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Securing the Future of Healthcare Through Cybersecurity

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Agenda

- Introduction
- Why, What and How
- Future Trends and Challenges
- Conclusion

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Introduction

"Cybersecurity is the art of protecting Networks, Devices, and Data from unauthorized access or criminal use and the practice of ensuring Confidentiality, Integrity, and Availability of Information."-- Cybersecurity and Infrastructure Security Agency (CISA)



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Why, What And How

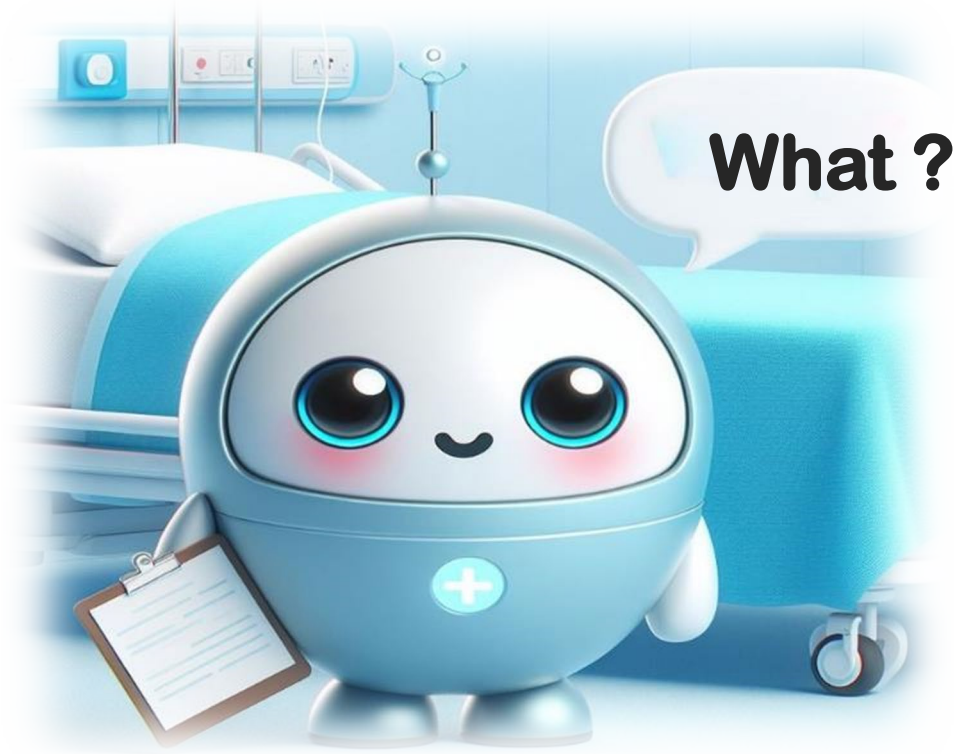
- Why Cybersecurity Program Is Important
- Why Target Healthcare Organizations
- Why Securing Patient Data is Vital



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Why, **What** And How

What Are The Threats



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Why, **What** And How

- **Malware**: “Short for “malicious software,” includes any software (such as a virus, Trojan, or ransomware) that is installed on your computer, mobile or connected devices.



