

FAMIS

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IBM - Latest Updates in Cyber Resilience and Al

Question - What do these two topics have in common??



IBM - Latest Updates in Cyber Resilience and Al

Answer – Its All about the



DATA!!



Group Exercise

Current Cost of a Data Breach?

• Are you Resilient?

EXERCISE GROUND RULES

Top two (2) thoughts – go with your gut 1 Minute!

If table – combine into top three (3) 2 Minutes!



IBM Security

Cost of a Data Breach Report 2023

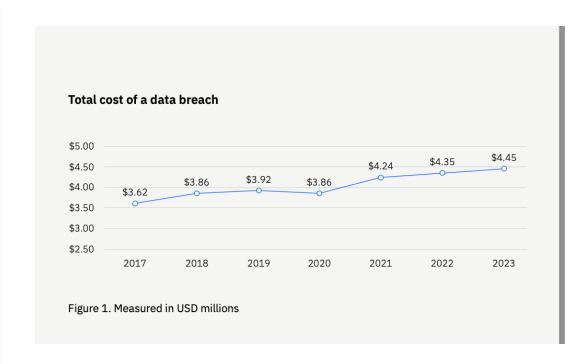


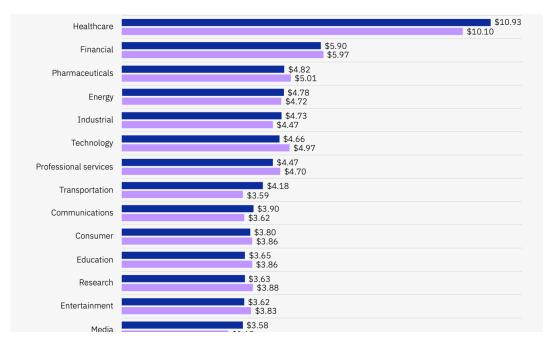
https://www.ibm.com/downloads/cas/E3 G5JMBP



CHANGE HEALTHCARE CYBER ATTACK

- The hack of Change Healthcare reportedly affected <u>billing and care authorization portals</u>. It's led to <u>prescription</u> <u>backlogs</u> and <u>missed revenue</u> for providers, posing potential threats to worker paychecks and even patient care.
- The attack also prompted high-level calls for action from the likes of <u>Senate Majority Leader Chuck Schumer</u> of New York and leading medical organizations. The American Medical Association called on the Department of Health and Human Services to "use all its available authorities to ensure that physician practices can continue to function, and patients can continue to receive the care that they need."
- "This massive breach and its wide-ranging repercussions have hit physician practices across the country, risking patients' access to their doctors and straining viability of medical practices themselves," the AMA's president, Dr. Jesse Ehrenfeld, said in a March 4 statement. "This is an immense crisis demanding immediate attention."





Today's Cost for Cyber Attack





Malicious Attacks

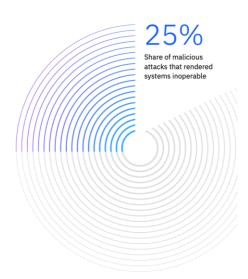
<u>Malware</u> — or malicious software — is any program or code that is created with the intent to do harm to a computer, network or server. Malware is the most common type of cyberattack, mostly because this term encompasses many subsets such as ransomware, trojans, spyware, viruses, worms, keyloggers, bots, <u>cryptojacking</u>, and any other <u>type</u> <u>of malware attack</u> that leverages software in a malicious way.

Complete findings

Ransomware and destructive attacks

This year, ransomware and destructive attacks³ accounted for 24% and 25% of malicious attacks, respectively.

As in the 2022 report, we looked at the lifecycle of these types of breaches and the impact of paying a ransom compared to not paying a ransom. This study doesn't include the cost of the ransom in calculating the total cost of the breach. In the 2023 report, for the first time, we examined the influence of involving law enforcement in the effort to contain a ransomware attack.



EPA warning on Cyber attacks





TRUMP TRIAL
Inside courtroom

HISTORIC MOMENTS

College protests

NEWS TO YOUR INBOX

Start the day smarter 💥

.S. Elections

Sports

Entertainment

Life

Money

ravel Opinion



EPA urges water utilities to protect nation's drinking water amid heightened cyberattacks



Thao Nguyen USA TODAY

Published 12:04 a.m. ET May 21, 2024 | Updated 12:57 p.m. ET May 21, 2024











EPA issues cyberattack warning for water utilities

The Environmental Protection Agency issued a countrywide alert urging water utilities to take immediate action to safeguard drinking water from cyberattacks. Wibbitz - News



