

# Solution Guide: Implementing Security Controls

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In this activity, you had to draft the final piece of recommendations submitted to GeldCorp.

There are multiple solutions. Below are some examples.

Control suggestions:

1. **Implement a turnstile.** The organization could implement turnstiles in all of its data centers.
  - These turnstiles would only allow one person through at a time and require employees to scan an ID card to proceed.
  - This requires installing the system at all sites, and issuing keycards to all employees, both of which have significant costs attached.
  - However, a financial organization might deem the added security of such physical access controls worth the expense.
2. **Encrypt top-secret data.** The attacker wouldn't have been successful if they'd broken into the data facility and stolen *encrypted* financial records.
  - The organization could choose to encrypt all of its top-secret data, and only allow it to be decrypted by a single server, verified by digital signature.
  - As an advanced suggestion, the company could then choose to allow access to that decrypted data via API, and restrict access to this API to only trusted individuals. This is a technical control.

These suggestions could be implemented *on top of* or *separately from*, the training solution.

**Stacking** solutions that address the problem in different ways strengthens your security perimeter and makes your system more robust to failure.

