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# State Cybersecurity Legislation: 2017

NCSL Cybersecurity Task Force

April 21, 2017



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# Agenda

- **Incidents/Threats**
- **Task Force Themes/Recommendations**
- **2017 State Legislation/Trends**
- **Task Force Members' Legislation**



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# Pennsylvania Democrats' computers hit by ransomware cyberattack

By Evan Simko-Bednarski and Lauren del Valle, CNN

🕒 Updated 8:06 PM ET, Sat March 4, 2017

**Hacker group attacks state website apparently in response to 'religious freedom' law**

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## California Senate Website Hit with Ransomware

*'All of our shared drive files have been encrypted with software typically used in ransomware attacks,' said spokesman Andrew LaMar.*

BY SAMANTHA YOUNG, TECHWIRE / JUNE 3, 2016

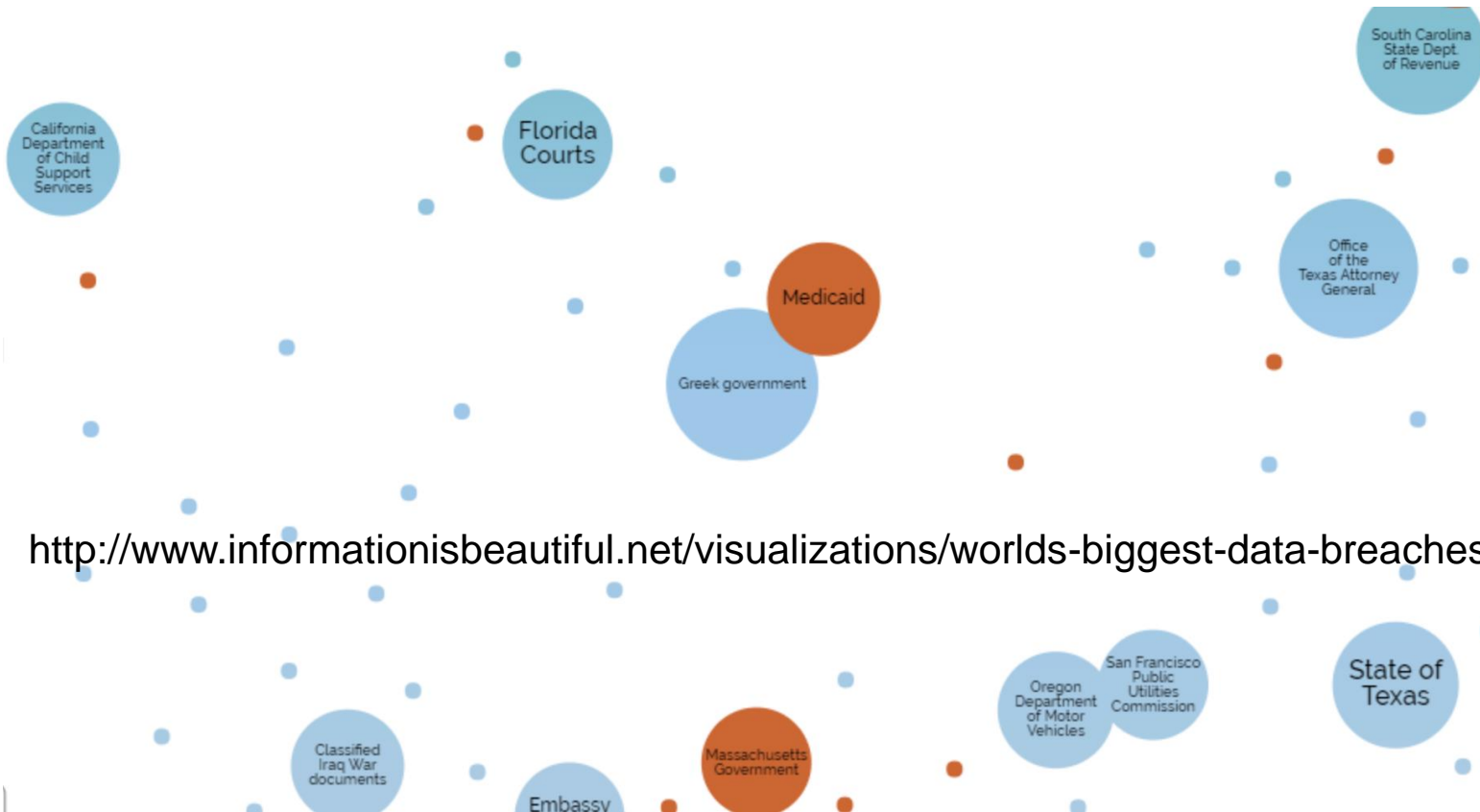


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## World's Biggest Data Breaches Selected losses > 30,000 records