Types of Recovery and Resilience

Cyber Security is not Cyber Resiliency

Security – The Moat Pre-Attack

Resiliency – Time to Recover Post - Attack

psp@fkityber recovery is very different from Disaster recovery

	Category	Disaster Recovery	Cyber Recovery
	Recovery Point	Known Point in time	Not knownyet
	Recovery Time	RPO/RTO	Trusted and Verified first
	Nature of Disaster	Flood, power outage, weather	Targeted
DE LA SALAN	Impact of Disaster	Regional	Global
	Recovery	Failback	Based on situation
The state of the s	Data to Recover	Known	Unknown
	Topology	Connected Data Centers	Isolated and away from production
	Data Volume	Comprehensive, all data	Super selective
	Probability	Low	High



IBM - Cyber Resiliency Assessment

The Cyber Resiliency Assessment is a no-cost, two-hour virtual workshop with IBM security experts and storage architects. The analysis and recommendations are confidential, vendor neutral and non-invasive without the need to install anything or run scripts. We will work with your team to:

- Review data backup, protection, and restoration procedures,
- Identify safeguards to prevent becoming a cyberattack victim, and
- Understand critical business outcomes and connect them to targeted cyber resiliency strategies.

In the final report, you'll come away with:

- Detailed assessment report of findings,
- Roadmap of recommended improvements and considerations, and
- Management presentation, connecting practical methods to achieve your business outcomes.



AI in Public Sector

- The expanding use of Artificial Intelligence (AI) in government is triggering numerous opportunities for governments worldwide. Traditional forms of service provision, policy-making, and enforcement can change rapidly with the introduction of AI-technologies in government practices and public-sector ecosystems. For example, governments can use AI-technologies to improve the quality of public services, to foster citizens' trust, and to increase efficiency and effectiveness in service delivery. AI may also be used by governments to generate more accurate forecasts and to simulate complex systems that allow experimentation with various policy options.
- At the same time, Al use in government creates challenges. While the use of Al in government may increase citizens' trust towards governments, it may also *reduce* citizens' trust in government and government decisions.

https://www.sciencedirect.com/journal/government-information-quarterly



Al Group Exercise

- Top Uses of Al in Your Organization?
- What is your biggest concern about AI?

EXERCISE GROUND RULES

Top two (2) thoughts – go with your gut 1 Minute!

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10 Things Governments Should Know About Responsible Al

- 1. Al is Highly Relevant in Public Sector
- Government is a Data Billionaire
- 3. Data Flows based on Trust
- 4. Humans are at the Heart of Responsible Al
- 5. Responsible AI has Five (5) Characteristics
- 6. Trusted Data must be the Foundation
- 7. Differentiate the Risks of Responsible AI
- 8. Responsible Al requires Al Governance
- 9. Tools embed Responsibility in AI
- 10. Governments can build AI now



The speed, scope, and scale of generative AI impact is unprecedented

Massive early adoption

80%
of enterprises are
working with or planning
to leverage foundation
models
and adopt generative AI

Broad-reaching and deep impact

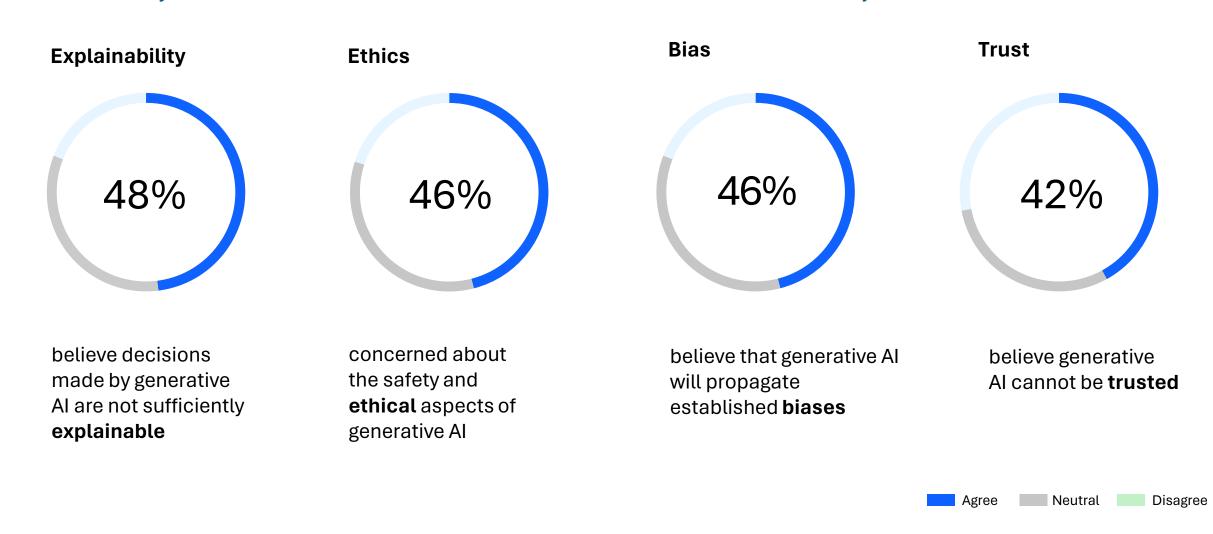
Generative AI could raise global GDP by 7% within 10 years Critical focus
of Al activity
and investment

