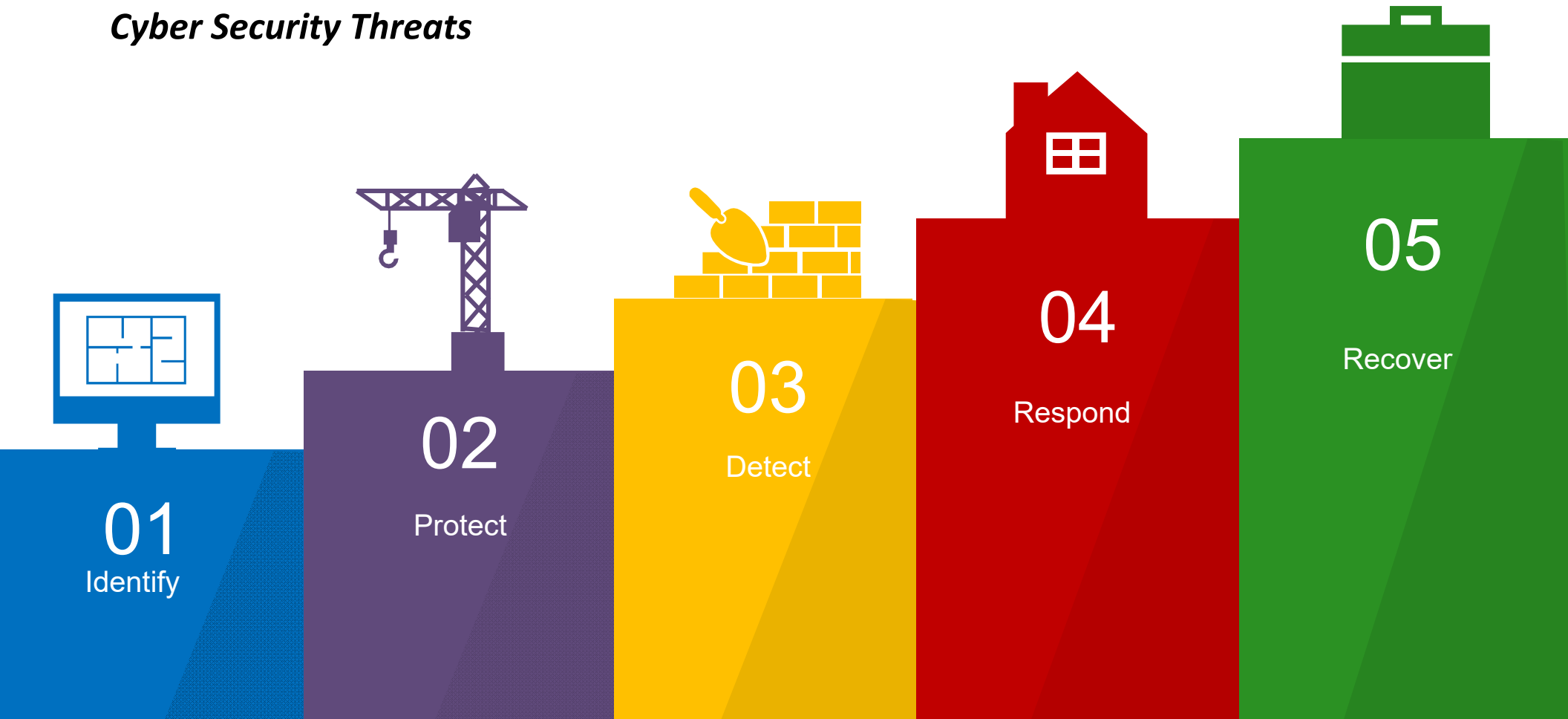


# Constructing A Wall Around Data Breaches

## *Cyber Security Threats*



# Constructing A Wall Around Data Breaches

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## *Cyber Security Threat*

- Ransomware damages cost the world over \$5 billion in 2017 and is expected to climb to \$11.5 billion in 2019.\*
- Those figures are up from just \$325 million in 2015.