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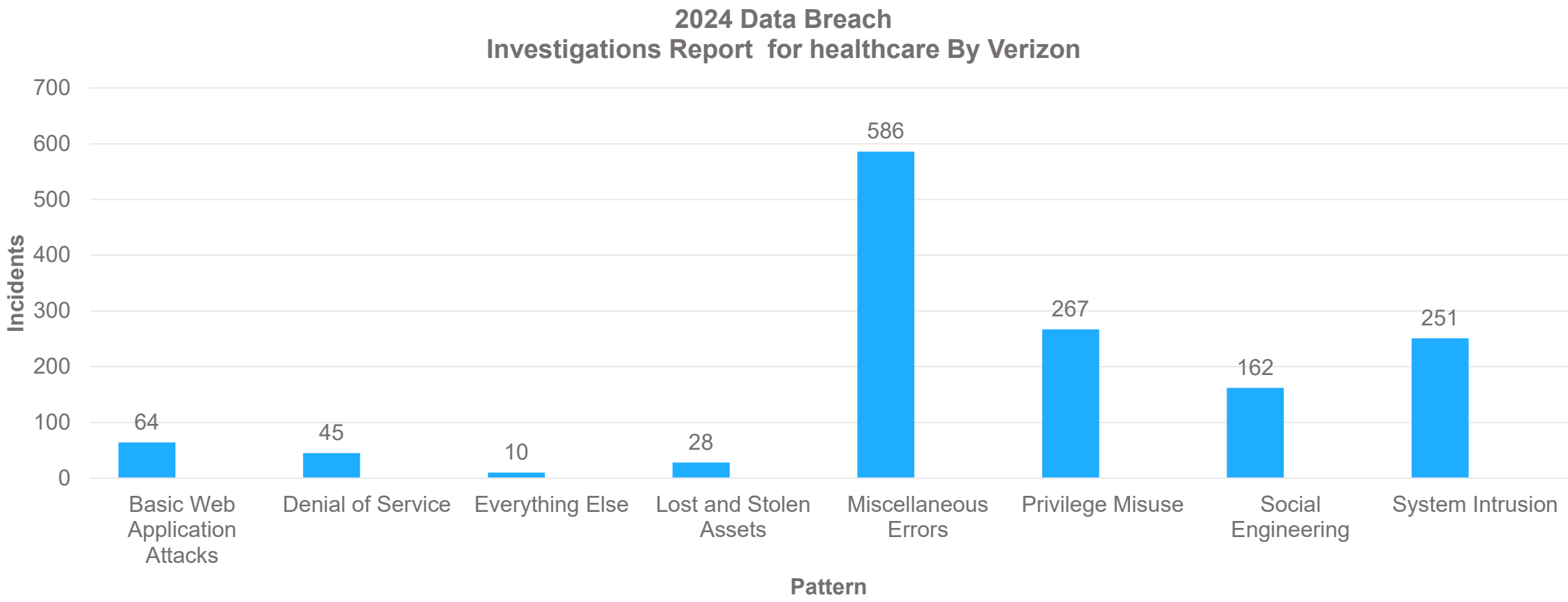
Why, **What** And How

- **Social Engineering**: “Psychological manipulation of people into performing actions or divulging confidential information.”



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Why, **What** And How



Source: https://www.verizon.com/business/resources/reports/dbir/bir

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Why, **What** And How

- **Insider Threat**: “Perceived threat to an organization that comes from people within the organization, such as employees, former employees, contractors or business associates, who have inside information concerning the organization's security practices, data and computer systems.”



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Why, **What** And How

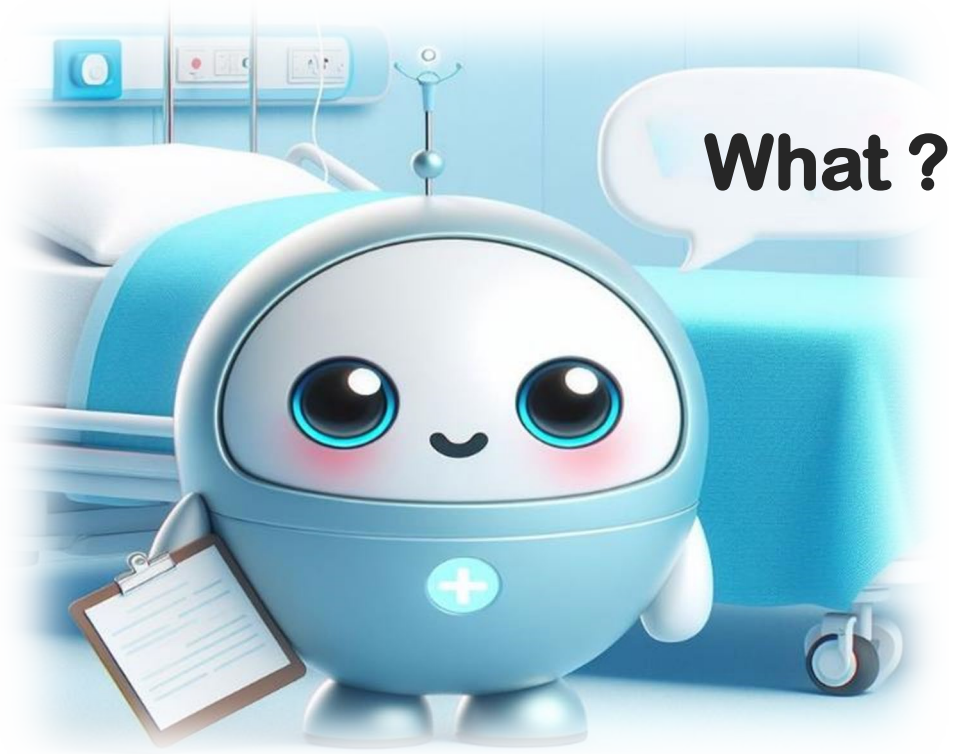
- **Web Application Threats**: “ Malicious activities that target web applications by exploiting vulnerabilities in their design or implementation”



