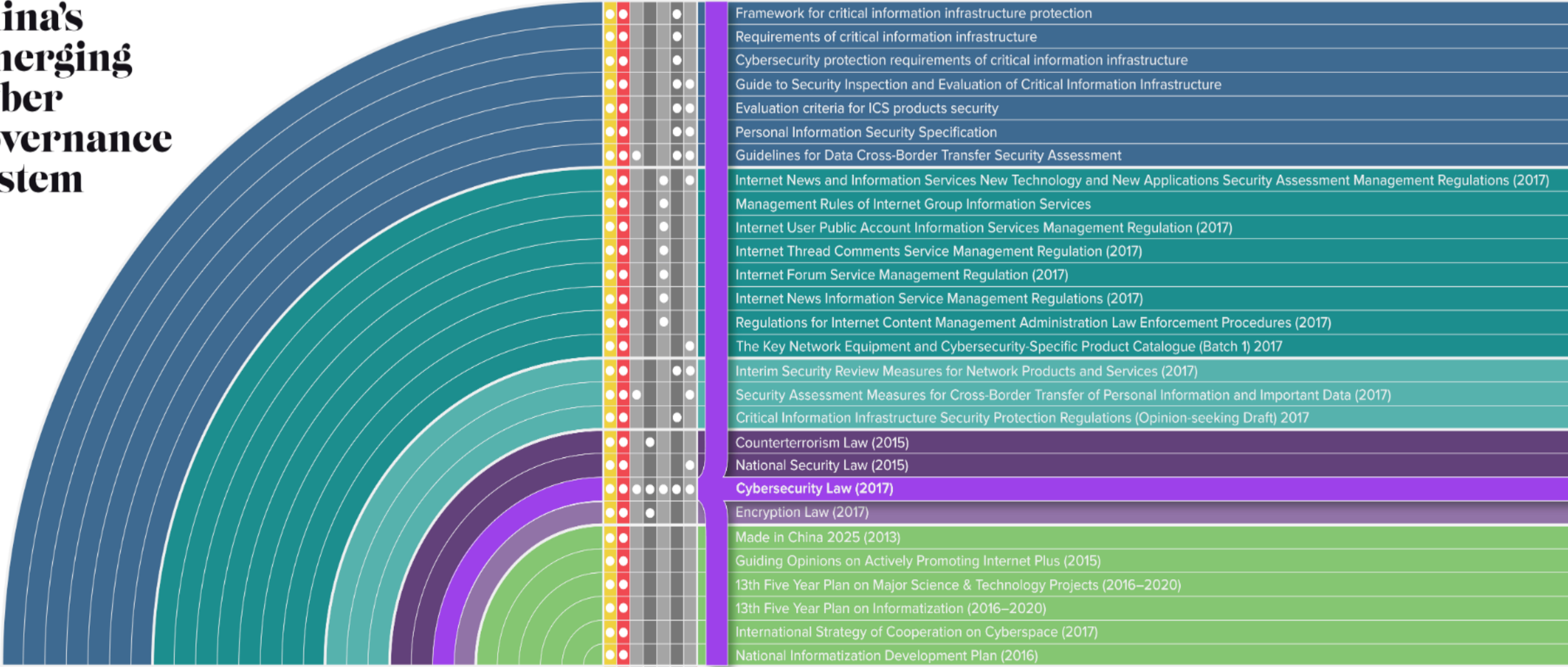
Xu Ke

Liu Lei

Wu Zhiyong

CAUTION

China's Emerging Cyber Governance System



- Framework for critical information infrastructure protection
- Requirements of critical information infrastructure
- Cybersecurity protection requirements of critical information infrastructure
- Guide to Security Inspection and Evaluation of Critical Information Infrastructure
- Evaluation criteria for ICS products security
- Personal Information Security Specification
- Guidelines for Data Cross-Border Transfer Security Assessment
- Internet News and Information Services New Technology and New Applications Security Assessment Management Regulations (2017)
- Management Rules of Internet Group Information Services
- Internet User Public Account Information Services Management Regulation (2017)
- Internet Thread Comments Service Management Regulation (2017)
- Internet Forum Service Management Regulation (2017)
- Internet News Information Service Management Regulations (2017)
- Regulations for Internet Content Management Administration Law Enforcement Procedures (2017)
- The Key Network Equipment and Cybersecurity-Specific Product Catalogue (Batch 1) 2017
- Interim Security Review Measures for Network Products and Services (2017)
- Security Assessment Measures for Cross-Border Transfer of Personal Information and Important Data (2017)
- Critical Information Infrastructure Security Protection Regulations (Opinion-seeking Draft) 2017
- Counterterrorism Law (2015)
- National Security Law (2015)
- Cybersecurity Law (2017)**
- Encryption Law (2017)
- Made in China 2025 (2013)
- Guiding Opinions on Actively Promoting Internet Plus (2015)
- 13th Five Year Plan on Major Science & Technology Projects (2016–2020)
- 13th Five Year Plan on Informatization (2016–2020)
- International Strategy of Cooperation on Cyberspace (2017)
- National Informatization Development Plan (2016)

DOCUMENT TYPES	STANDARDS*	MEASURES & REGULATIONS	LAWS	STRATEGIES
	<ul style="list-style-type: none"> Final Draft 	<ul style="list-style-type: none"> Final Draft 	<ul style="list-style-type: none"> Final Draft 	<ul style="list-style-type: none"> Final Draft

* Only a fraction of the dozens illustrated here.



China blamed as major backer behind hacking of Australian companies and infrastructure

By political reporter Matthew Doran
Posted 16h ago, updated 9h ago



China Poised to Disrupt US Critical Infrastructure with Cyber-Attacks, Microsoft Warns

James Coker
Deputy Editor, Infosecurity Magazine
Follow @ReporterCoker

Chinese threat actors are positioning themselves to deploy major cyber-attacks against US critical national infrastructure (CNI) in the event of an escalation of hostilities between the two nations.

Microsoft's latest Digital Defense Report (MDDR) observed a rise in Chinese state-affiliated actors, such as Circle Typhoon and Volt Typhoon, targeting sectors like transportation, utilities, medical infrastructure and telecommunications.

These campaigns may be intended to enable China to disrupt critical infrastructure

You may also like

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Microsoft: Russia Dominates State-Sponsored Attacks
- NEWS 16 FEB
Microsoft: IT SolarWinds

Asia | China | India

Microsoft: Chinese hackers hit key US bases on Guam

© 25 May



Chinese hackers are accused of breaching US military bases on Guam

By Hannah Ritchie
BBC News

China hacked Japan's sensitive defense networks, officials say

Tokyo has strengthened its defenses after a major cybersecurity breach, but gaps remain that could slow info sharing with the Pentagon

By Ellen Nakashima
Updated August 8, 2023 at 2:36 a.m. EDT | Published August 7, 2023 at 3:26 p.m. EDT



Securing Taiwan's Satellite Infrastructure Against China's Reach

Gil Baram | Tuesday, November 14, 2023, 10:14 AM

As Taiwan faces the looming threat of a Chinese invasion, the need to fortify its satellite infrastructure becomes ever more urgent.



China

U.S. warns China could hack infrastructure, including pipelines, rail systems

By Raphael Satter, Zeba Siddiqui and James Pearson

May 26, 2023 12:05 PM GMT+3 · Updated 6 months ago



May 25 (Reuters) - The U.S. State Department warned on Thursday that China was capable of launching cyber attacks against critical infrastructure, including oil and gas pipelines and rail systems, after researchers discovered a Chinese [hacking group](#) had been spying on such networks.

A multi-nation alert issued Wednesday revealed the Chinese cyber-espionage campaign had been aimed at military and government targets in the United States.

The Chinese government has rejected assertions that its spies are going after Western targets, calling the warning issued by the United States and its allies a "collective disinformation campaign."

U.S. officials said they were still in the process of getting their arms around the threat.

"We've had at least one location that we didn't know about since the hunt guide was released come forward with data and information," Rob Joyce, the U.S. National Security Agency's (NSA) cybersecurity director, told Reuters. The agency disclosed technical details earlier to help critical service providers detect