\* Source: Cybersecurity Ventures

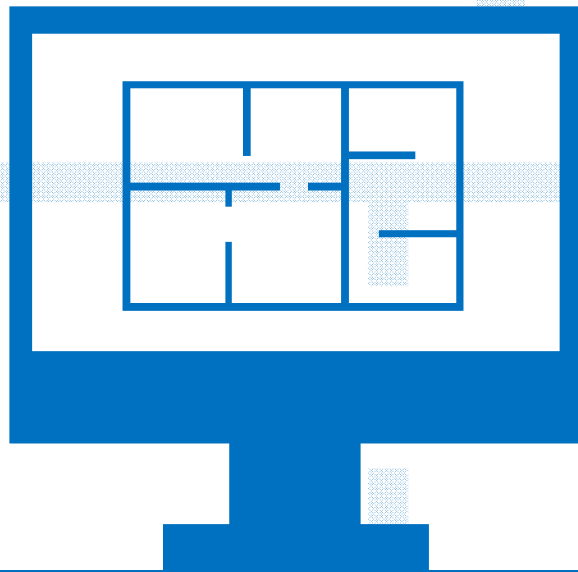
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01 Identify

Identify – to find out or establish the identity of

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## 01 Cyber Security Threat

- Phishing
- Ransomware
- Trojan Horse
- Advanced Persistent Threat
- Computer Worm
- Botnet
- Spyware
- Spooking Attack

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## 01 Cyber Security Threat

- Payroll/Human Resource
- Internal Revenue Service
- State Tax Agencies
- Software Vendors
- Cloud Solutions

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## 01 Cyber Security Threat

- 80% of companies consider data protection to be their top IT priority.
- 54% of businesses struggle with how to deal with attacks on mobile devices.
- 43% of businesses experienced data loss in the past year due to a cybersecurity incident.
- 38% of targeted attacks in 2016 were caused by malicious actions of employees.



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02 Protect

Protect – to drive danger or attack away from

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## 02 Protect



Access to corporate mail exchange using personal devices.



Access to calendars using personal devices.

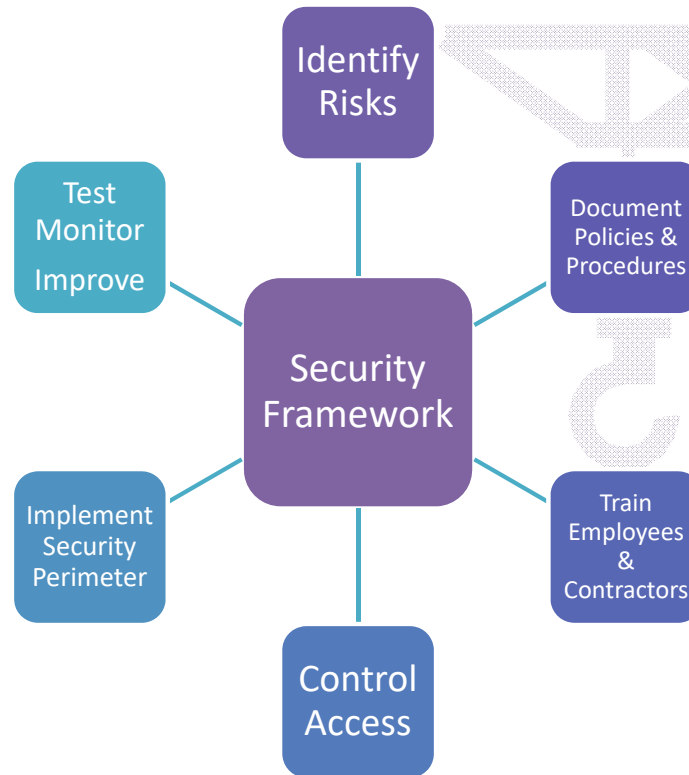


Access to corporate network using personal devices.

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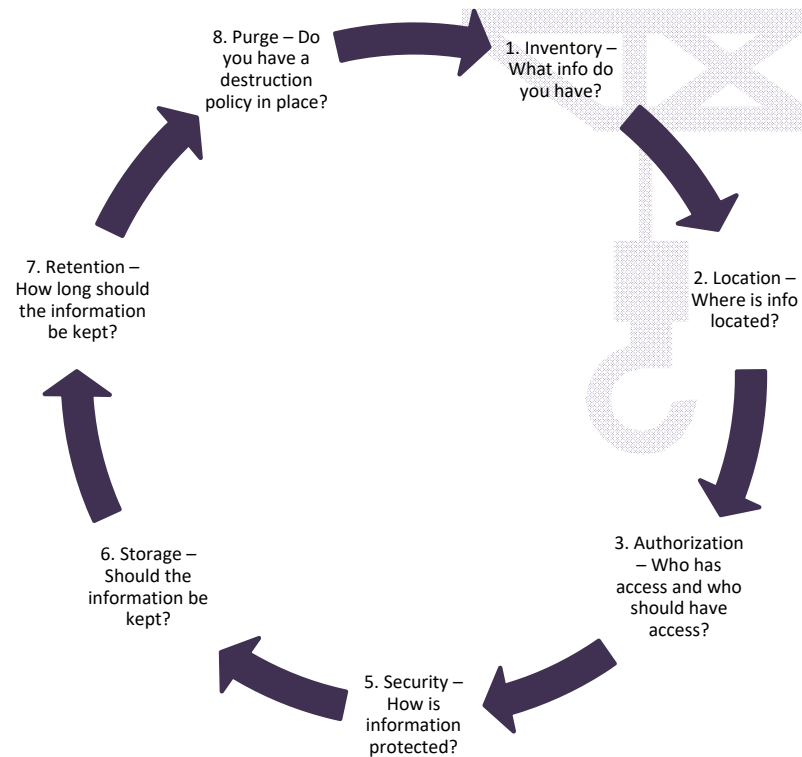
## 02 Protect