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Why, **What** And How

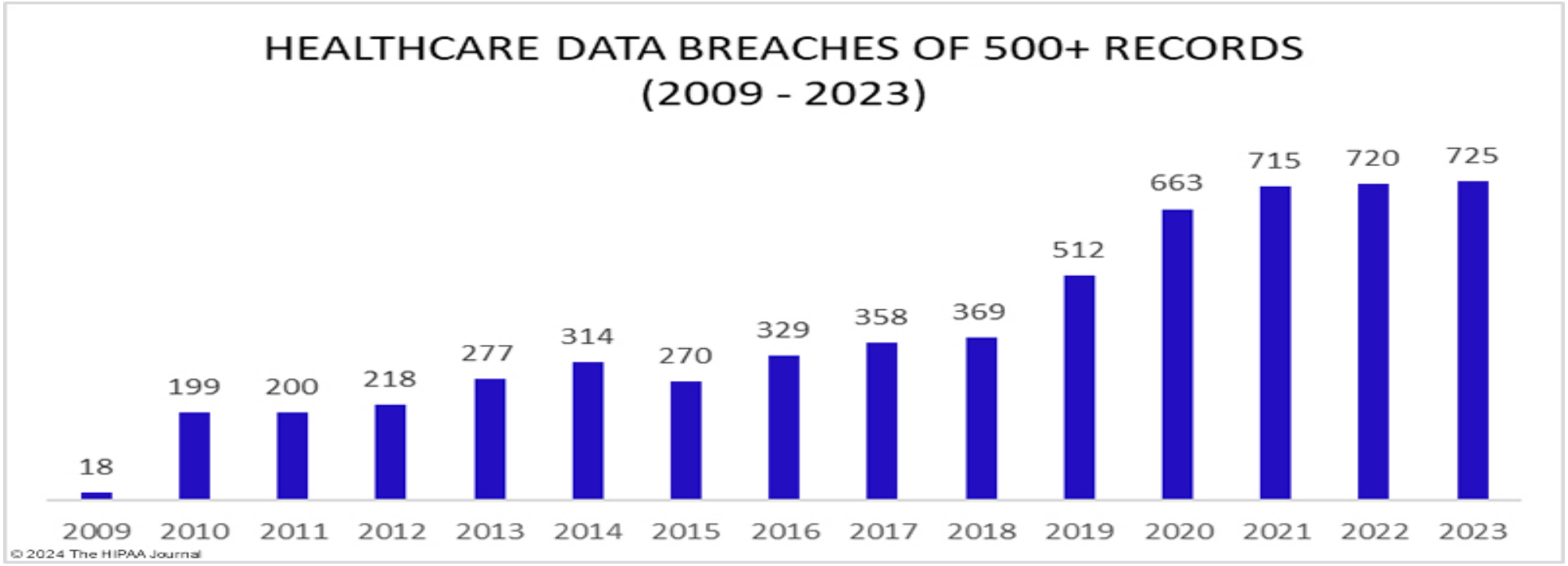
- What Are the Laws
  - General Data Protection Regulation (**GDPR**)
  - Health Insurance Portability and Accountability Act (**HIPAA**)
  - Health Information Technology for Economic and Clinical Health Act (**HITECH**)
  - 23 New York Codes, Rules, and Regulation (**NYCRR**) Part 500