November 6, 2023 | The Cipher Brief

Defense Department Report Highlights Cyber Threat from China

RADM (Ret.) Mark Montgomery
CCTI Senior Director and Senior Fellow

Jiwon Ma
Program Analyst

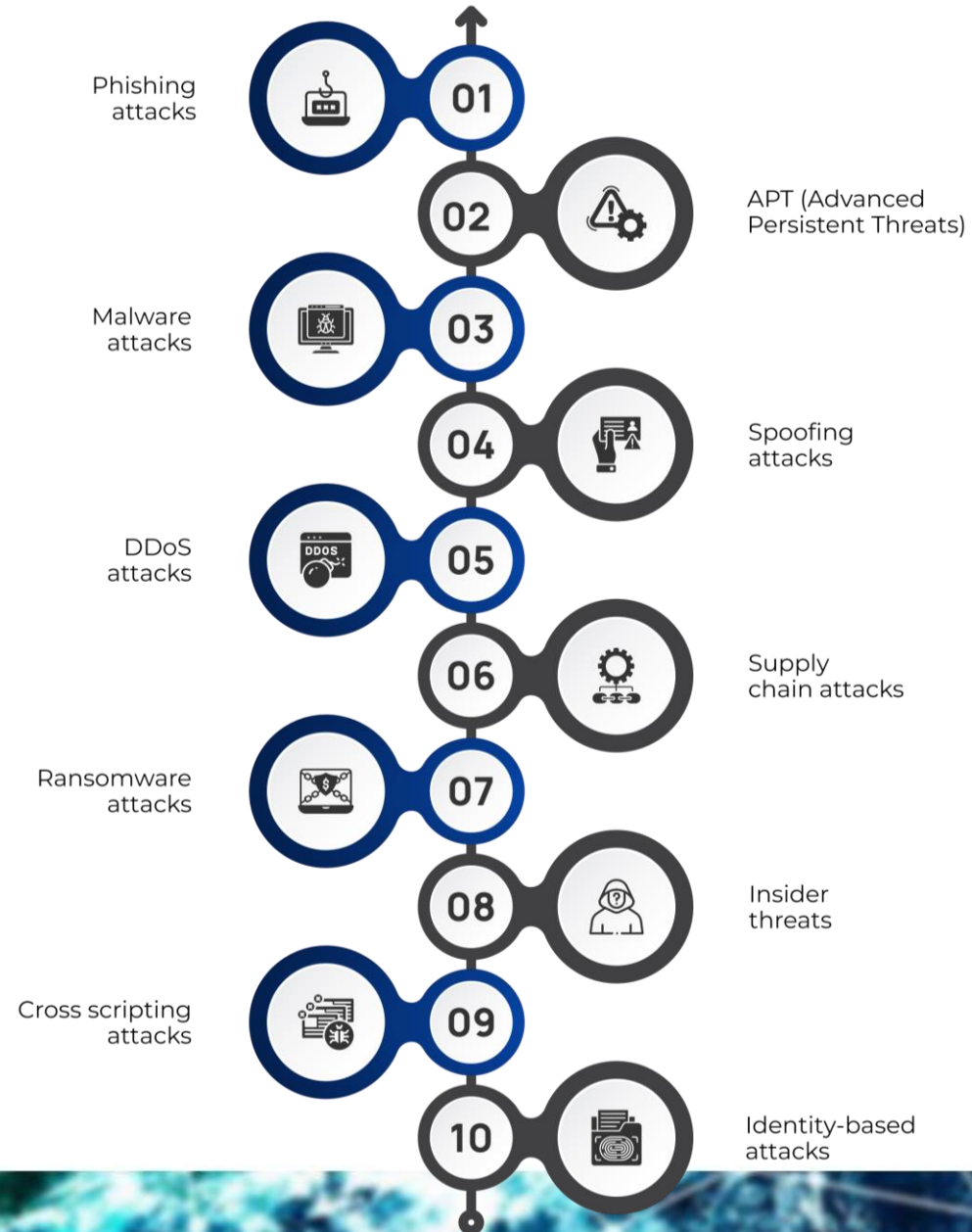


to analysis

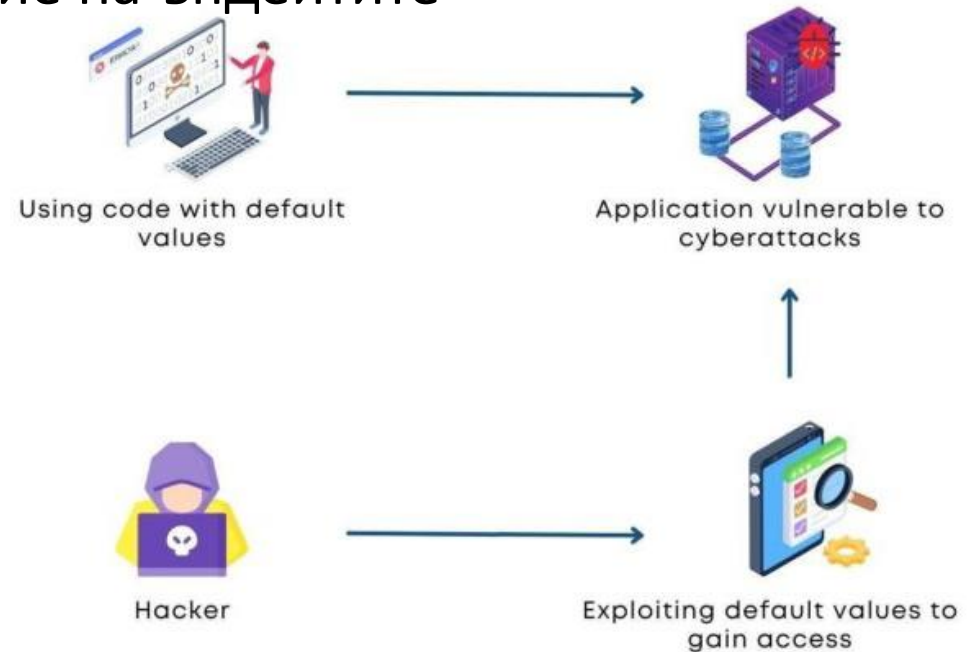
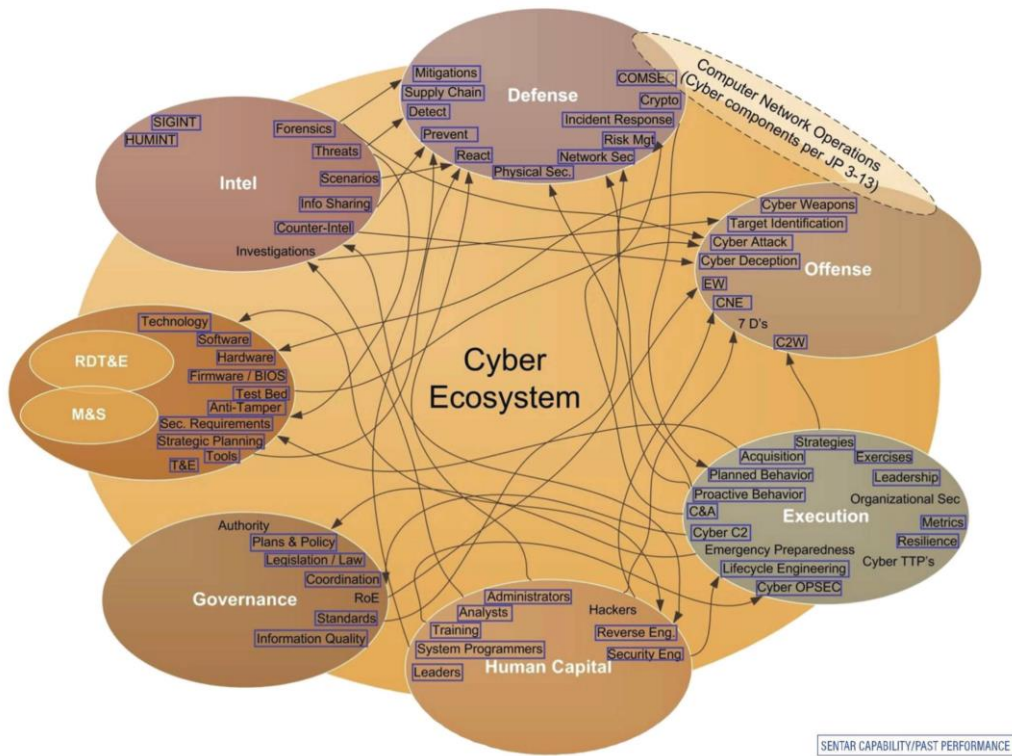
Дефиниране на проблемите



ТИПОВЕ АТАКИ



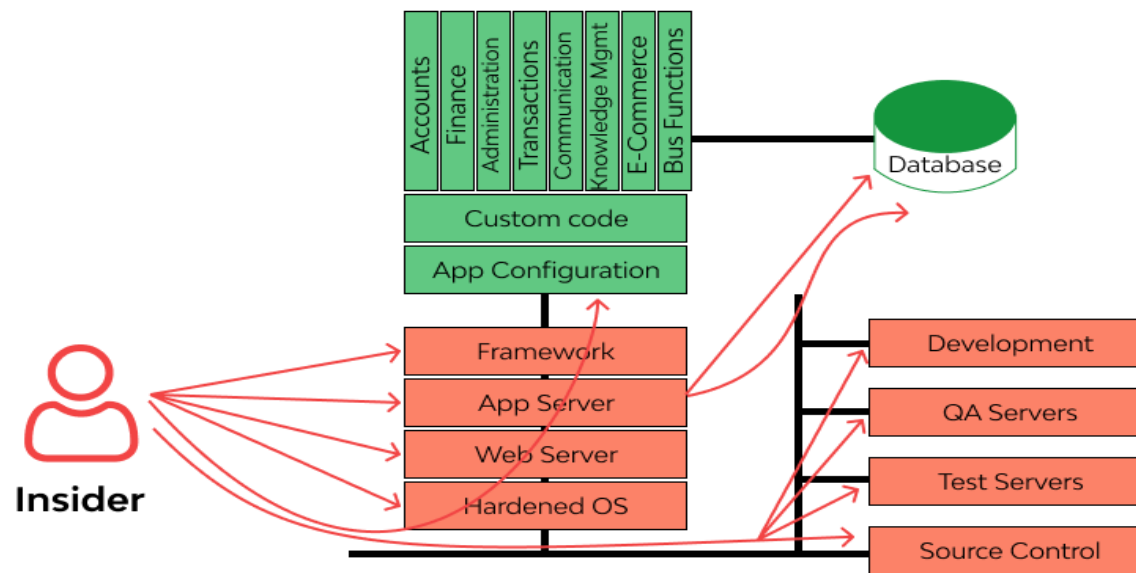
1. Конфигурации по подразбиране на софтуер и приложения
2. Неправилно разделяне на привилегиите на потребителите/администраторите
3. Недостатъчно наблюдение на вътрешната мрежа
4. Липса на мрежова сегментация
5. Лошо управление на ъпдейтите



SECURITY MISCONFIGURATION

- 6. Заобикаляне на контрола за достъп до системата
- 7. Слаби или неправилно конфигурирани методи за многофакторно удостоверяване (MFA)
- 8. Недостатъчни списъци за контрол на дос (ACL) на мрежови споделяния и услуги
- 9. Лоша киберхигиена на удостоверенията
- 10. Неограничено изпълнение на код

Security Misconfiguration



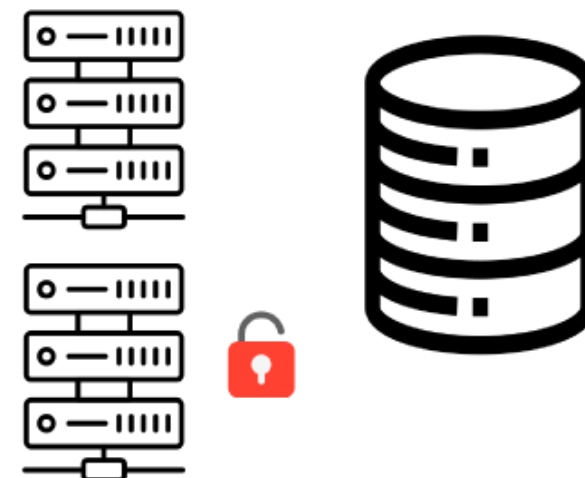
Attacker

1. The attacker Gets Access to an Internal Network



2. The attacker Determines Which Devices are Using Default Credentials

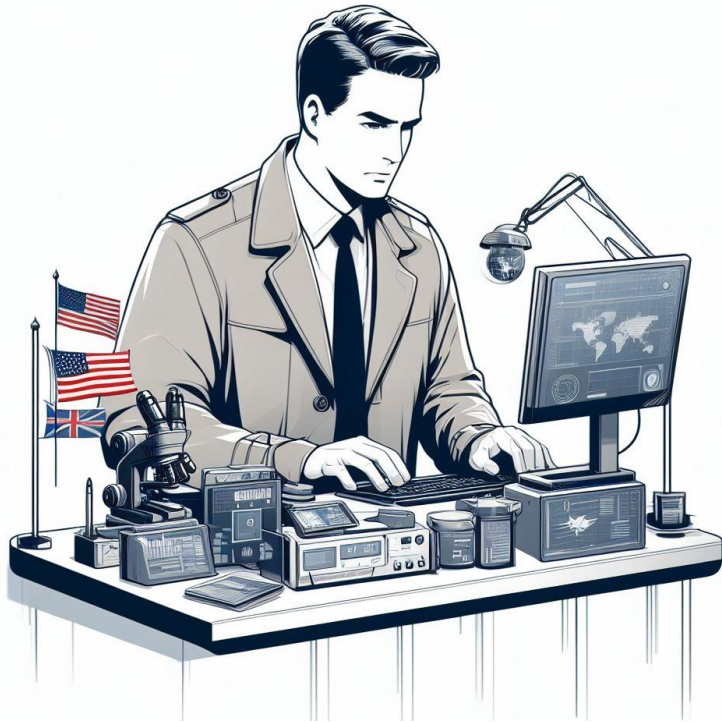
3. The attacker Takes Over All Vulnerable Devices with Default Credentials



Internal Resources

Ограничаване на проблемите

Когато една държава изостава в научните постижения и не разполага с капацитет да постигне сравними резултати, тя прибегва до неконвенционални методи, включително промишлен шпионаж и вътрешни атаки.



Агентите, участващи в тези операции, са в постоянна опасност и най-малката грешка може да доведе до тяхното излагане на риск. Ситуацията обаче се промени с цифровизацията на научния сектор.

News > World > Europe

Russian spy 'stole Oxford/AstraZeneca vaccine blueprint and used it to develop Sputnik jab'

UK security services have allegedly told ministers they now have solid proof an agent stole vital information

Chiara Giordano • Monday 11 October 2021 15:33 BST • Comments



Powered by PIXELS-AI



SECURITY / POLICY / TECH

23andMe says it's looking into another possible data leak



Photo by Amelia Holowaty Krales / The Verge

The hacker that the last 23andMe they've obtained genetic informati

By Emma Roth, a news writer who covers crypto, social media, and much more. Pre MJLO.

Oct 19, 2023, 6:49 PM GMT+3 | 6



23andMe is investigating reports of a new data leak involving millions of user records. On Wednesday, *TechCrunch* reported that a hacker claims to have leaked 4 million genetic profiles belonging to people in Great Britain, along with "the wealthiest people living in the U.S. and Western Europe."

