DATA BREACH
IMPACT REDUCTION

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Who is CardConnect?

- Largest First Data ISO
- Merchant Acquirer with a Gateway
- Security Solutions (Tokens, P2PE)
- Recently public, symbol CCN
- 200 Employees in Pennsylvania

Impacts of a Breach

- How many cards were compromised
- Forensics efforts to determine how
- Notifications to card brands, all stakeholders
- Inevitable second guessing, how did this happen?
- Management completely distracted, responding to inquiries, investigations, one to two years
- Reputation and business partner impacts
- Brand fines $200+ per account
- Legal and investigative expenses enormous
- And more

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Four Suggestions

- Delete what you don’t need
- Archive what you might
- Segment your network
- Sanitize sensitive data with Tokens

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Delete data you don’t need

Do your databases look like this?
Years or decades of Toll records?
That’s a lot of data…

We all like to save our data!
Just because we can.

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Archive what you might need

> Archive what you really need, delete what you don’t

> Don’t keep it online just because you might need it

> Create an archive server that only two staff members have access to

> Move data that is no longer required for day-to-day business

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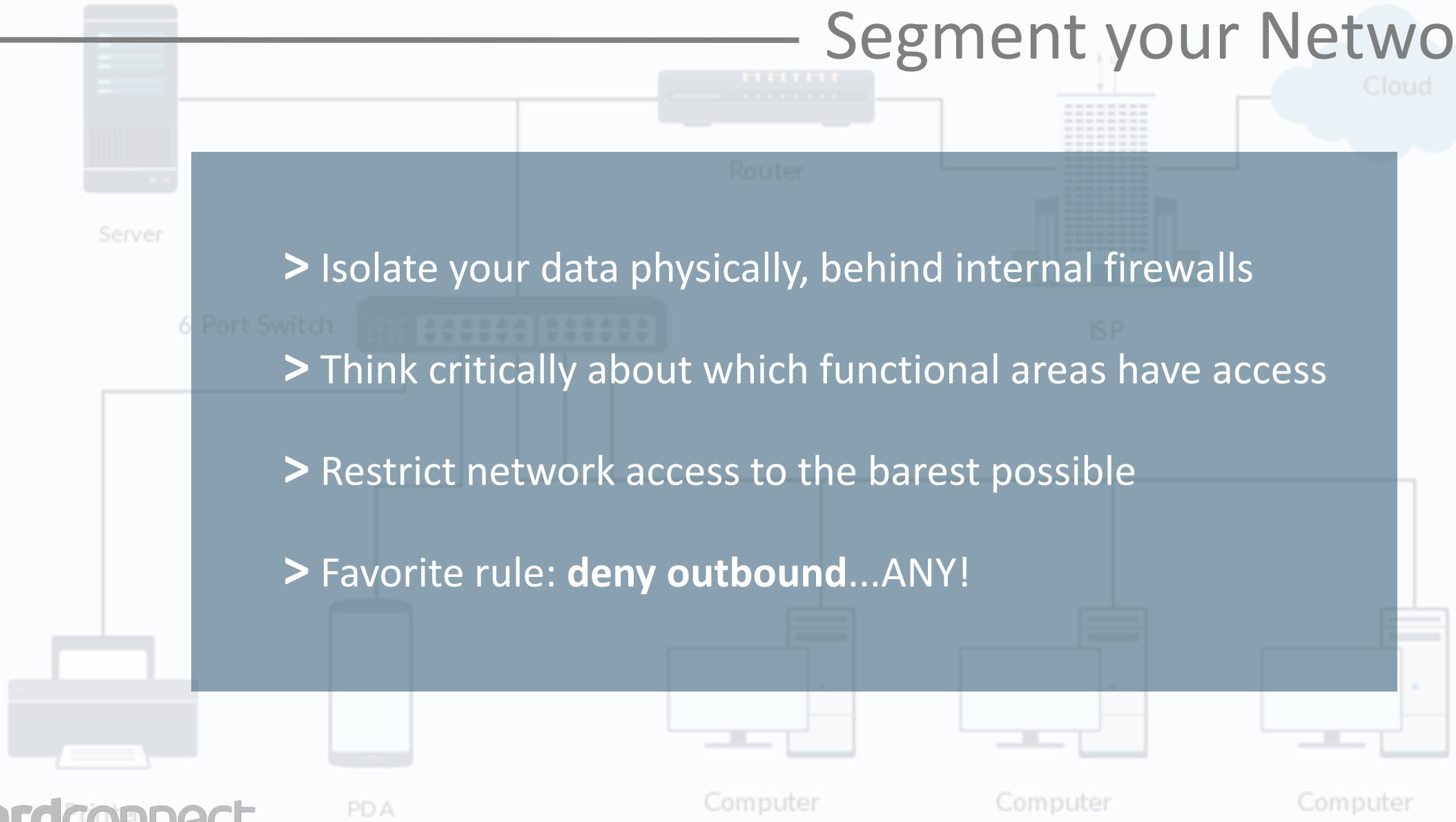
Segment your Network



> Isolate your data physically, behind internal firewalls

> Think critically about which functional areas have access

> Restrict network access to the barest possible

> Favorite rule: **deny outbound**...ANY!