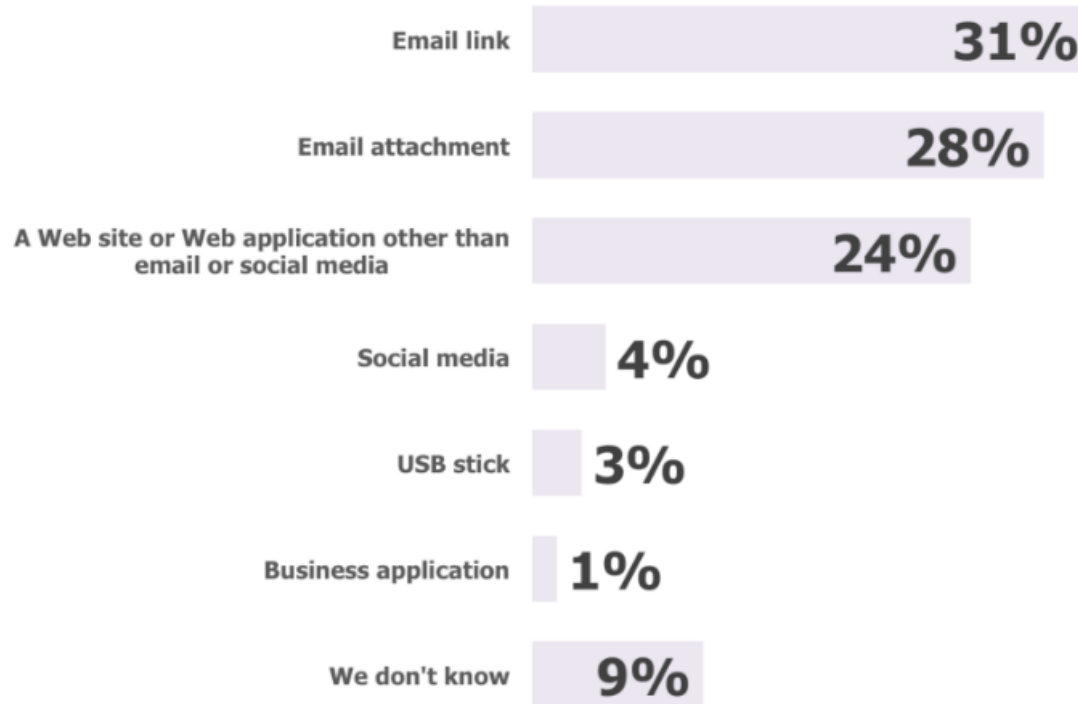


<http://www.informationisbeautiful.net/visualizations/worlds-biggest-data-breaches-hacks/>



# Most Common Vectors: Ransomware

Figure 12  
Applications by Which Ransomware Entered the Organization





## Most Common Vectors: Malware

### Safety 101: Main sources of threats penetration

The most dangerous sources and ways of malware penetration are the following:

1. The Internet



2. Email



3. Software vulnerabilities



4. Removable data storage media



5. Users' actions



Source: Kaspersky Lab, <https://support.kaspersky.com/viruses#block2>



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# Themes and Recommendations Cybersecurity Task Force Sessions

- Leadership Awareness and Expertise
- Budget for Cybersecurity
- Statewide IT Governance and Leadership
- Security Strategies/Cyber Hygiene/Combat Threats
- Incidence Response Preparation and Practice
- Promote Cybersecurity Workforce and Skills



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# What Are Legislatures Doing?

