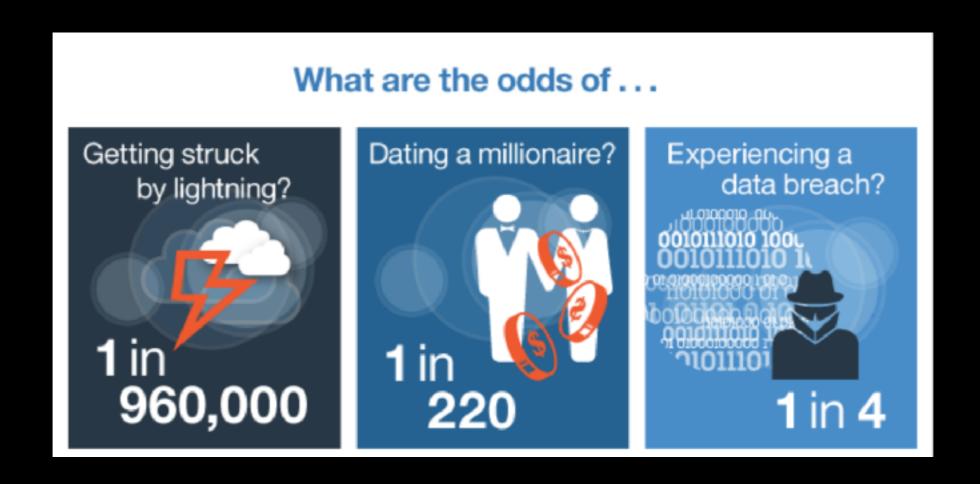
# Securing Ansible

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# A Breach Costs About \$4 Million Big Ones



### Security Goals

- Build on a chain of trust
- Authenticate all requests
- Authorize w/ least amount of privilege
- Audit everything

...and do it with code!





# Conjur Concepts

- Machine Identity
- Establishing the unique identity of non-human actors in a network in order to control access privileges.
- Authentication
- Establishing that the requestor of access is who/what it claims to be machine or human.
- Declarative Policies
- "Security Schema" human readable, machine parseable documents describing the principals, resources and privileges for a deployable unit, e.g. application, tool, development team, etc.
- Secrets Injection
- Retrieving secrets on behalf of a process such that they are available to the process when/ as needed, and disappear as soon as the process exits.

### Security As Code

- Ansible automation is declarative
  - Playbook describes desired state (the what)
  - Ansible configures/remediates to that state (the how)
- Security tools need to follow suit w/ declarative security policies
- This has multiple benefits:
  - Versioned, like source code
  - Collaborative
  - Proactive security, not just auditing and forensics after-the-fact
  - Active Directory as a cautionary tale
  - Automated audit/compliance workflows
  - Determine if current state aligns with desired state (or not)
  - Ensures consistency across teams, environments and domains

#### Resources

- conjur.org Conjur information portal
- https://www.conjur.org/integrations/ansible.html
  Ansible integration information
- https://github.com/cyberark/ansible-role-conjur
  Open source repository for Ansible integration