The hacker, who goes by "Golem," is the same one that stole 1 million lines of genetic data from 23andMe earlier this month, according to

- 1 **Fri**
- 2 **So**
- 3 **Mon**

Technology Cybersecurity



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China theft of technology is biggest law enforcement threat to US, FBI says

- Christopher Wray says China using 'any means necessary'
- Chinese theft of US trade secrets costing '\$300bn-\$600bn a year'

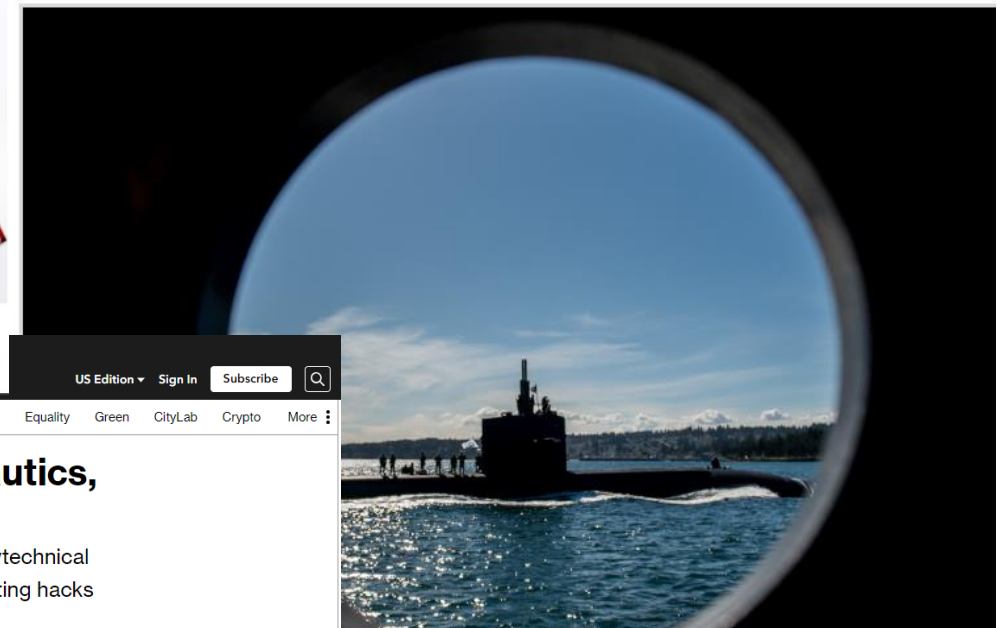


A lamp post outside the White House is adorned with Chinese and US national flags in Washington. Photograph: Jewel Samad/AFP via Getty Images

The FBI on Thursday identified China as the biggest law enforcement threat to the United States, and its director said Beijing was seeking to steal

By: Sam LaGrone

June 8, 2018 4:26 PM • Updated: June 8, 2018 7:09 PM



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China Says US Hacked Aeronautics, Space Research University

- NSA is accused of cyberattacks on Northwestern Polytechnical
- China has been more direct in accusing US of conducting hacks

By Sarah Zheng

September 5, 2022 at 7:15 AM GMT+3

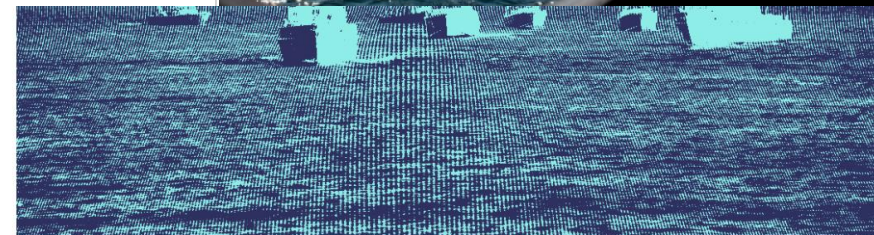
Updated on September 6, 2022 at 2:19 AM GMT+3

Save

This article is for subscribers only.

China accused a US spy agency of hacking a government-funded university with aeronautics and space research programs, in Beijing's latest effort to hit back at Washington's complaints of cybersnooping.

The National Security Agency's Office of Tailored Access Operations carried out the attacks on Northwestern Polytechnical University in Xi'an, China's National Computer Virus Emergency Response Center said in a statement. A team from the center and 360 Security Technology Inc. analyzed the university's information systems after an attack from overseas was reported in June, the center added.



NAVY-ARMY|CISA-FIGURE

Catalin Cimpanu

February 16th, 2022

Government

Nation-state

News

US says Russian hackers breached multiple DOD contractors

The US government said today that Russian state-sponsored threat actors have targeted and breached multiple defense contractors between January 2020 and February 2022.

"Compromised entities have included CDCs [cleared defense contractors] supporting the US Army, US Air Force, US Navy, US Space Force, and DoD and Intelligence programs," US



Satellite hack on eve of Ukraine war was a coordinated, multi-pronged assault

The satellite hack that took the world by storm was more complex than initially thought, according to a Viasat executive.

BY CHRISTIAN VASQUEZ AND ELIAS GROLL • AUGUST 10, 2023



News > Tech

Hackers shut down 2 of the world's most advanced telescopes

By Brett Tingley published August 30, 2023

It's unclear exactly what the nature of the cyberattacks from where they originated.

Comments (12)



Gemini North, located on Maunakea in Hawaii. Gemini North is one half of the International Gemini Observatory, a Program of National Science Foundation's NOIRLab. (Image credit: International Gemini Observatory/NOIRLab/NSF/AURA/P. Horálek (Institute of Physics in Opava))

Some of the world's leading astronomical observatories have reported...

Threat Briefing

Briefing 2: Hackers Target ALMA Observatory with Cyber Attack

By: Joel Francis, Space ISAC – November 15, 2022

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Satellite Turla: APT Command and Control in the Sk

APT REPORTS 09 SEP 2015

9 minute read



AUTHORS

STEFAN TANASE

How the Turla operators hijack satellite Internet links

Have you ever watched satellite television? Were you amazed by the diversity of TV channels and radio stations available? Have you ever looked in wonder at satellite phones or satellite-based Internet connections wondering what makes them tick? What if we told you that there's more to satellite-based Internet connections than entertainment, traffic and weather? Much, much more.

SAFEGUARDING THE US SPACE INDUSTRY



KEEPING YOUR INTELLECTUAL PROPERTY IN ORBIT

THREAT

According to US financial sector estimates, the global space economy is projected to grow from \$469 billion in 2021 to more than \$1 trillion by 2030. The United States is the main driver of this growth through its role as a global leader in space investment, research, innovation, and production. Space is fundamental to every aspect of our society, including emergency services, energy, financial services, telecommunications, transportation, and food and agriculture. All rely on space services to operate.

Foreign intelligence entities (FIEs) recognize the importance of the commercial space industry to the US economy and national security, including the growing dependence of critical infrastructure on space-based assets. They see US space-related innovation and assets as potential threats as well as valuable opportunities to acquire vital technologies and expertise. FIEs use cyberattacks, strategic investment (including joint ventures and acquisitions), the targeting of key supply chain nodes, and other techniques to gain access to the US space industry.

IMPACT

FIE efforts to target and exploit the US space industry can harm US commercial firms and broader US national and economic security in several ways.

Global Competition

- Siphoning intellectual property and other proprietary data from US space firms for the benefit of foreign powers' national security programs.
- Leapfrogging innovation that costs US space firms substantial time and resources to generate.
- Using state-backed resources and unfair business practices to disadvantage US space firms.
- Harming US corporate reputations by proliferating counterfeit products or falsely authenticated reproductions.

National Security

- Collecting sensitive data related to satellite payloads.
- Disrupting and degrading US satellite communications, remote sensing, and imaging capabilities.
- Degrading the United States' ability to provide critical services during emergencies.
- Identifying vulnerabilities and targeting US commercial space infrastructure during conflict.

Economic Security

- Harming the US commercial space sector by causing losses of revenue and global market competitiveness.
- Exploiting critical resources and supply chain dependencies.
- Influencing international laws, norms, and host country business regulations governing space to disadvantage US space firms.

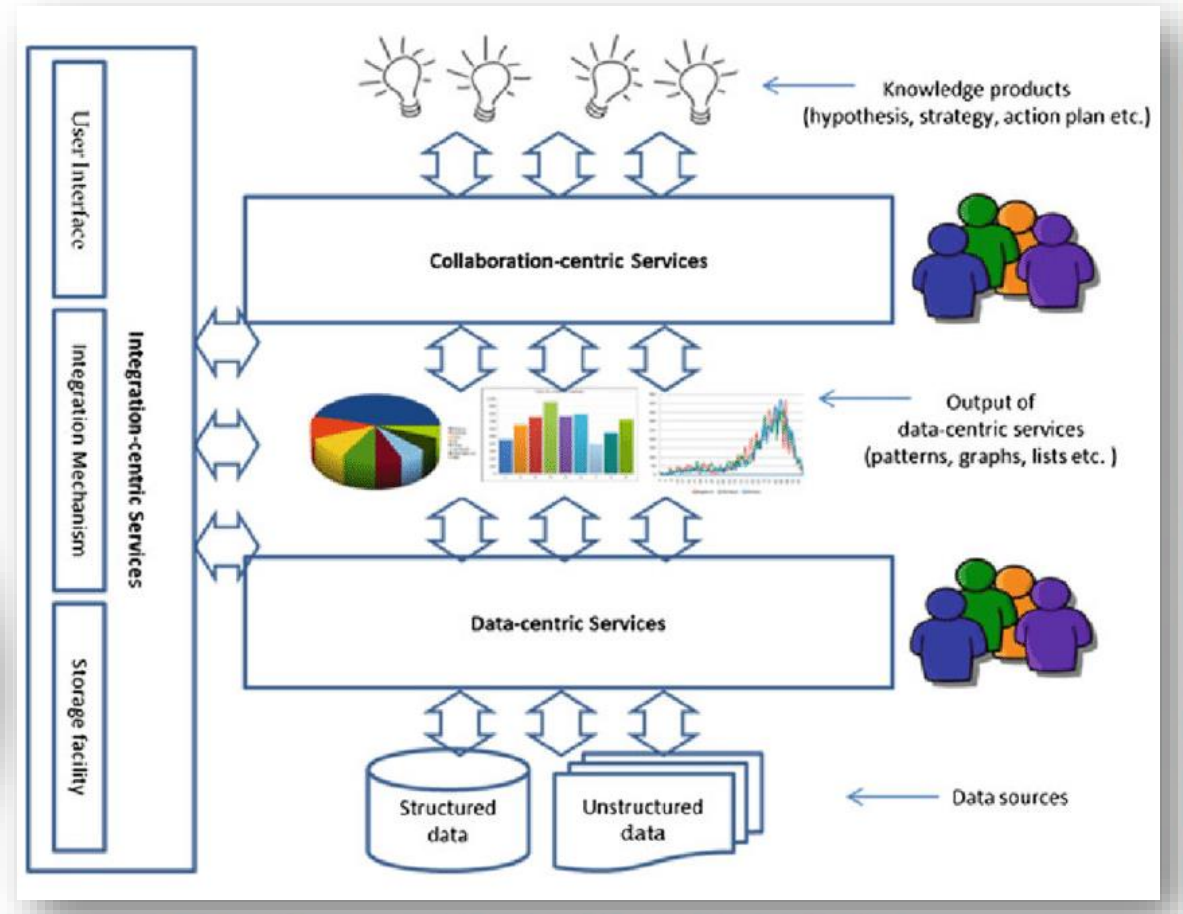
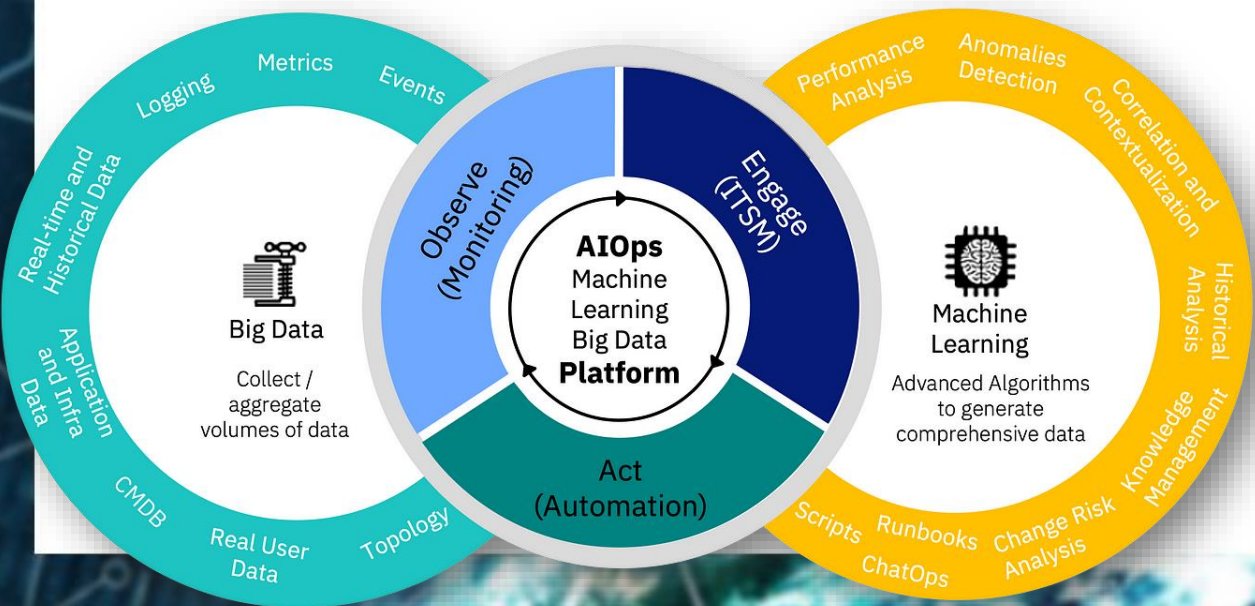
SPACE EQUITY INVESTMENT 2013-2023 (Q2)



Source: <https://www.spacecapital.com/quarterly>

РОЛЯТА НА ГОЛЕМИТЕ ЕЗИКОВИ МОДЕЛИ И ГОЛЕМИТЕ ДАННИ

Големите езикови модели са усъвършенствани системи за изкуствен интелект, които се обучават върху големи обеми от текстови данни, за да разбират моделите и връзките между думи и фрази.