- **Awareness: Commissions and Studies**
- **Improving Governance & Security Practices**
- **Targeting Computer Crimes**
- **Promoting Workforce, Training, Economic Development**
- **Modifying Security Breach Notification Laws**



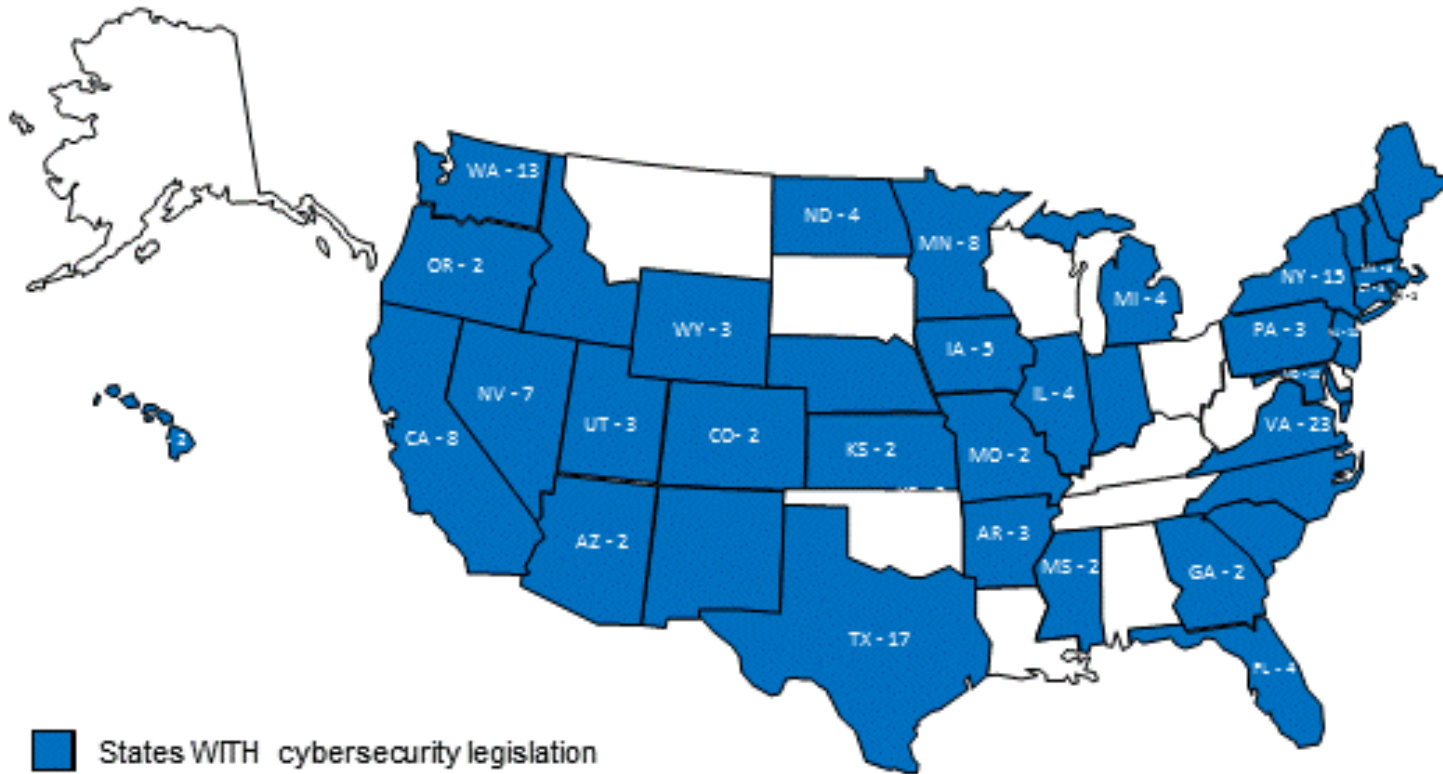


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# What Are Legislatures Doing? 2017 Introduced Cybersecurity Legislation



■ States WITH cybersecurity legislation  
□ States WITHOUT cybersecurity legislation  
# = no. of bills introduced (if > 1)