Evaluate Your Environment and Processes

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## 02 Protect



What is important about this diagram?

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A faint, stylized illustration of a construction crane and a building frame is visible in the background. The crane is on the right side, and the building frame is on the left side. The crane has a long horizontal jib and a hook hanging from it. The building frame consists of vertical and diagonal beams forming a grid-like structure.

## 02 Protect

- Formal Security Policies
- Security Training
- Endpoint Protection
- Cyber Security Monitoring
- Cyber Security Insurance

Security Plan

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## 02 Protect

- Policies establish governance.
- Serves as the foundation, outlining expectations and the consequences for failure to comply.
- Policies are only as good as an organization's ability to enforce them.

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## 02 Protect

Security Training - A key stakeholder in cyber security is your employees.

- Regular security training ensures your employees understand their role & responsibility in safeguarding data and protecting the company's resources.

See Something – Say Something!

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## 02 Protect

- Network Access Control
- Device and Application Control
- Intrusion Prevention
- Firewall
- Antispyware
- Antivirus

Technology – Endpoint Protection



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A hand in a white glove points towards a wall of light-colored bricks. In the foreground, a trowel is shown spreading mortar onto a row of dark-colored bricks. The background features a larger, faint wall of light-colored bricks.

03 Detect

Detect – to come upon after searching, study, or effort

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## 03 Detect



Detect – Cyber Security Monitoring

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## 03 Detect



ATO  
Prevention



Active Directory  
Protection



Fraud  
Investigation



Corporate Exposure  
Alerts



NIST Password  
Enforcement

Detect – Cyber Security Solutions  
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**04** Respond

Respond – to act or behave in response

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## 04 Respond

Each data breach response needs to be customized for the circumstance of the incident.

Response Time is Critical!  
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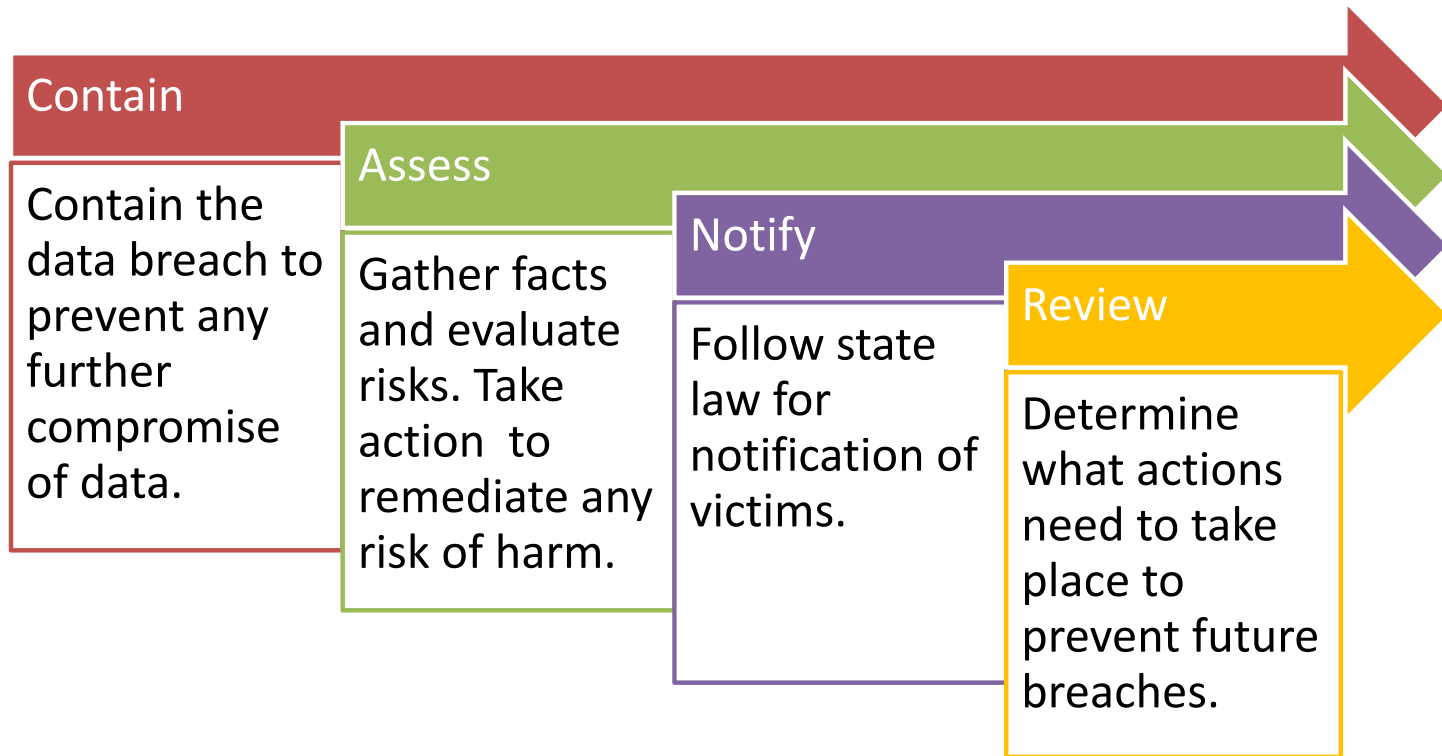
## 04 Respond