LLM имат широк спектър от приложения и помагат за решаването на някои от най-сложните проблеми в света. Те могат да разчитат, пишат, кодират и изчисляват, подобрявайки човешката креативност и продуктивност в различни индустрии.

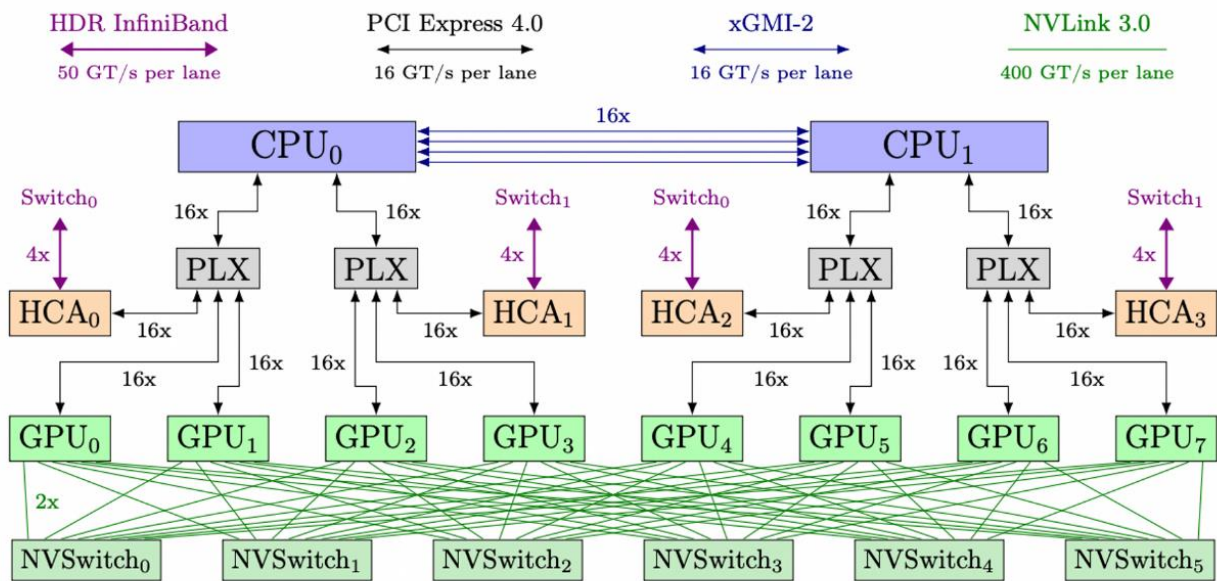
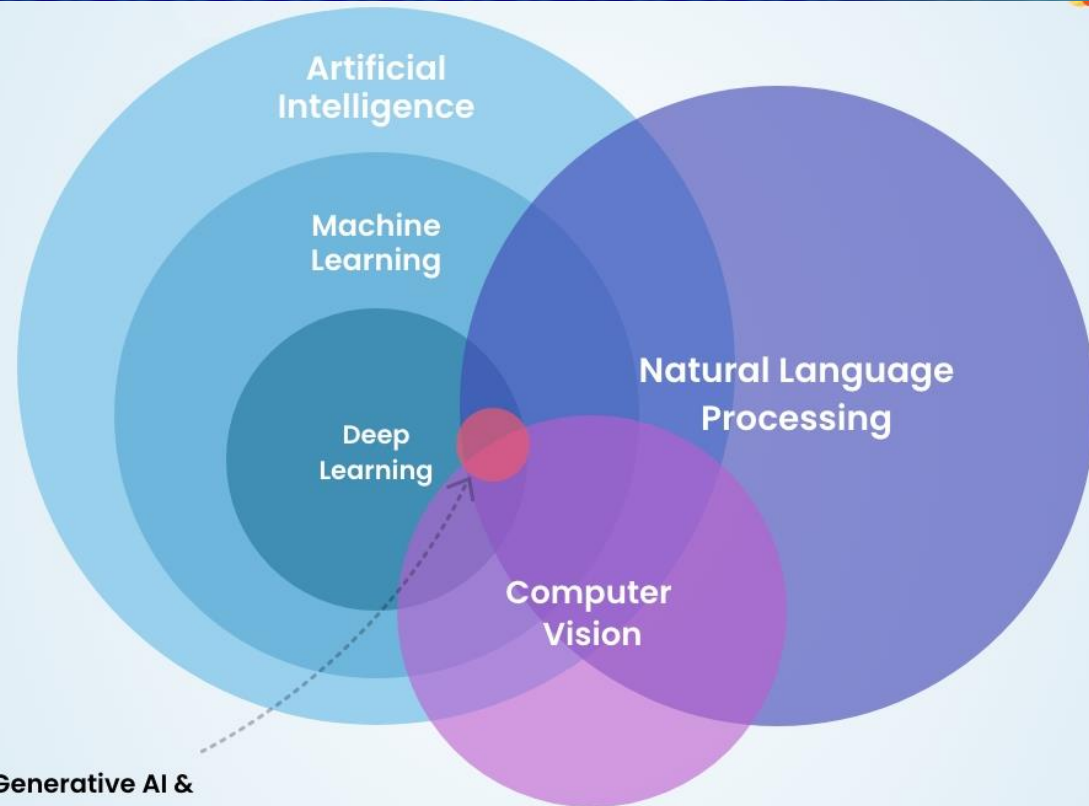
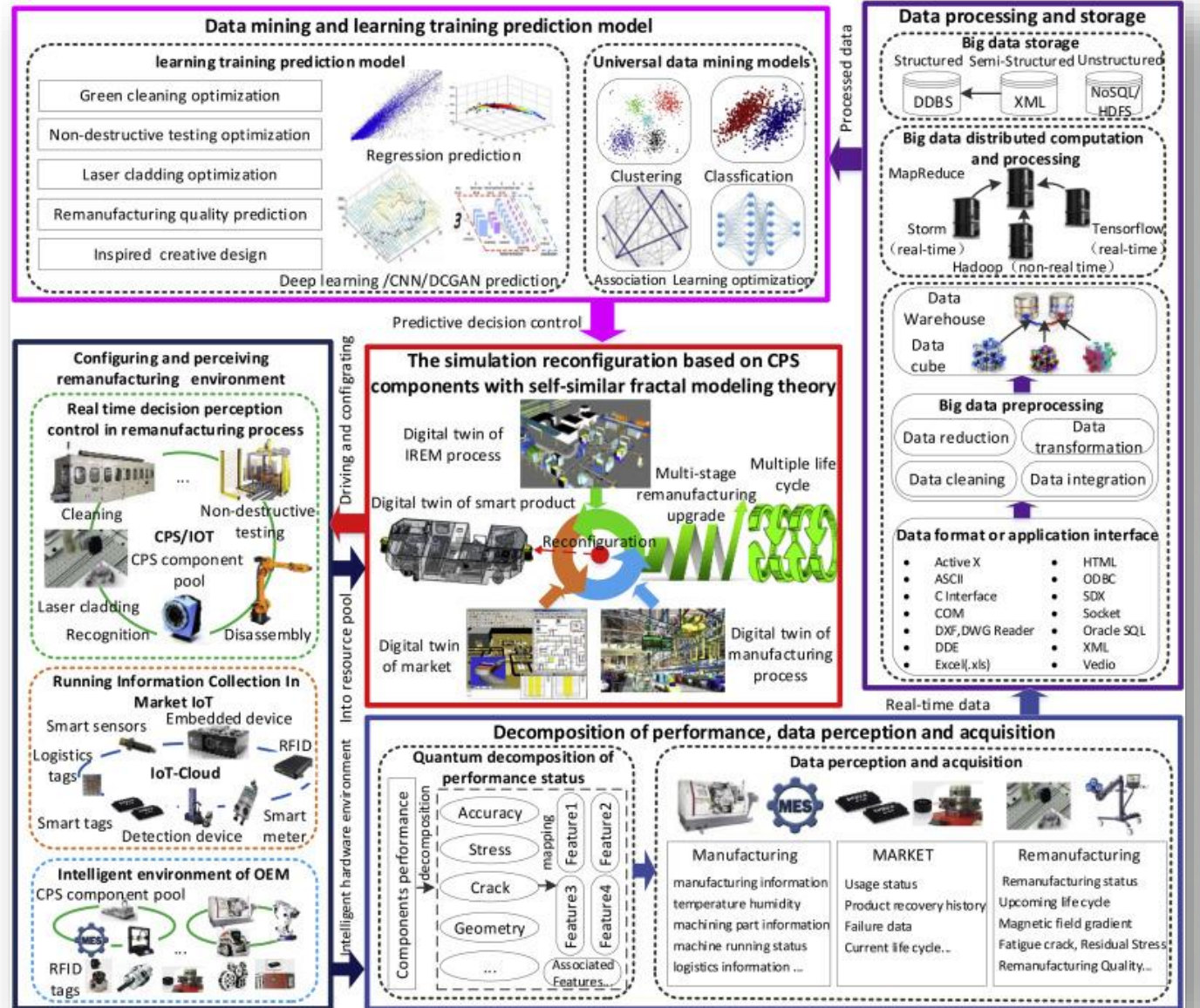
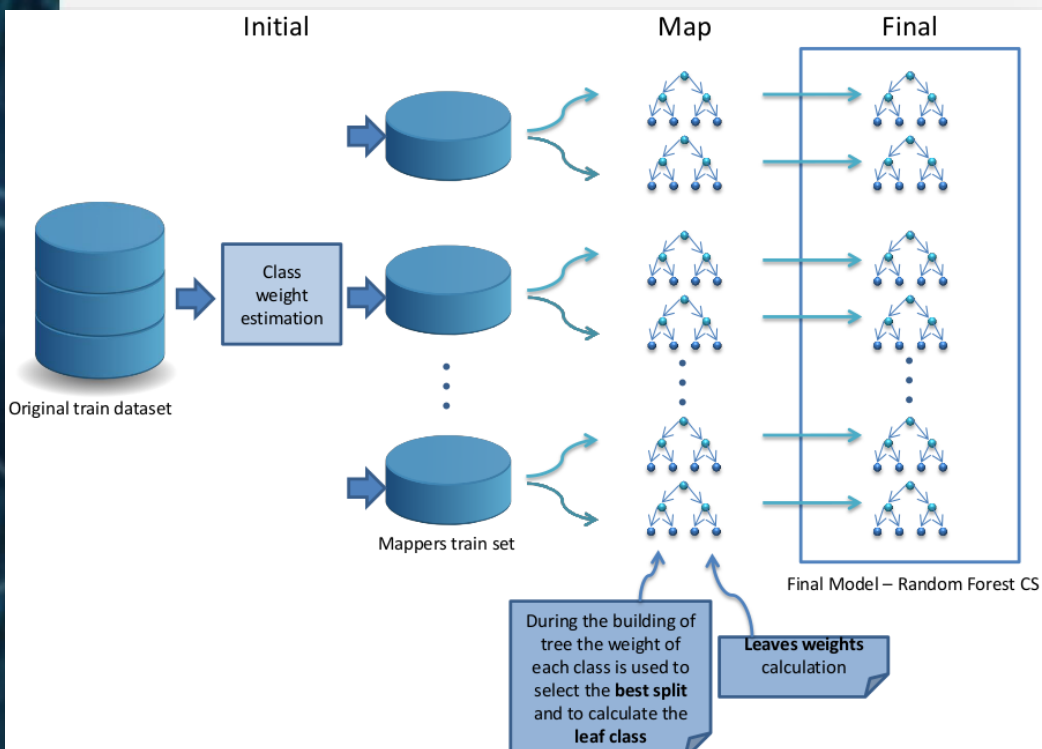


Figure 2: Architecture diagram of a single training node.