As of April 18, 2017



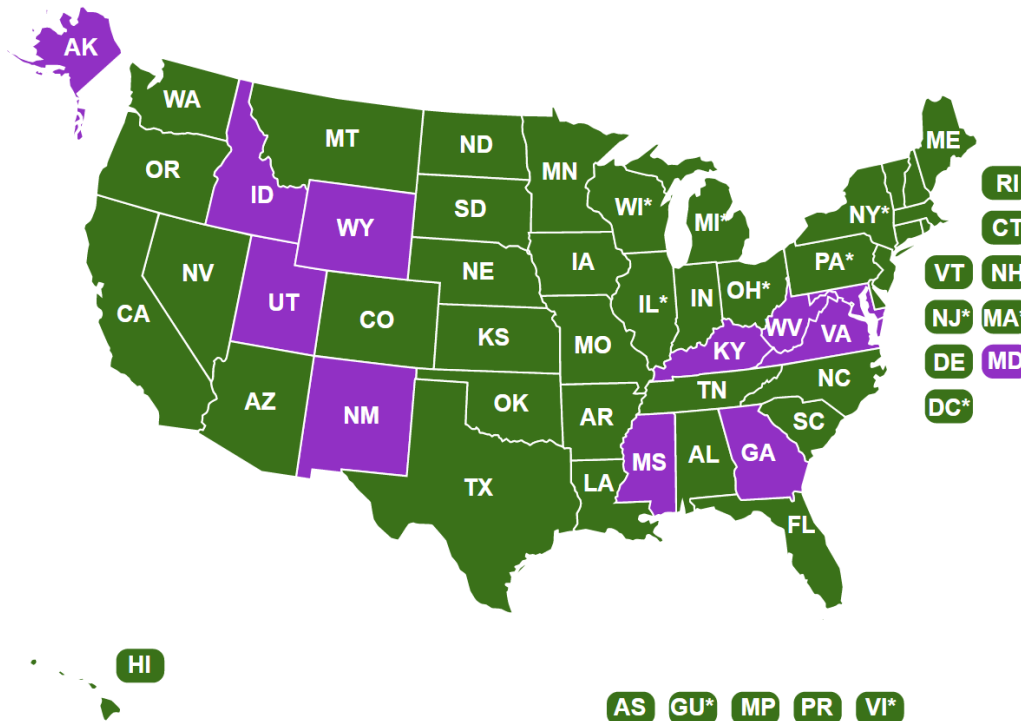
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## Session Calendar

Organizational Session	Not yet convened	In Session	Adjourned	In Special Session	In Regular/Special Session
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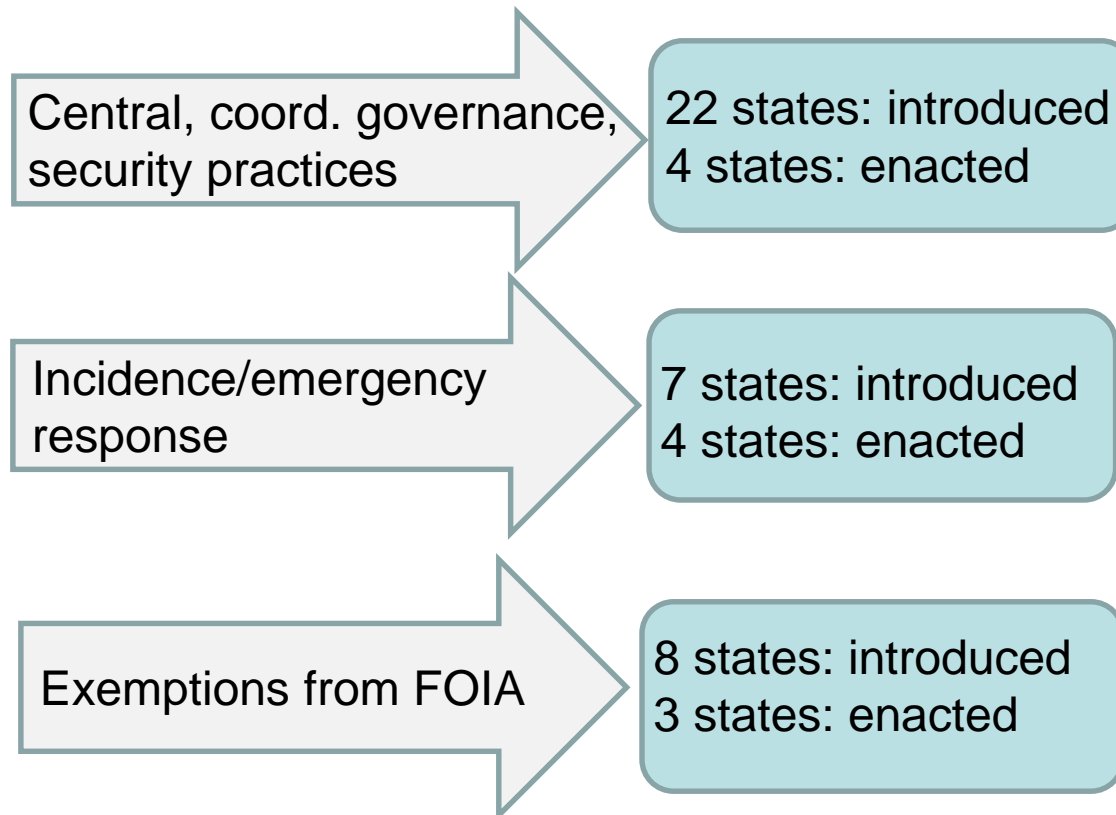
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# What Are Legislatures Doing?