Generally, a data breach response should follow four key steps:

- Contain
- Assess
- Notify
- Review

# Constructing A Wall Around Data Breaches

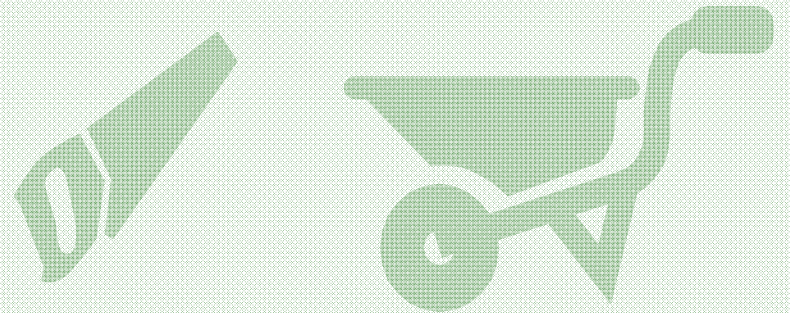
## 04 Respond



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**05** Recover



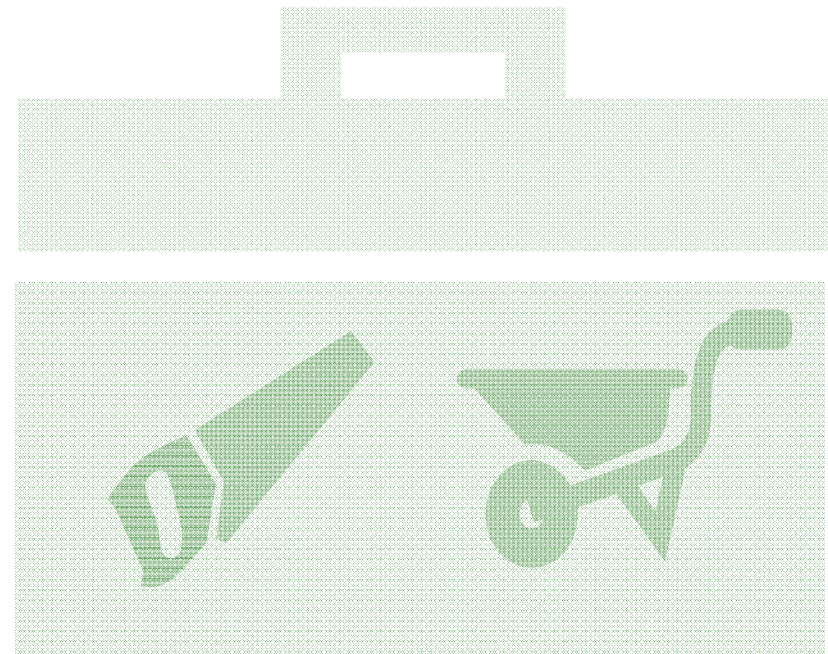
Recover – to get again in one's possession



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## 05 Recover

- Communication
- Accountability
- Transparency
- Resolution
- Prevention



Integrity - Doing what is right in face of the consequences!