Generative AI & Large language Models

Big data, от друга страна, се отнася до изключително големи масиви от данни, които могат да бъдат анализирани изчислително, за да се разкрият модели, тенденции и асоциации.

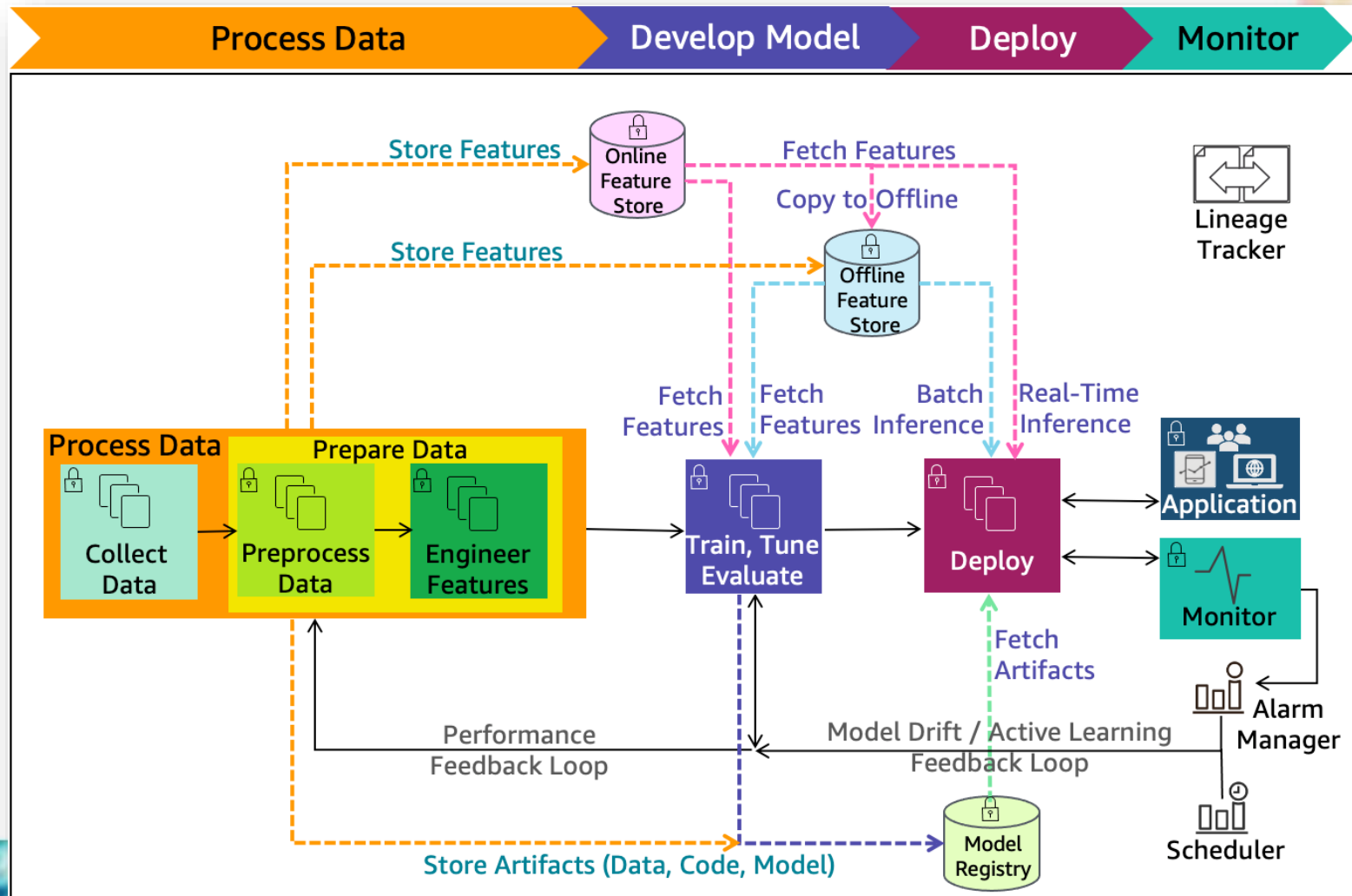
Големите данни обикновено се характеризират със своя обем, скорост и разнообразие.



Изкуствения интелект и Cyber kill chain. Основи на офанзивните възможности като начин за защита.

Стъпките за разработване на кибератаки и зловреден софтуер следват модела Cyber Kill Chain, създаден от Lockheed Martin.

Основните стъпки в тяхното развитие се състоят от разузнаване, милитаризиране на информацията, доставка и експлоатация, инсталиране, командване и контрол и атака над самата цел.



THE CYBER KILL CHAIN

Reconnaissance

Delivery

Installation

Actions on Objectives



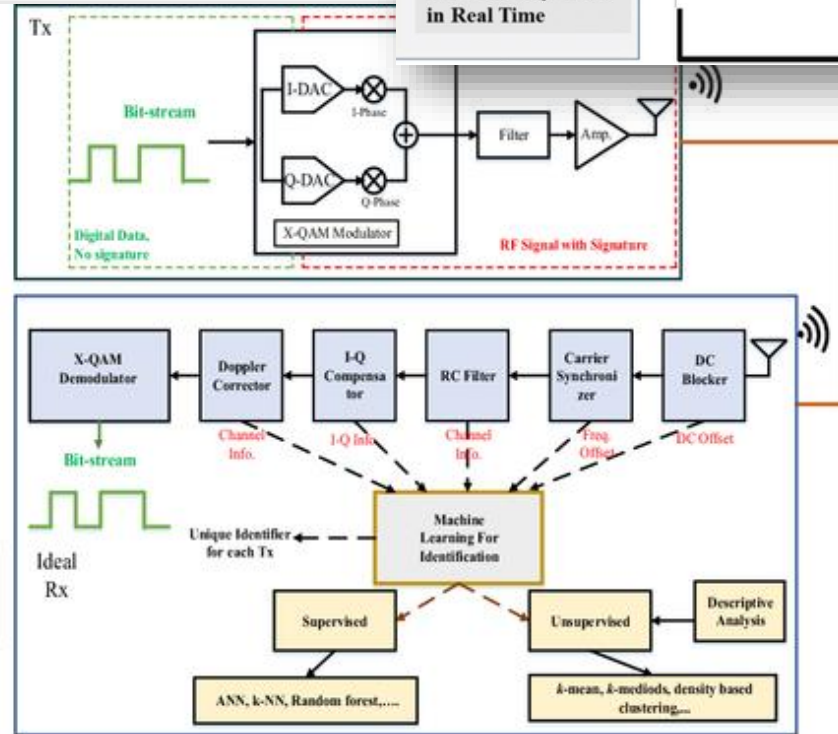
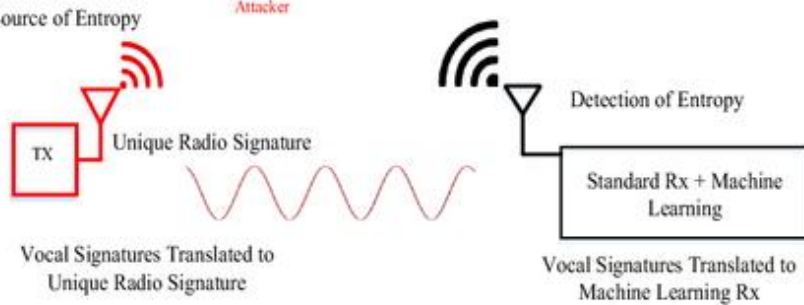
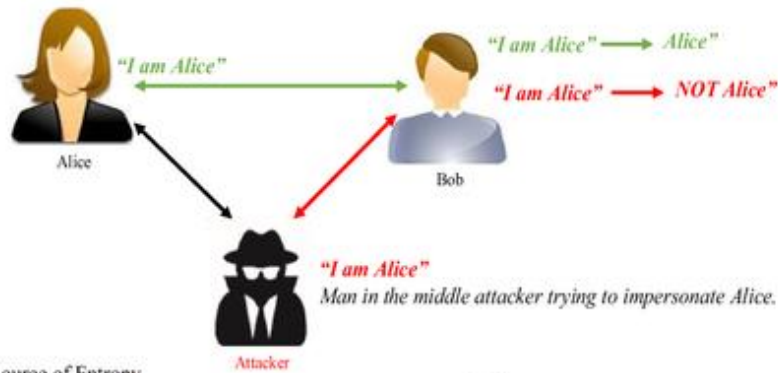
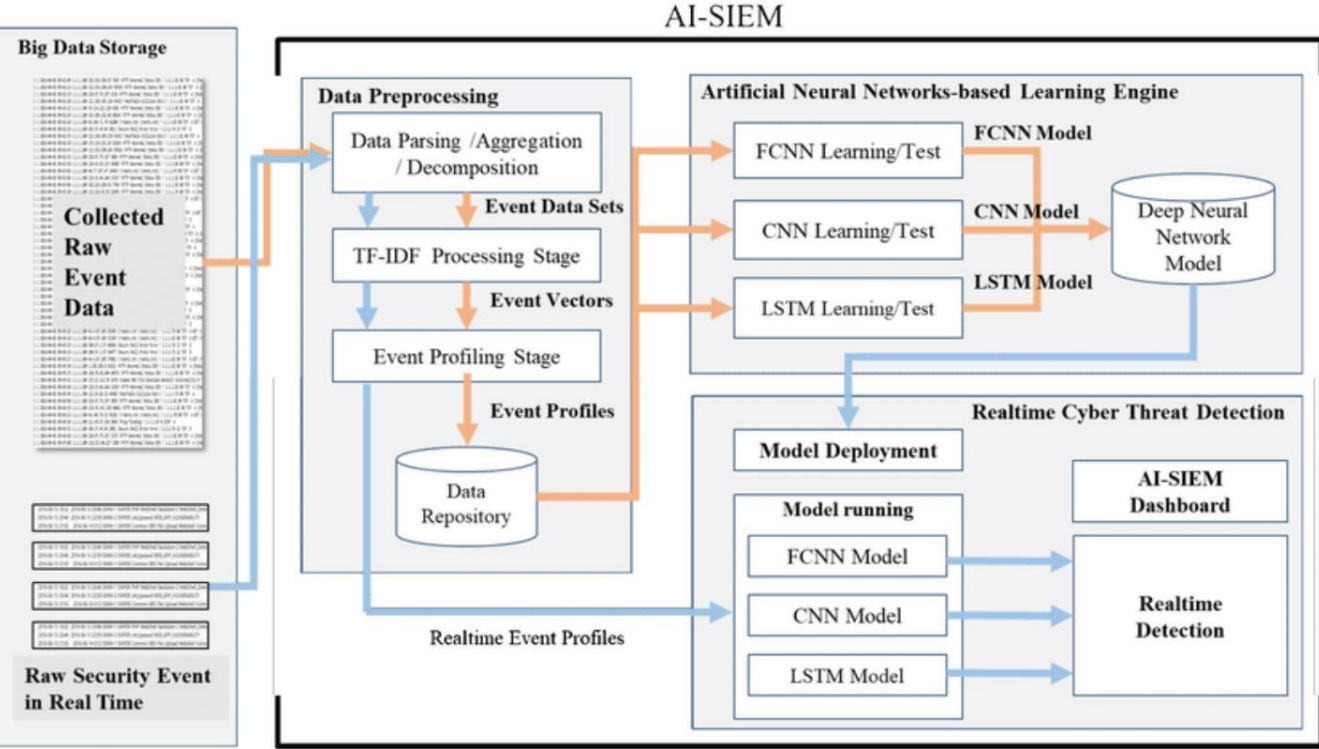
Weaponization