## Improving Governance and Security Practices





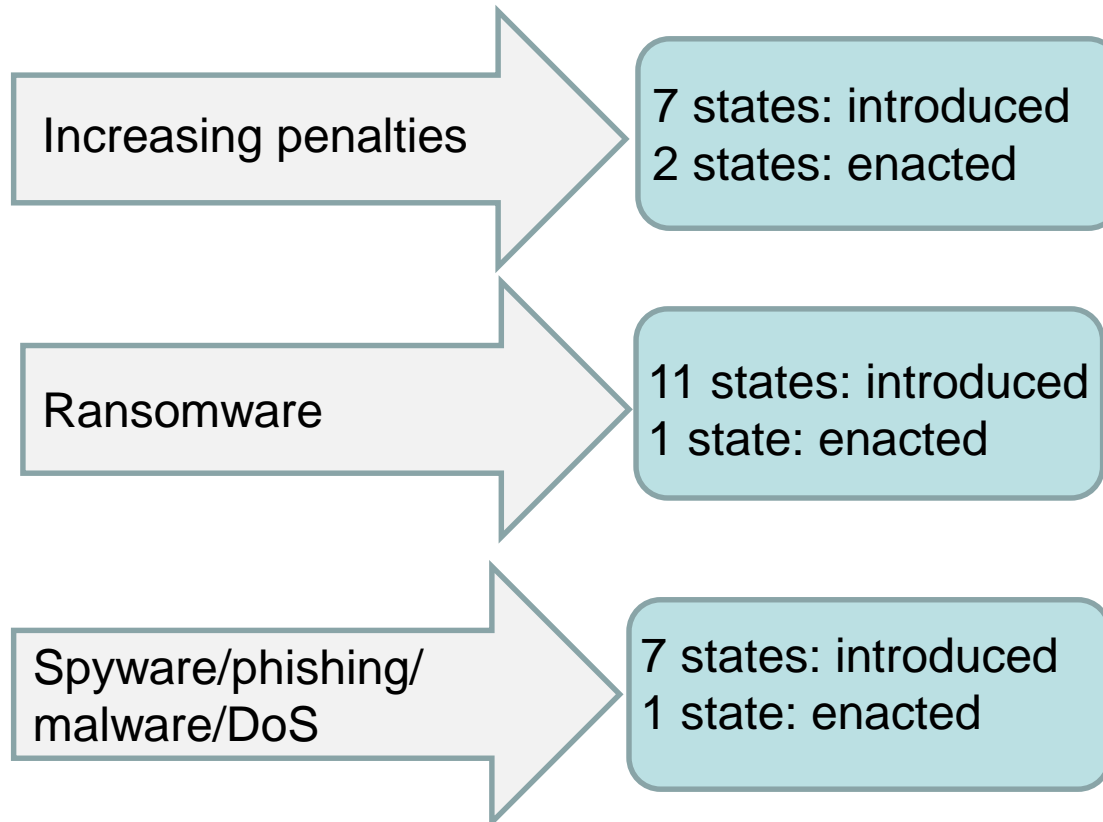
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# What Are Legislatures Doing?

## Targeting Computer Crimes





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# What Are Legislatures Doing?

## Workforce Training & Economic Development

Training/skills schools,  
higher ed

12 states: introduced  
1 state: enacted

Econ. Devel., R & D,  
tax incentives

4 states: introduced  
1 state: enacted



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# What Are Legislatures Doing?

## Security Breach Notification

- New Mexico – 48<sup>th</sup> state  
(Legislation also pending in Alabama)
- Tennessee – restored exemption for encrypted information
- Virginia – requires notification to AG of breach of taxpayer ID



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# What Are Legislatures Doing?

## Other Areas

- Energy, critical infrastructure
- Elections
- Student data



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# Task Force Members' Sponsored Legislation