# Constructing A Wall Around Data Breaches

## 05 Recover



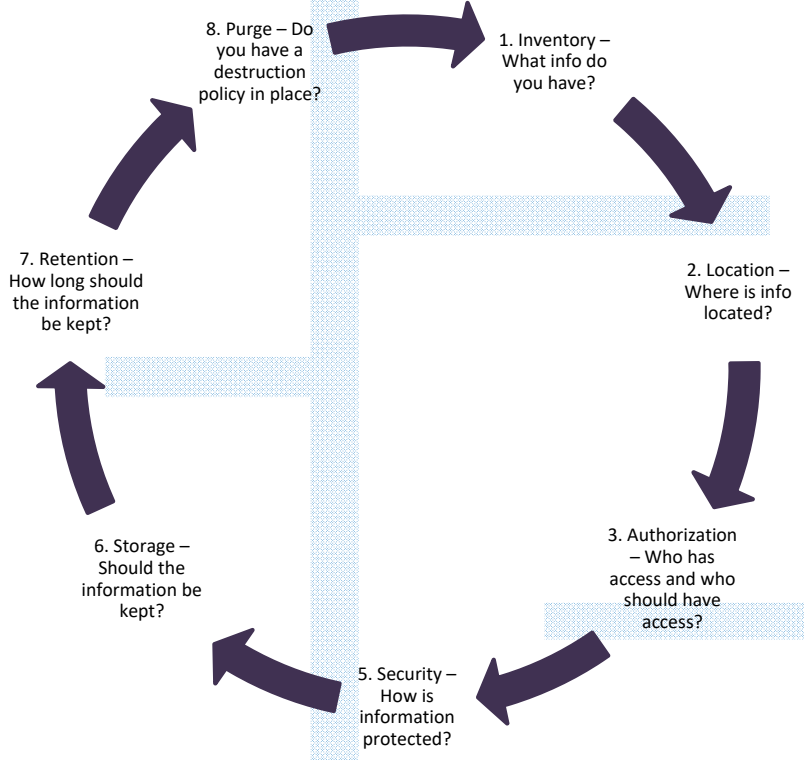
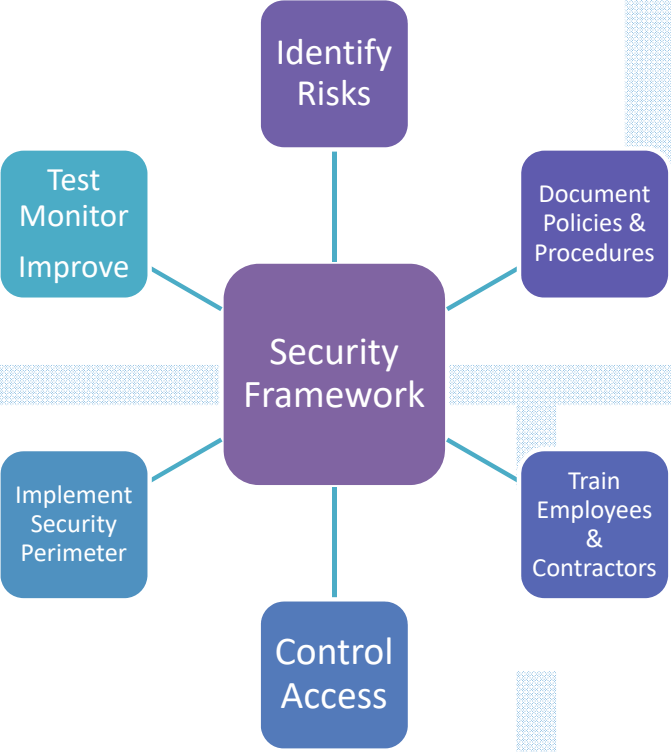
Cyber Security Insurance

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The security framework provides the structure for the implementation, evaluation and improvement of information security practices.

Security is not a product but a continual process!  
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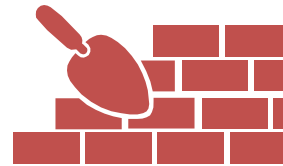
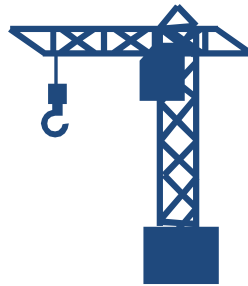
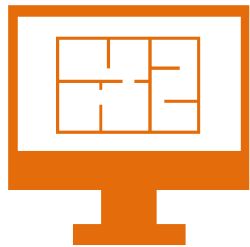
## Summary – Actionable Items

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**Open Discussion**

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## *Resources*

- <http://www.databreachtoday.com/resources>
- <https://www.healthit.gov/providers-professionals/security-risk-assessment-tool>

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Thank You for Attending

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