



# **PROTECTING ARIZONA AGAINST CYBER THREATS**

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## **THE ARIZONA CYBERSECURITY TEAM**



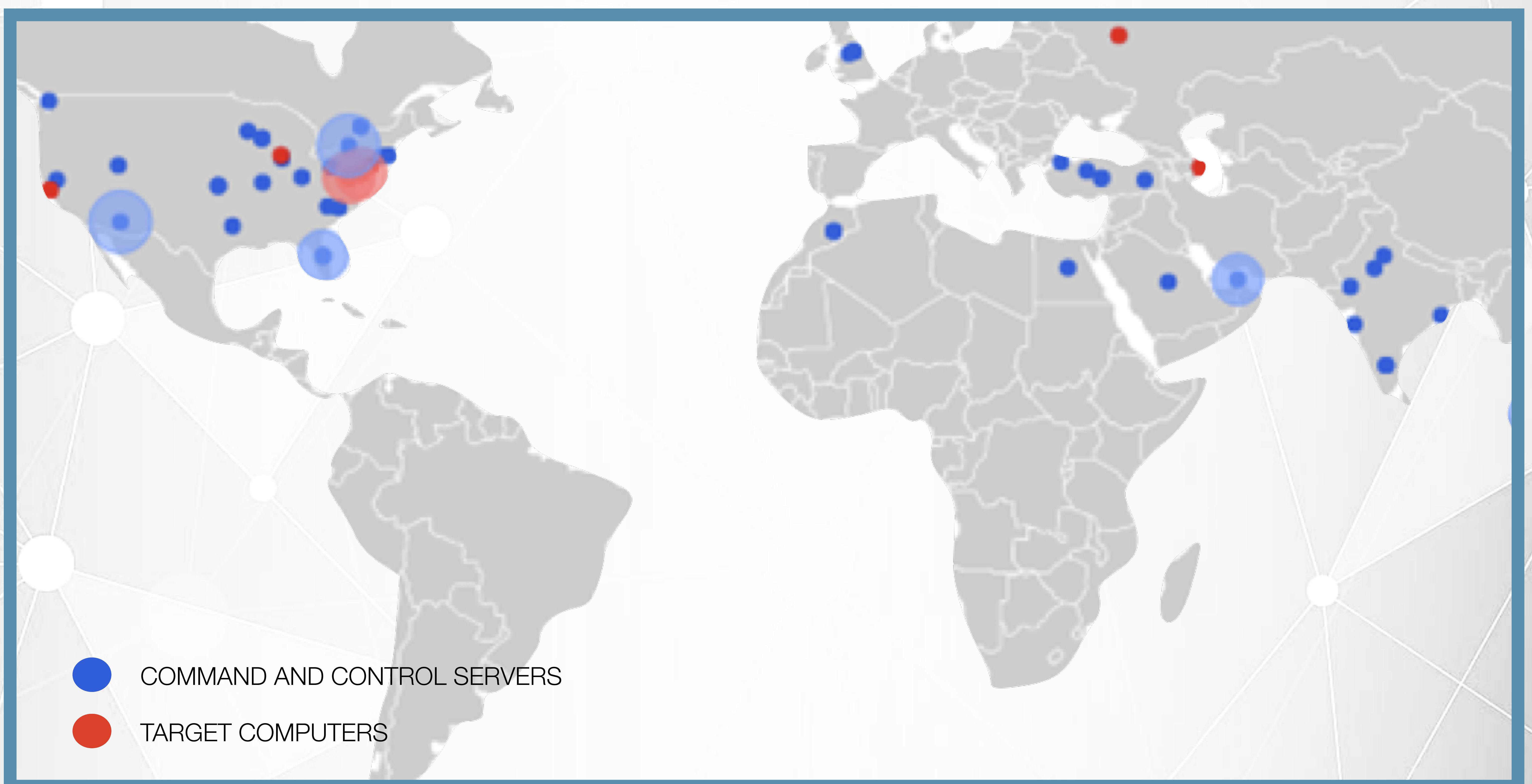
# PROTECTING ARIZONA AGAINST CYBER THREATS

## THE THREAT WE FACE

On average, the Department of Administration information officers identify:

- 200 brute force attempts per day;
- 500 Trojan attacks per day;
- 35,000 malware attacks per month;
- And 500 SQL injection attacks per month.