Exploitation

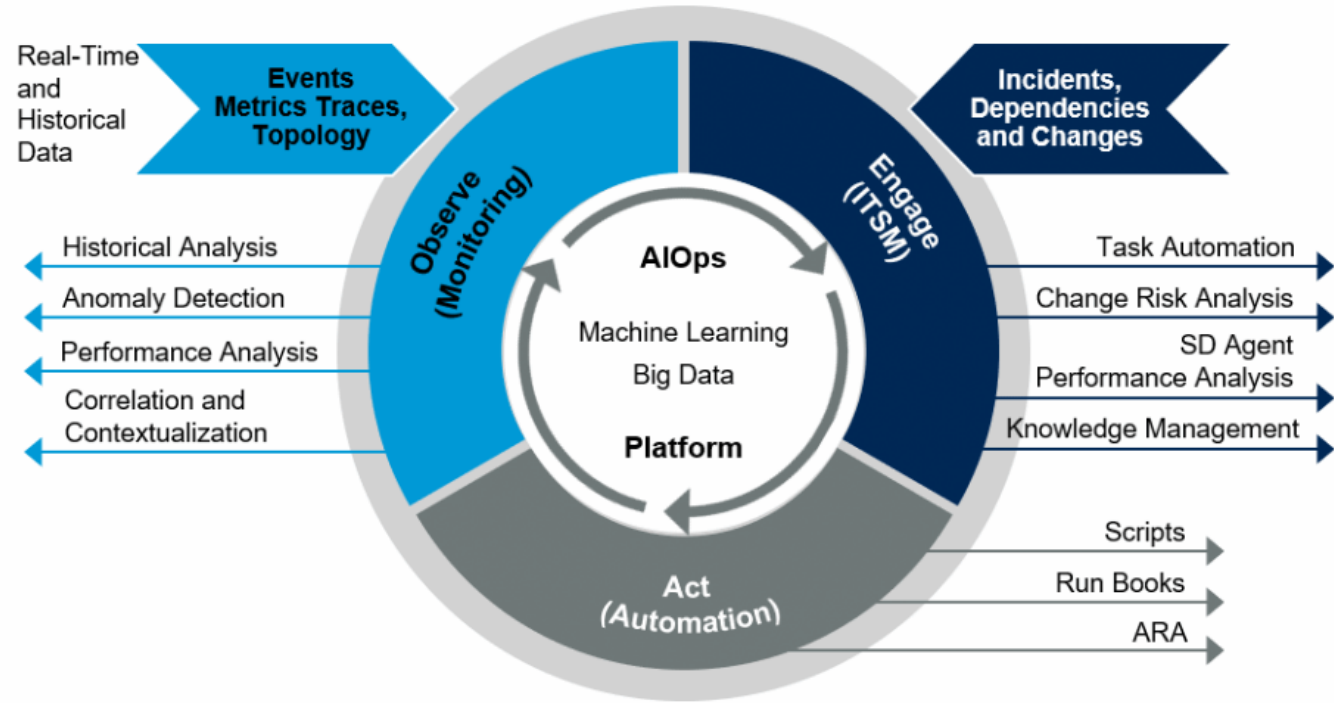
Command and Control



Чрез включването на възможностите на ИИ във всеки етап от веригата Cyber Kill Chain нападателите могат да разработват по-сложни и целенасочени атаки, а защитниците могат да подобрят своите възможности за откриване и реагиране, за да изпреварят възникващите заплахи.



AIOps Platform Enabling Continuous Insights Across IT Operations Monitoring (ITOM)

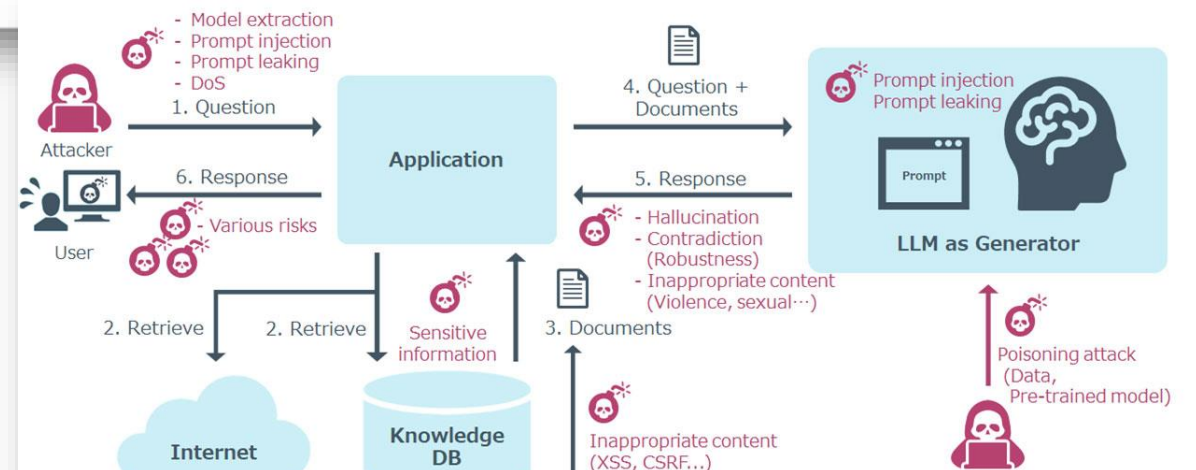


Source: Gartner
ID: 378587

В офанзивен план ИИ може да се използва за автоматизиране на кибератаките, което ги прави по-бързи и по-ефективни.

Той може да се използва и за идентифициране на уязвимости в целевите системи и за разработване на нови методи за атака.

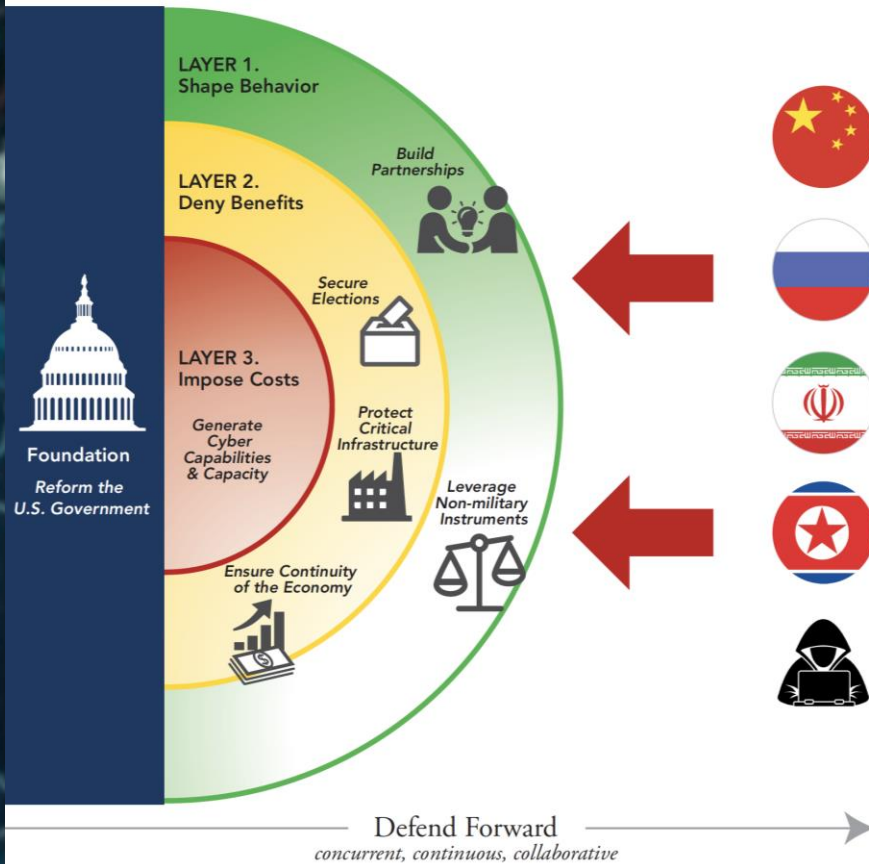
От страна на отбраната ИИ може да се използва за откриване и реагиране на киберзаплахи в реално време, като по този начин се подобрява скоростта и ефективността на киберзащитата.



(Numbers 1 to 6 indicate the flow of responses when asking questions to the generative AI)

U.S. CYBER STRATEGY 2018

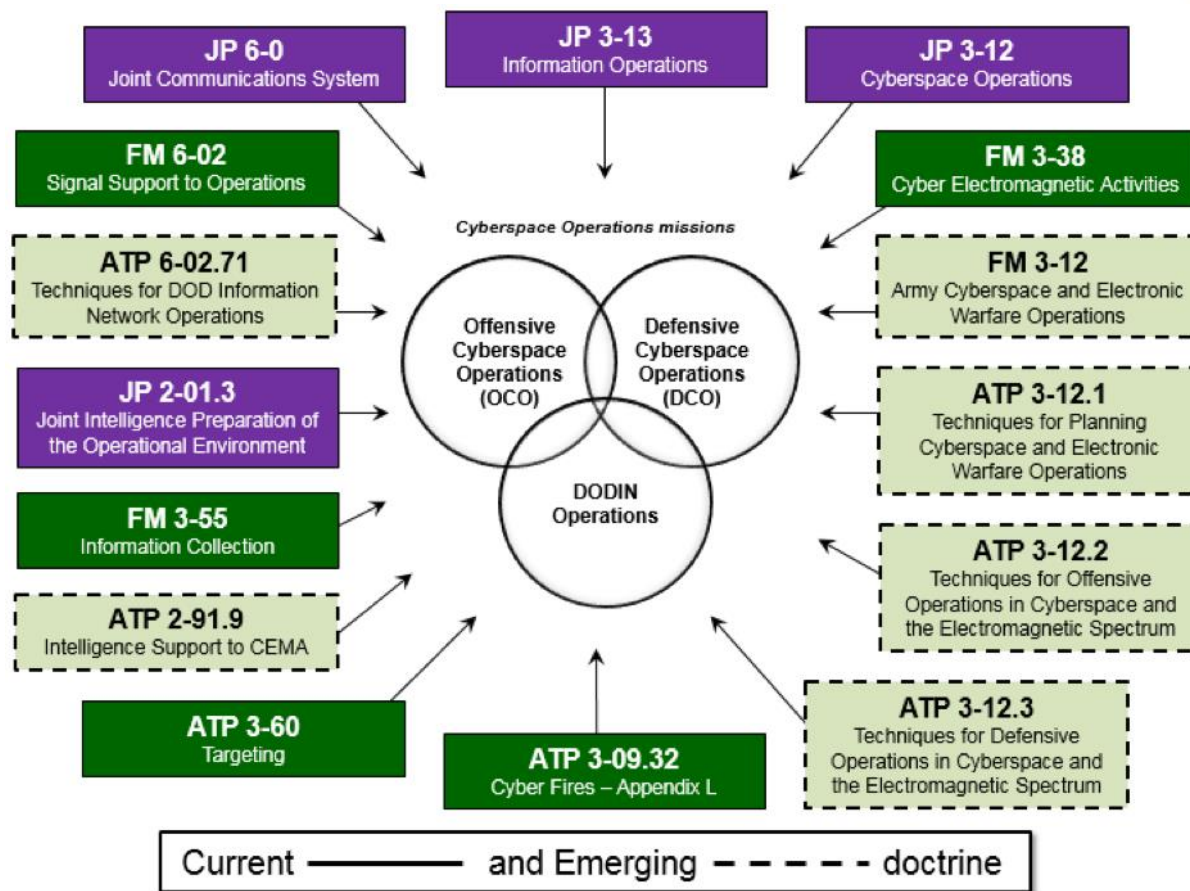
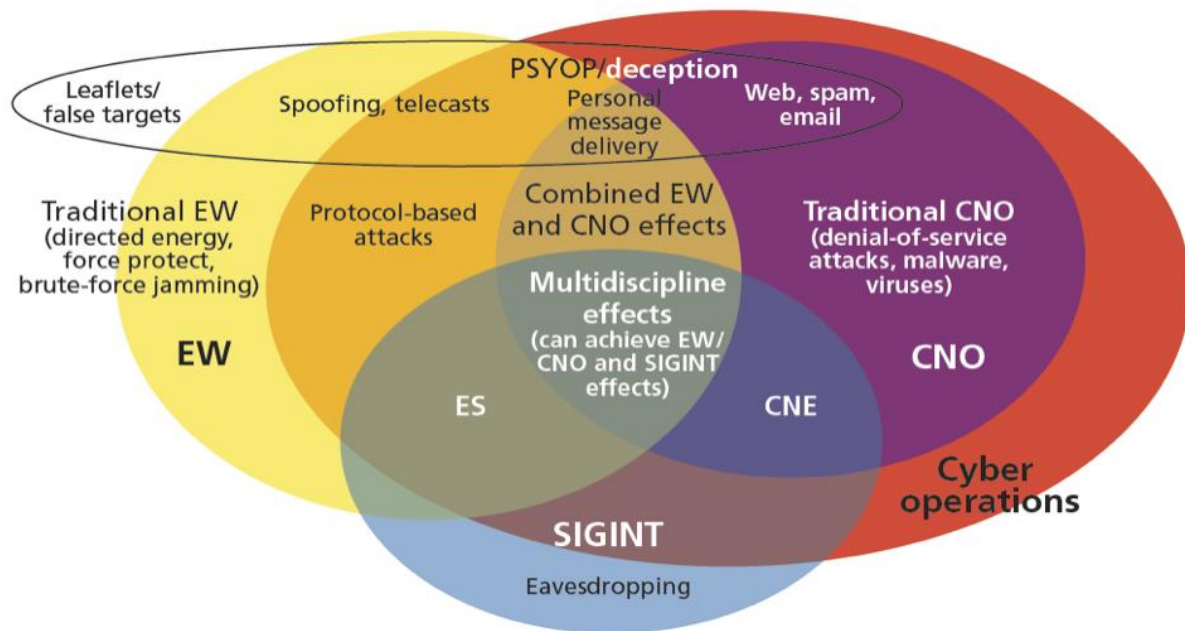
Layered Cyber Deterrence



Тази стратегия предостави по-големи правомощия на киберкомандването и подчерта ключови принципи като **defend forward, persistent engagement and proactive deterrence**

Този подход надхвърли фокуса, който беше насочен единствено към .gov и .mil, и обхвана по-широка перспектива - граждански мрежи, критична инфраструктура, системи на трети страни и всичко, свързано с нормалното функциониране на страната.

