



# Managing Cybersecurity

## Threats in Digital Health



# Panelists

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DANIEL NIGRIN



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Sr. VP Information Services  
Chief Information Officer  
Boston Children's Hospital

MARGIE ZUK



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Sr. Principal Cyber Security  
Engineer  
Cyber Engagement  
Lead for Healthcare  
MITRE Corporation

JIM TURNER



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Dir., Software Engineering  
Sunrise Labs

MODERATOR



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BRIAN JOHNSON,  
President, MassMEDIC

# When Hacktivists Attack Your Hospital

BRUINS WIN IN OVERTIME, 3-2, PUSH RED WINGS TO THE BRINK — C1

# The Boston Globe

FRIDAY, APRIL 25, 2014

## In the news



### Late shift

**Friday:** Turning rainy at night;  
high 58-63, low 41-46

**Saturday:** Rainy, cooler;  
high 47-52, low 39-44

High tide: 8:30 a.m., 9:04 p.m.

Sunrise: 5:48 Sunset: 7:37

Complete report, **B13**

## Cyberattack hits Children's Hospital

May be the work  
of group opposing  
teen's treatment

By Michael B. Farrell  
and Patricia Wen

GLOBE STAFF

The infamous computer hacker network known as Anonymous threatened to attack Boston Children's Hospital over the child custody case involving Justina Pelletier last month, just a few weeks before the medical center's website was subjected to numerous cyber-assaults.



The anti-authority members of Anonymous sometimes appear in Guy Fawkes masks.

Anonymous has made its interest in the case clear. Several weeks ago, the group claimed responsibility for an attack on the website of Wayside Youth and Family Support Network, the Framingham residential facility where 15-year-old Justina has been living since January under state custody.

After the more recent attack on Children's, some patients and medical personnel could not use their online accounts to check appointments, test results, and other case information after the hospital shut down those Web pages.

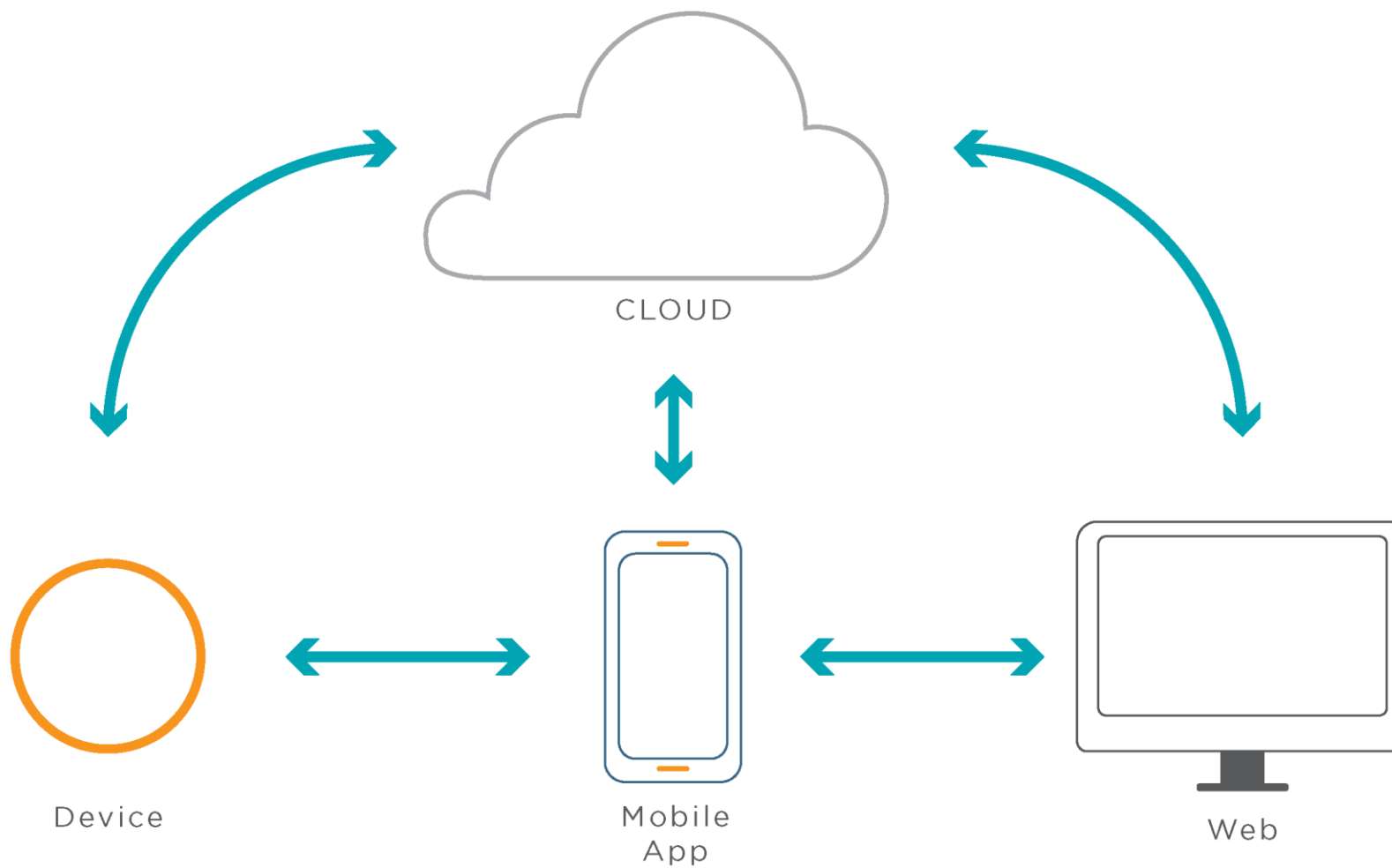
The threats from Anonymous are the latest to emerge against

Firefigh  
deal wo  
raise p  
by 18.8

City's 6-year p  
put at \$92.4m  
is expected ne

By Meghan E. I

# What is a Medical Device?





# FDA/MITRE Focus Areas and Initiatives

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- Postmarket Management of Cybersecurity in Medical Devices Guidance (Dec 2016)
- Medical Device Cybersecurity Incident Response
- FDA issued the Medical Device Safety Action Plan (April 2018)
- MassTech Collaborative
- Coordinated Disclosure Process

# Mitigation of Risk

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- Risk Reduction is Key
- Leverage Existing Cybersecurity Resources
- Tactical & Technical Steps
- During a Cyber Attack or Intrusion

# Take Aways

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- Establish a cybersecurity culture
- Design mitigation during development
- Implement and test mitigations
- Plan post launch monitoring
- Monitor Continually and adapt as cyber threats evolve
- Assess the risks involved and develop a strategy to address



# Thank You for Attending

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For more information feel free to reach out to

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# Q & A