## Attacks Originate From All Over The World





## DATA BREACH COSTS

### Texas Comptroller Data Breach (April 2011):

- The inadvertent disclosure of state records caused the breach of personal information, including social security numbers, for **3.5 million individuals**.
- Costs to address the breach exceeded **\$1.8 million** through sending letters to those affected, setting up a call center, and hiring consultants to re-examine information management policies.

### Utah Health Care Data Breach (March 2012):

- A hacking resulted in the breach of **280,00 individuals'** Social Security numbers.
- Costs to address the breach exceeded **\$9 million** for actions including running security audits and upgrades and providing credit monitoring for those affected.

### Home Depot (April - Sept. 2014):

- A 2014 hacking of self-checkout terminals resulted in a breach affecting over **50 million** credit card holders.
- In addition to legal fees, costs to address the breach exceeded **\$179 million**, according to court documents.

### Target (Nov. - Dec. 2013):

- A hacking resulted in the theft of credit card information for **40 million customers**.
- The cost of the breach, including settlements and legal fees, reached nearly **\$300 million**.

### Additional Facts

- A 2017 survey by the the Ponemon Institute found the average costs of data breaches to companies exceeds **\$7 million**, an increase of 5% from last year and record high since the survey's start.



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## A STATE OF CYBERSECURITY

Using an industry best-practice tracking system, Arizona set out in Oct. 2016 to quantify and improve the state's cyber defenses. Using a program known as RiskSense, Arizona measures and tracks cyber preparedness similar to an individual's credit score.

700

Industry average cybersecurity score.

638

The State of Arizona's cybersecurity score in Oct. 2016.

752

The State of Arizona's cybersecurity score today.

**Arizona is a home to leading cybersecurity experts, all engaged to protect the privacy and identity of residents in our state and nationally.**

- Arizona is home to two Cyber-Warfare Ranges.
- Fort Huachuca in Sierra Vista is home to NETCOM and the Army Intelligence Center, which provides training for intelligence personnel to support all cyber operations in the Army and Department of Defense.





# PROTECTING ARIZONA AGAINST CYBER THREATS

## EXECUTIVE ORDER — TAKING ACTION

### EXECUTIVE ORDER

On March 1, 2018, Governor Ducey signed an Executive Order to further address the serious and consistent threat of cyber-attacks.

The Executive Order establishes the Arizona Cyber Security Team to allow for enhanced collaboration and information sharing between public and private sector organizations, and prescribes measures to further Arizona's goal of being the most cyber-prepared state in the nation.

### ARIZONA CYBERSECURITY TEAM

The Arizona Cyber Security Team will develop recommendations and continuously advise the Governor on cybersecurity issues, receive quarterly updates from the State Chief Information Security Officer, advise on federal resources available to combat cybersecurity threats and take steps to ensure Arizona is a nationwide leader on cybersecurity.

The team will also develop measures to increase cybersecurity and IT related workforce development and education.

*“In today’s world, the threat of cyber attacks is persistent and constantly evolving, which is why we are taking proactive steps to mitigate that threat and making sure agencies continually improve their cyber defenses.”*

— Governor Doug Ducey



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## EXECUTIVE ORDER — TAKING ACTION

### ENHANCED COLLABORATION

The Arizona Cybersecurity Team consists of representatives from government, the private sector, law enforcement, non-profit organizations and higher education as well as members of the public to more comprehensively address cybersecurity issues statewide.

#### ARIZONA CYBERSECURITY TEAM MEMBERS

- Governor's Office
- Secretary of State's Office
- Attorney General's Office
- The Chief Information Officer (CIO) of the State of Arizona
- The Chief Information Security Officer (CISO) of the State of Arizona
- Arizona Department of Public Safety
- Arizona Department of Homeland Security
- Arizona Department of Emergency and Military Affairs
- Arizona Commerce Authority
- A representative of Information Sharing and Analysis Organization
- A representative of critical infrastructure (energy, telecommunications, or transportation)
- An Arizona member of Congress
- Two representatives from the private sector
- Two members from the Arizona legislature;
- Two representatives of federal law-enforcement agencies;
- Two representatives from local government (at least one rural);
- Two representatives from universities or colleges.