Офанзивните действия срещу противниците са стратегически насочени към разрушаване или саботиране на инфраструктурата, която противниците използват, за да атакуват Съединените щати.



ОПЕРАЦИЯ СИЯЙНА СИМФОНИЯ



FREEDOM OF
INFORMATION ACT
(FOIA)

Your right to know

**OH, THAT INFO? THAT'S
FOR ME TO KNOW**



AND FOIA TO FIND OUT.



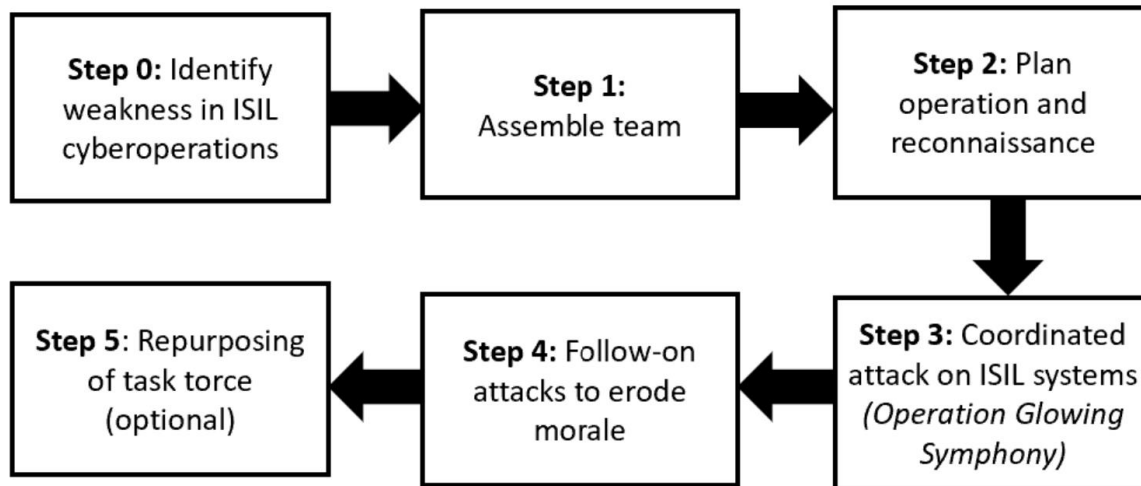
Operation GLOWING SYMPHONY *J3 AAR Observations*

22 November 2016

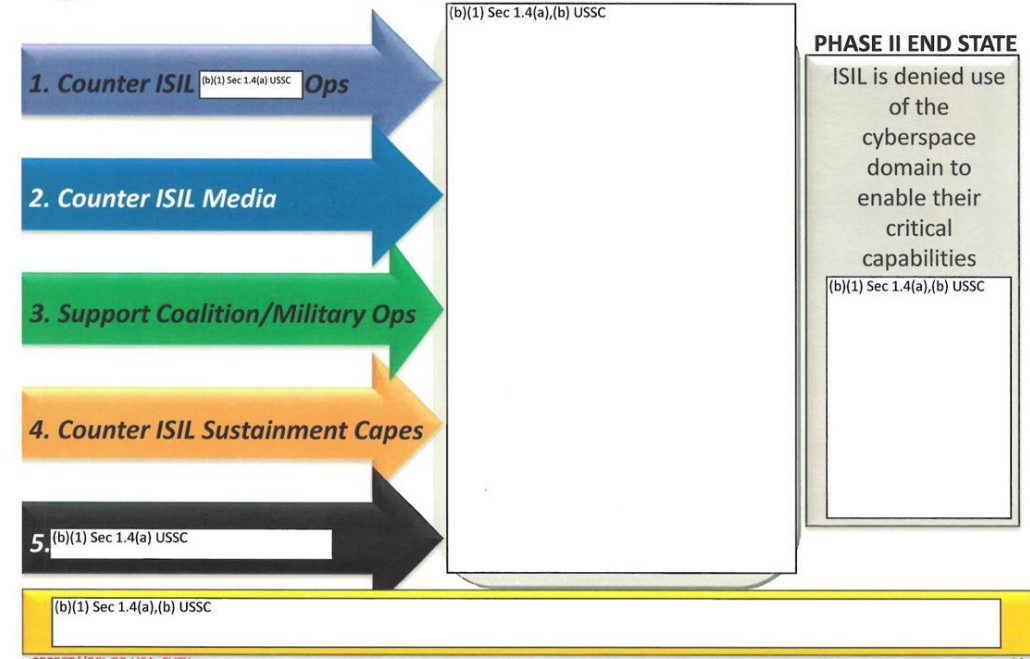
The overall classification of this briefing is: ~~TOP SECRET//SI//REL TO USA, FVEY~~

Операция „Сияйна симфония“ послужи като първи прототип за разработване на концепцията за новите операции на САЩ в киберпространството.

Тази операция имаше конкретната цел да разруши напълно медийната пропагандна машина на „Ислямска държава“.



Lines of Effort (LOEs)



Операция „Сияйна симфония“ беше проведена от Съвместната оперативна група ARES (JTF-ARES), подразделение на Морската пехота на САЩ (MARFORCYEBR)



Communications
Security Establishment

Canadian Centre
for Cyber Security

Centre de la sécurité
des télécommunications

Centre canadien
pour la cybersécurité



National Cyber
Security Centre
a part of GCHQ



Australian Government
Australian Signals Directorate

ACSC

Australian
Cyber Security
Centre



National Cyber
Security Centre
PART OF THE GCSB

Hunting Russian Intelligence “Snake” Malware

CYBERSECURITY ADVISORY



News

PRESS RELEASE

U.S. Government Disrupts Botnet People's Republic of China Used to Conceal Hacking of Critical Infrastructure

Wednesday, January 31, 2024

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For Immediate Release

Office of Public Affairs

Court-Authorized Operation Removed Malware from U.S.-Based Victim Routers and Took Steps to Prevent Reinfection

A December 2023 court-authorized operation has disrupted a botnet of hundreds of U.S.-based small office/home office (SOHO) routers hijacked by People's Republic of China (PRC) state-

In the Matter of the Search of
(Briefly describe the property to be searched or identify the person by name and address)
SPECIFIED ROUTERS IN THE UNITED STATES
INFECTED WITH KV BOTNET MALWARE

Case No. **4:24-mc-5018**

APPLICATION FOR A WARRANT BY TELEPHONE OR OTHER RELIABLE ELECTRONIC MEANS

I, a federal law enforcement officer or an attorney for the government, request a search warrant and state under penalty of perjury that I have reason to believe that on the following person or property *(identify the person or describe the property to be searched and give its location)*:

Please see Attachment A of the affidavit, which is attached hereto and made a part of this application.

located in the _____ District of _____, there is now concealed *(identify the person or describe the property to be seized)*:

Please see Attachment B of the affidavit, which is attached hereto and made a part of this application.

The basis for the search under Fed. R. Crim. P. 41(c) is *(check one or more)*:

- evidence of a crime;
- contraband, fruits of crime, or other items illegally possessed;
- property designed for use, intended for use, or used in committing a crime;
- a person to be arrested or a person who is unlawfully restrained.

TRUE COPY I CERTIFY
ATTEST: January 09, 2024
NATHAN OCHSNER, Clerk of Court

By: _____
Deputy Clerk

The search is related to a violation of:

<i>Code Section</i>	<i>Offense Description</i>
	18 U.S.C. § 1030(a)(5) (damage to a protected computer) and 371 (conspiracy to commit damage to a protected computer) ("Subject Offenses")

The application is based on these facts:

Please see the attached affidavit, which is attached hereto and made a part of this application.

- Continued on the attached sheet.
- Delayed notice of _____ days *(give exact ending date if more than 30 days: 02/02/2024)* is requested under 18 U.S.C. § 3103a, the basis of which is set forth on the attached _____

pp can's signature

Printed name and title

Attested to by the applicant in accordance with the requirements of Fed. R. Crim. P. 4.1 by



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Justice.gov > Office of Public Affairs > News > Press Releases > Justice Department Conducts Court-Authorized Disruption of Botnet Controlled By The Russian Federation’s Main Intelligence Directorate of The General Staff (GRU)

News

PRESS RELEASE

Justice Department Conducts Court-Authorized Disruption of Botnet Controlled by the Russian Federation’s Main Intelligence Directorate of the General Staff (GRU)

Thursday, February 15, 2024

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UNITED STATES DISTRICT COURT

for the
Eastern District of Pennsylvania

IN THE MATTER OF THE SEARCH OF)
SPECIFIED ROUTERS IN THE UNITED)
STATES INFECTED WITH MOOBOT) Case No. 24-MJ-129
MALWARE)
)
)

SEARCH AND SEIZURE WARRANT

To: Any authorized law enforcement officer

An application by a federal law enforcement officer or an attorney for the government requests the search of the following person or property located in the Eastern District of Pennsylvania and elsewhere:

SEE ATTACHMENT A

The person or property to be searched, described above, is believed to conceal *(identify the person or describe the property to be seized):*

SEE ATTACHMENT B

I find that the affidavit(s), or any recorded testimony, establish probable cause to search and seize the person or property.

YOU ARE COMMANDED to execute this warrant on or before February 9, 2024
(not to exceed 14 days)

In the daytime 6:00 a.m. to 10 p.m. at any time in the day or night as I find reasonable cause has been established.

Unless delayed notice is authorized below, you must give a copy of the warrant and a receipt for the property taken to the person from whom, or from whose premises, the property was taken, or leave the copy and receipt at the place where the property was taken.

The officer executing this warrant, or an officer present during the execution of the warrant, must prepare an inventory as required by law and promptly return this warrant and inventory to United States Magistrate Judge Richard A. Lloret
(name)

I find that immediate notification may have an adverse result listed in 18 U.S.C. § 2705 (except for delay of trial), and authorize the officer executing this warrant to delay notice to the person who, or whose property, will be searched or seized for 30 days.