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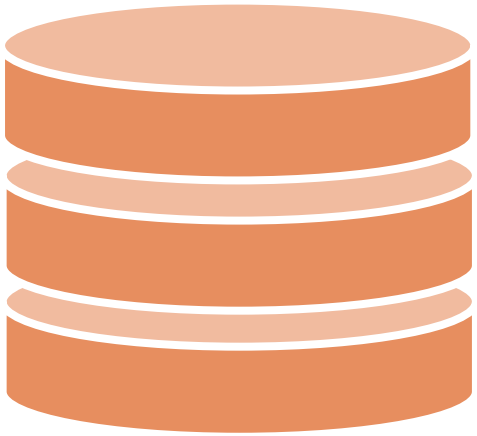
Sanitize sensitive data with Tokens



> For sensitive information you need to keep around, protect it with **tokens**

> **Think about this**....in the 1950s, the NYC Transit Authority instituted the subway token to replace actual money – this provided an additional layer of security (*tokens have no monetary value outside of subway rides*!)

> Payment tokens convert 4111111111111111 to 9419456598751111 for your databases

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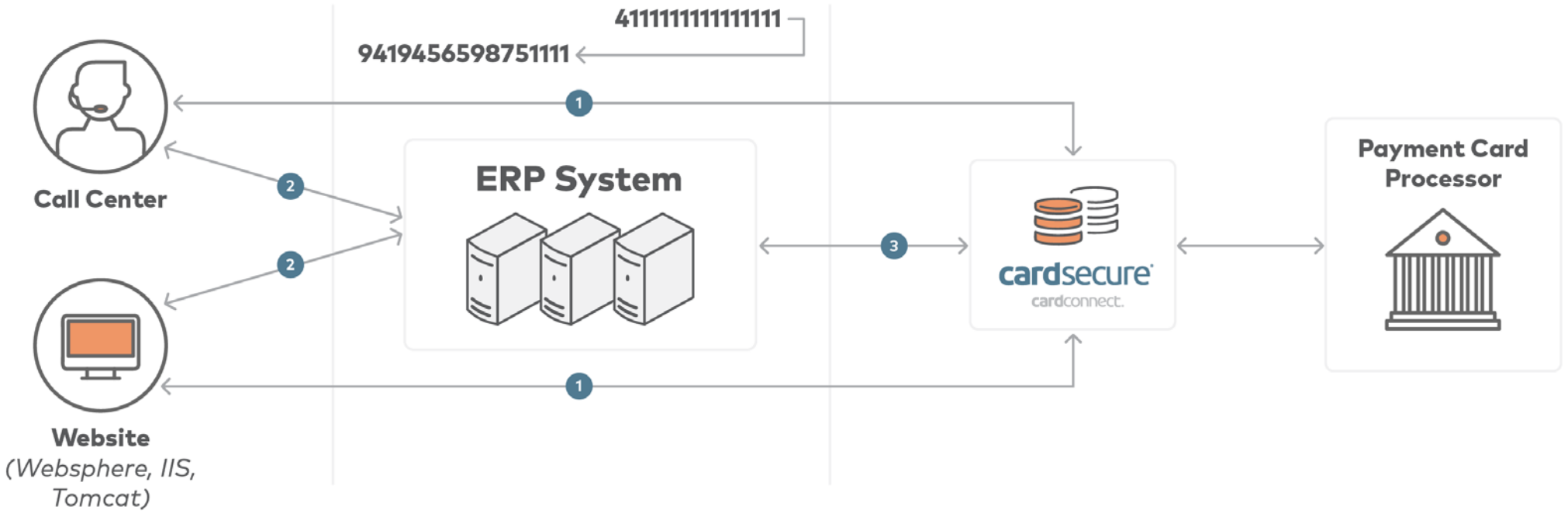
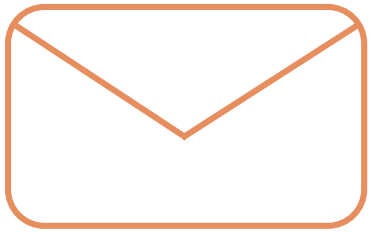
Token Process Flow



THANK YOU



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