Generative AI expected to represent 30% of overall market by 2025



Business leaders face challenges in scaling AI across the enterprise with trust

80% of surveyed business leaders see at least one of these ethical issues as a major concern¹



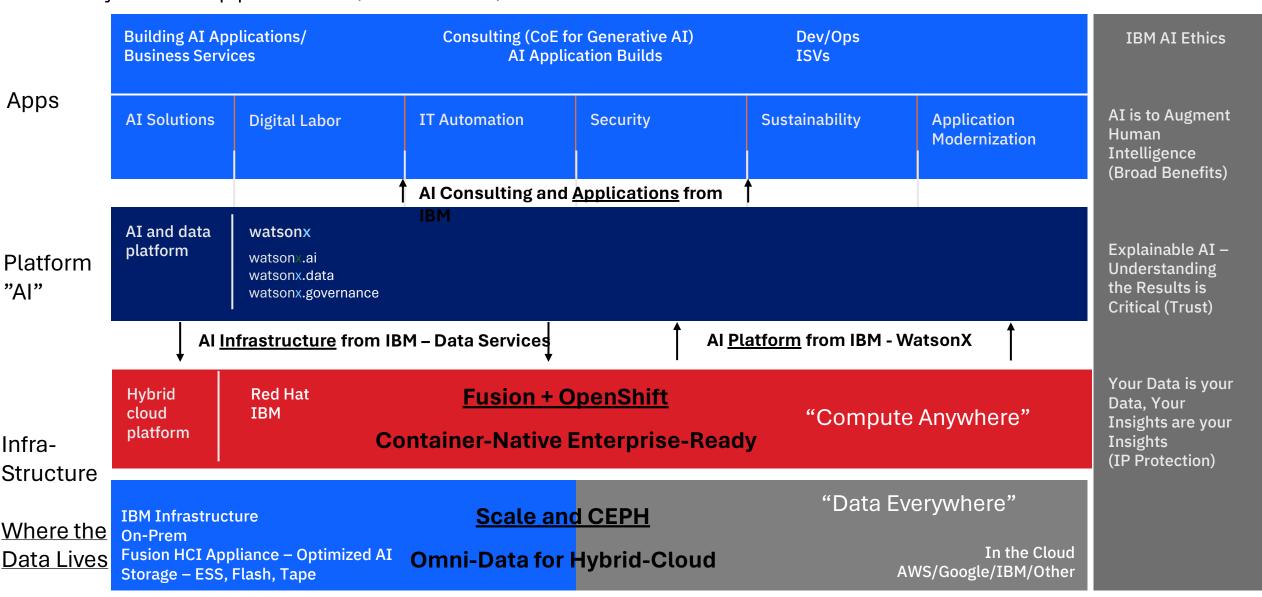


IBM in Al World?

Hybrid Cloud for Al



AI Layers - Application, Platform, and Infrastructure – An End-to-End View





AI ETHICS

IBM AI Ethics

AI is to Augment Human Intelligence (Broad Benefits)

Explainable AI – Understanding the Results is Critical (Trust)

Your Data is your Data, Your Insights are your Insights (IP Protection) Augment Human Intelligence

Understand the Results

IP and Data Rights Protection



Trust will become the Key Al Differentiator in Public Sector



GOVERNANCE

Bills on artificial intelligence filed in lead-up to Florida legislative session

Legal and AI experts say it's a complicated area to regulate.

Tallahassee Democrat

Govern AI models anywhere

IBM® watsonx.governance™ was built to direct, manage and monitor the artificial intelligence (AI) activities of your organization by using IBM watsonx™, one integrated platform, which can be deployed on cloud or on-premises.

- Govern generative AI (gen AI) and machine learning (ML) models from any vendor including IBM® watsonx.ai™, Amazon Sagemaker and Bedrock, Google Vertex and Microsoft Azure.
- Evaluate and monitor for model health, accuracy, drift, bias and gen AI quality.
- Access powerful governance, risk and compliance capabilities featuring workflows with approvals, customizable dashboards, risk scorecards and reports.
- Use factsheet capabilities to collect and document model metadata automatically across the AI model lifecycle.

Get the ebook: Build responsible AI workflows with AI governance \rightarrow

Report

IBM is named a leader in the IDC MarketScape: Worldwide AI Governance Platforms 2023.

Read the excerpt \rightarrow

THINK 2024 Announcement

IBM expands watsonx portfolio on AWS



Group Exercise Review



Things to do Today

1

Resiliency Assessment – Know Where You Are 2

Data Infrastructure – Your Data is Your Gold – Use it; Protect it 3

AI – Learn, Leverage, Govern (Compliance)



IBM is Happy to Help

THANK YOU