Date and time issued: 1/28/2024 3:31 pm /s/ The Honorable Richard A. Lloret
Judge's signature

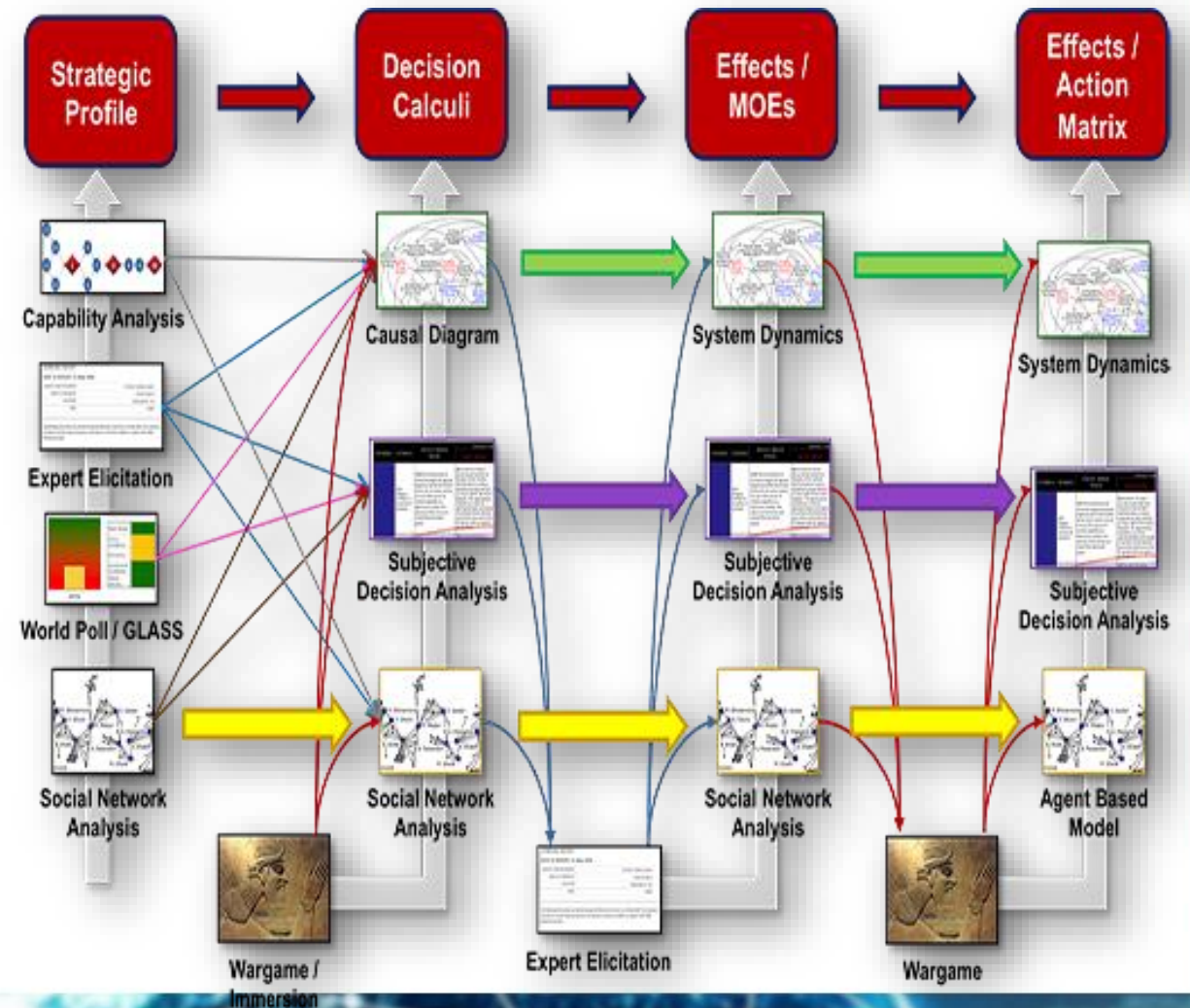
City and state: Philadelphia, PA HON. RICHARD A. LLORET, USMJ
Printed name and title

Изкуствения интелект и регулациите в дефанзивните операции

Регулациите могат да имат непредвидени последици, вместо да служат само като защитни механизми.

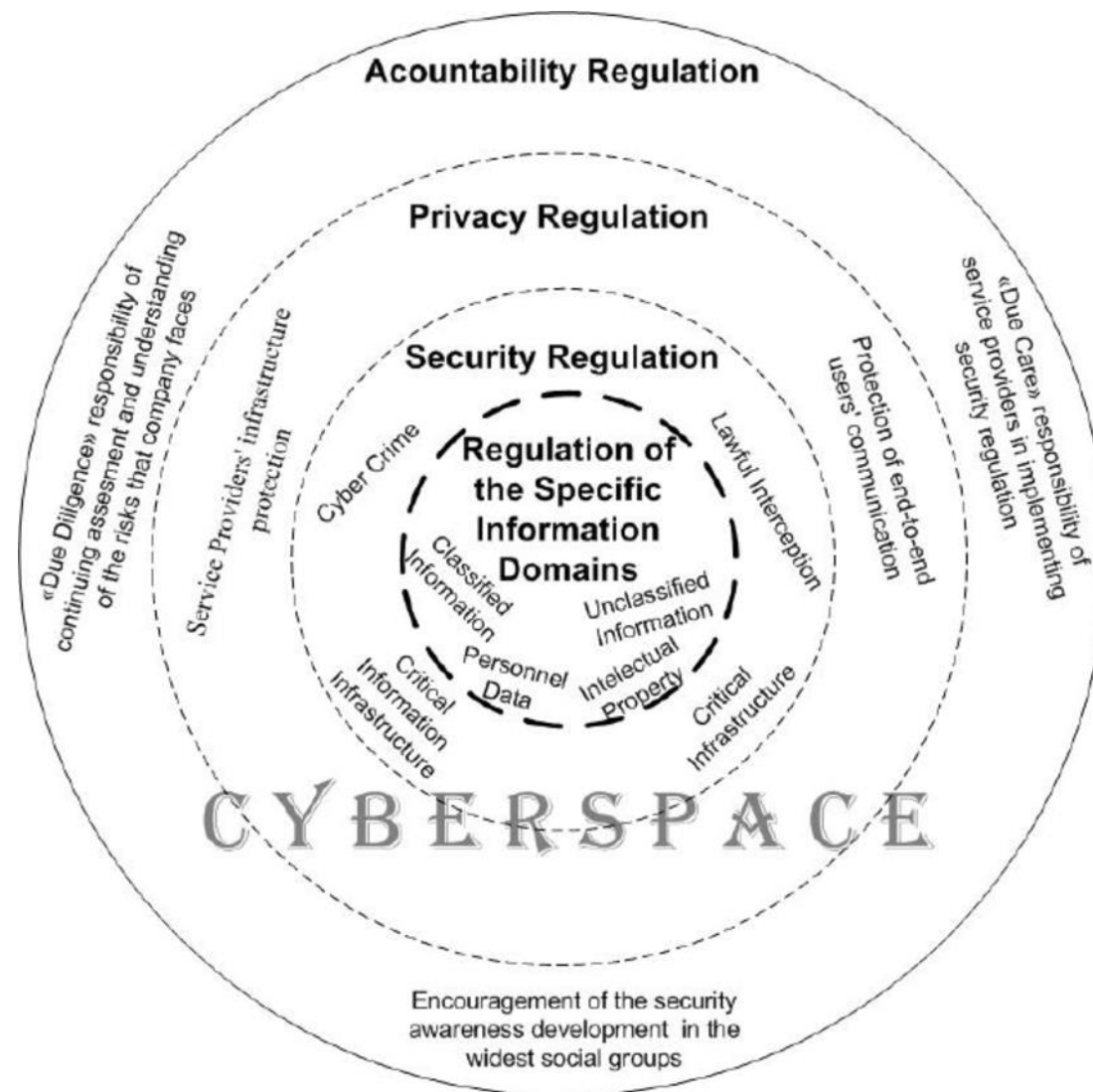
Те могат да въведат усложнения, да натоварят предприятията с изисквания за съответствие и да създадат нови уязвимости в организационните инфраструктури

Неяснотите и променливостта на регулаторната среда представляват значителни предизвикателства за организациите, които се опитват да се адаптират към променящите се изисквания за съответствие.



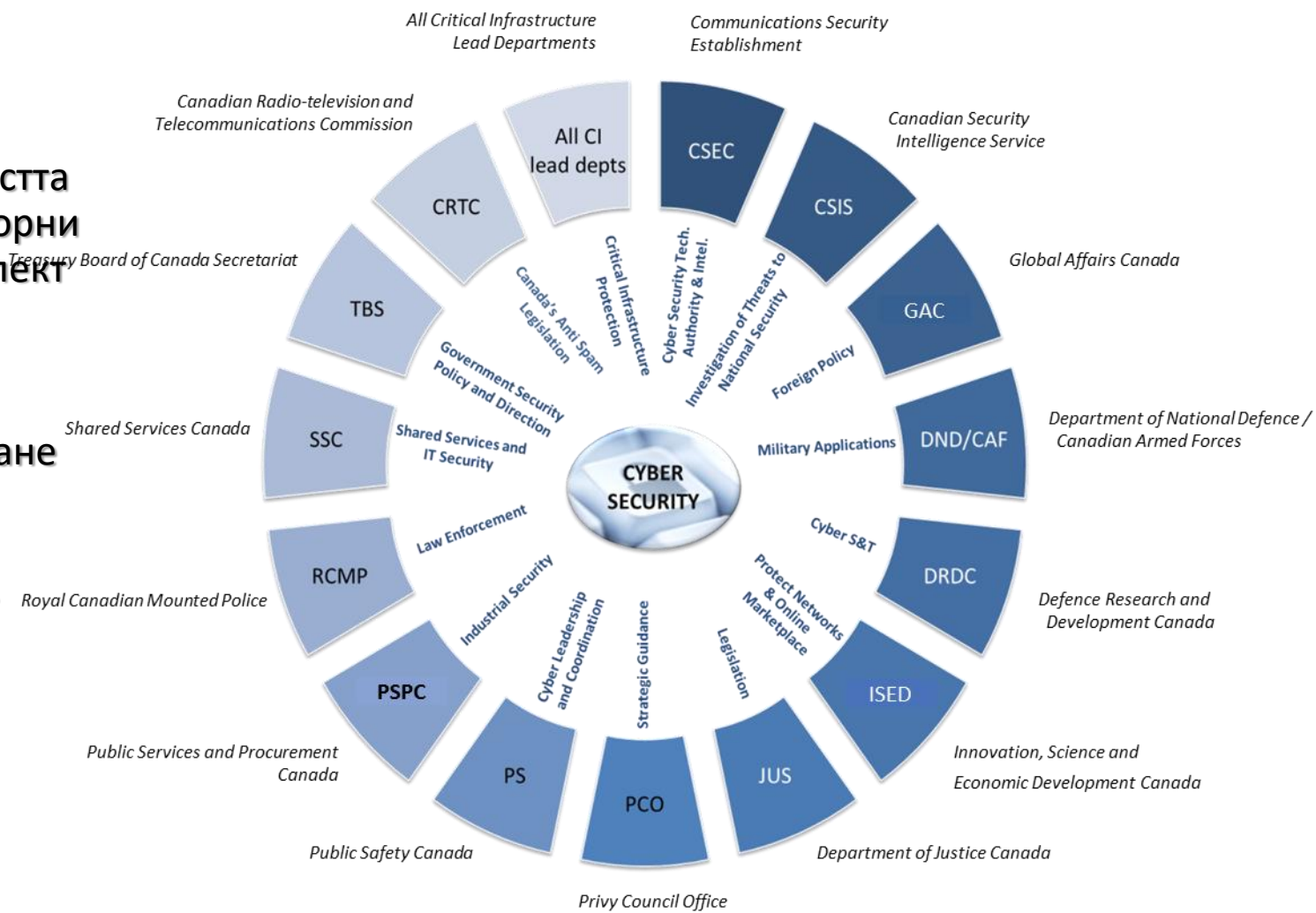
Бързият темп на технологичен напредък в областта на ИИ и кибероперациите изпреварва способността на регулаторните рамки да вървят в крак с него, което води до регулаторни пропуски, оставяйки организациите уязвими за киберзаплахи.

В глобалния контекст на кибероперациите и взаимосвързаността на цифровите системи, необходимостта от по-гъвкава и адаптивна регулаторна рамка става още по-належаща.



дерегулациите подчертават необходимостта от преценка на традиционните регулаторни подходи в областта на изкуствения интелект и кибероперациите.

Преходът към по-гъвкави и адаптивни стратегии може да помогне за балансиране между сигурността и иновациите, като същевременно адресира сложността и динамичния характер на цифровата ера.



Заклучение

В заключение, изследването на приложенията на изкуствения интелект в кибероперациите разкрива многостранен пейзаж, в който технологичният напредък се пресича с регулаторни предизвикателства.

Презентацията подчертава решаващата роля на изкуствения интелект в различните етапи на Cyber Kill Chain, от анализа на уязвимостите до командването и контрола, като подчертава как системите, управлявани от изкуствен интелект, могат да повишат сложността на кибератаките, като същевременно укрепват защитните механизми.

