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- ▼ Remarks by CISO from Partners, Jigar Kadakia
- Health care incidents expose more SSN's than any other industry
- Health care hit hardest by both employee error and hacking_skimming_phishing
- cybercrime damage to hit \$6m annual by 2021
- Up to 200 billion devices need securing by 2020
- human attack surface to hit 4 billion by 4 billion
- What makes health care different?
- could have more than 200k endpoints in a hospital
- Risk of patient harm
- value of information
- Patients treat their health data much more sensitively (desire for privacy) than other types of data
- Number/diversity of applications
- need to interconnect diverse systems
- Number of different users/environments
- smaller low-resource organizations are part of critical infra responsible for patient safety
- what is at risk?
- PCI, PII, HIPAA, HITECH
- CPOE and mobile EHR
- Medical devices
- threat actors threat model in increasing order of risk

- accidental
- Hospital employee/accidental misuse
- Ione hacker/hobbyist
- Business associate
- script kiddy
- Disgruntled ex-IT / employee
- competitor
- Disgruntled patient
- APT
- Organized crim
- Hacker collectives
- cyber terrorism
- hacktivism
- ▼ New and now cyber security landscape
- ▼ IoT
- DOS on Dyn knock out connections to critical systems like EHR, web-based services
- Mirai IoT
- ransomware
- Targeting hospital EMRs
- Cyber attacks targeting medical devices
- Idea of cyber resilience
- About managing security w/ a multi-layered approach people, process, technology
- ▼ why?
- Avoid catastrophic failure
- ensures conversation goes beyond IT or InfoSec
- ▼ cycle
- Prepare/identify
- protect
- detect

- respond
- recover
- ▶ What can be done?
- Addressing regional cyber resilience
- governance
- planning and prioritization
- funding and investment
- operationalization
- Technology and infrastructure
- Remarks by Secretary of Executive Office of Public Safety (MA), Daniel Bennett
- MA is developing a 5th division within Public Safety, focused on cybersecurity/ intelligence. Will be announced in the next 2 weeks
- ▼ Remarks by CISO from Children's, Paul Scheib
- DDoS event post-mortem
- Regional cyber resilience maturity model
- ▼ governance
- Less mature no regional organization or ad-hoc at best
- more mature standing mechanisms to collaboratively address resilience are in place, exercised, and effective
- planning and prioritization
- Less mature
- more mature regional entities establish shared goals and objectives and assess performance against plans
- funding and investment
- Less mature
- more mature funding synchronized to address shared priorities
- operationalization
- Less mature
- more mature stakeholders consistently collaborate and take collective action

- ▼ Technology and infrastructure
- Less mature
- more mature tools, tech, infra support critical function resilience, O&M, regular updates are supported

#learning/conferences