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Why, **What** And How

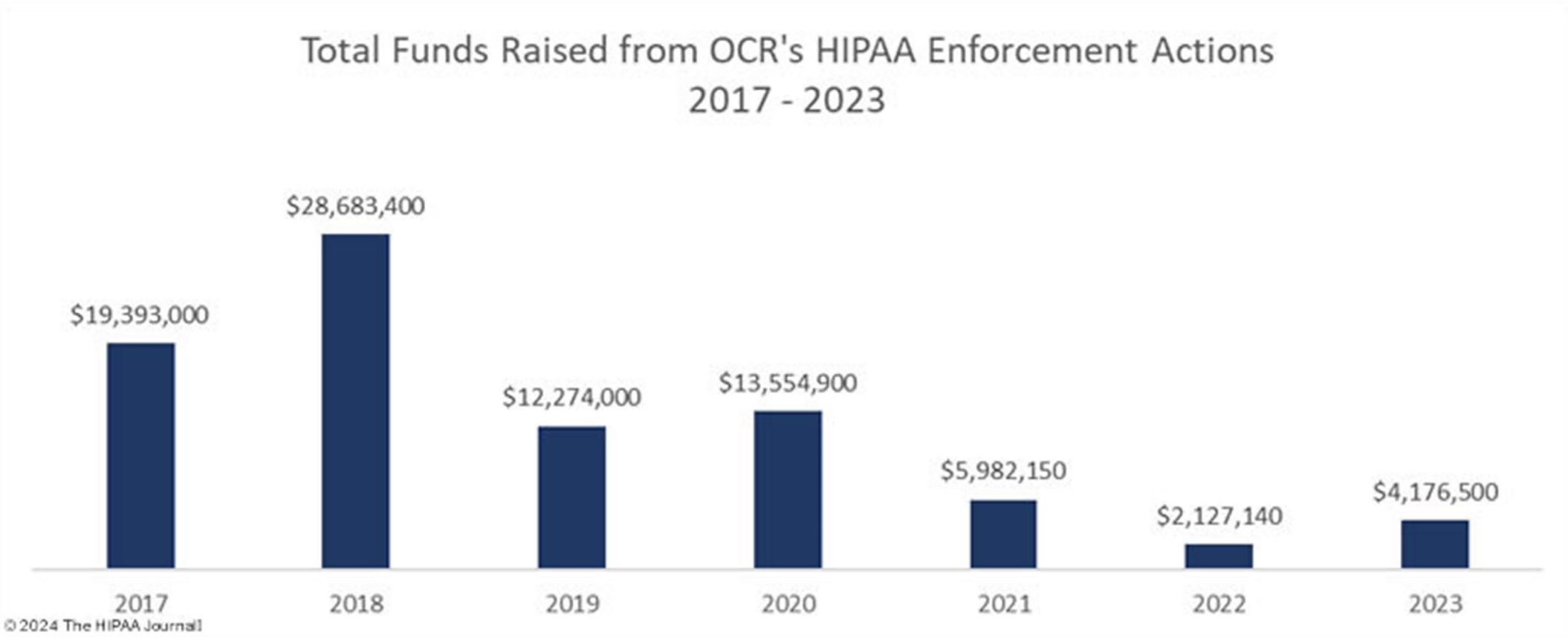
What Are The Risks



Source: : https://www.hipaajournal.com/security-breaches-in-healthcare

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Why, **What** And How



Source: : https://www.hipaajournal.com/security-breaches-in-healthcare

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Why, What And **How**

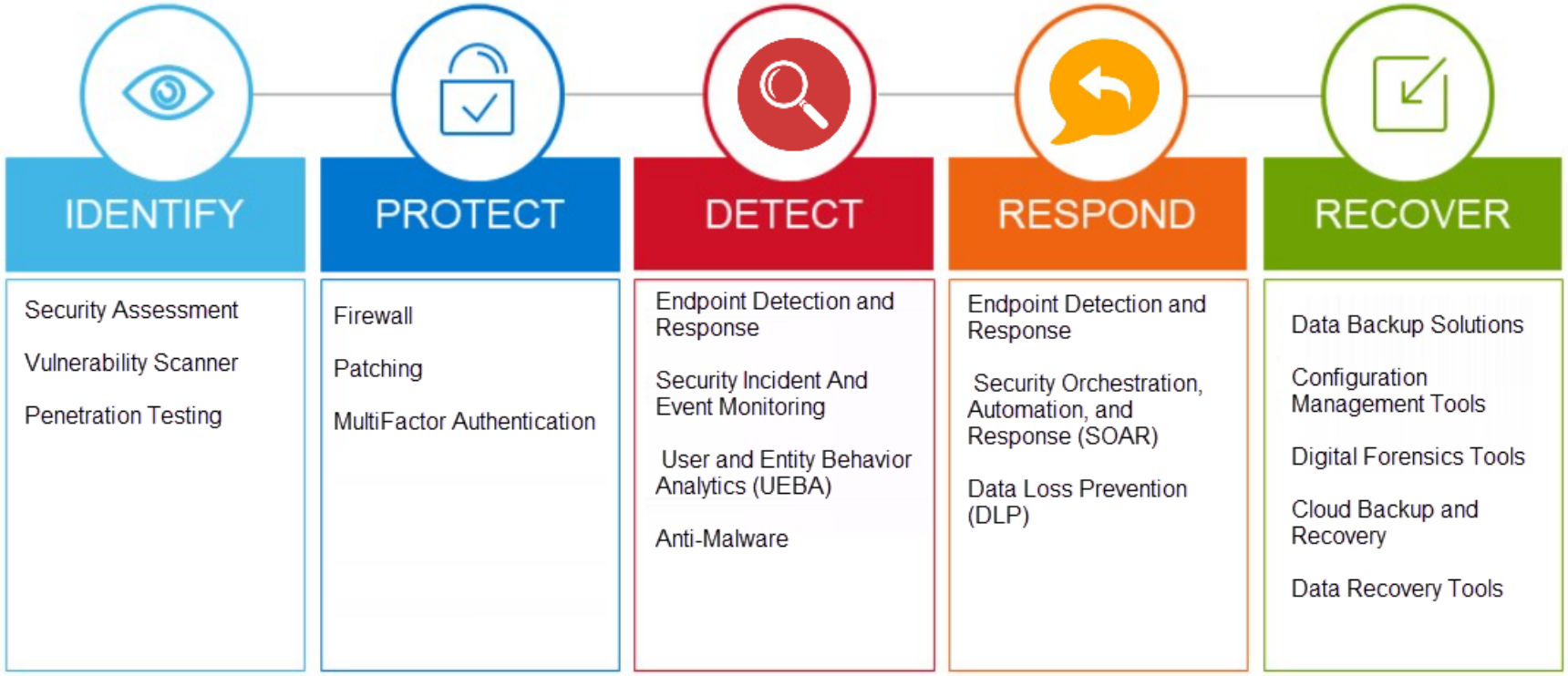
- How Policies And Standards Can Help
- How Technology Can Help



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Why, What And **How**

- How Technology Can Help



National Institute of Standards and Technology (NIST) Cybersecurity Framework

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Why, What And **How**

- How Users Can Help



Robust Security Posture
24X7 Monitoring
Annual Compliance Auditing



User Clicks On Phishing Email

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Why, What And **How**

- How Collaboration Can Help



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Future Trends and Challenges

- Internet of Things(IoT) Security
- Artificial Intelligence (AI) Risks
- Telemedicine Security



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Conclusion

- Cybersecurity Program is Vital
- Collaboration Strengthens Defense Against Threats
- Investments and Awareness Should Be Prioritized
- Thank you for your commitment

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References

- https://en.wikipedia.org/wiki/Insider_threat
- 2023_IC3Report.pdf
- https://www.cisa.gov/sites/default/files/publications/Malware_1.pdf
- https://www.hipaajournal.com/healthcare-data-breaches-due-to-phishing/
- https://www.hipaajournal.com/security-breaches-in-healthcare/
- https://nvlpubs.nist.gov/nistpubs/CSWP/NIST.CSWP.29.pdf
- https://www.verizon.com/business/resources/reports/dbir/
- https://www.ekransystem.com/en/blog/real-life-examples-insider-threat-caused-breaches
- Images Generated by Microsoft Designer tool and gathered from Internet

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Questions?

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