Universal Data Access

with SQL/MED

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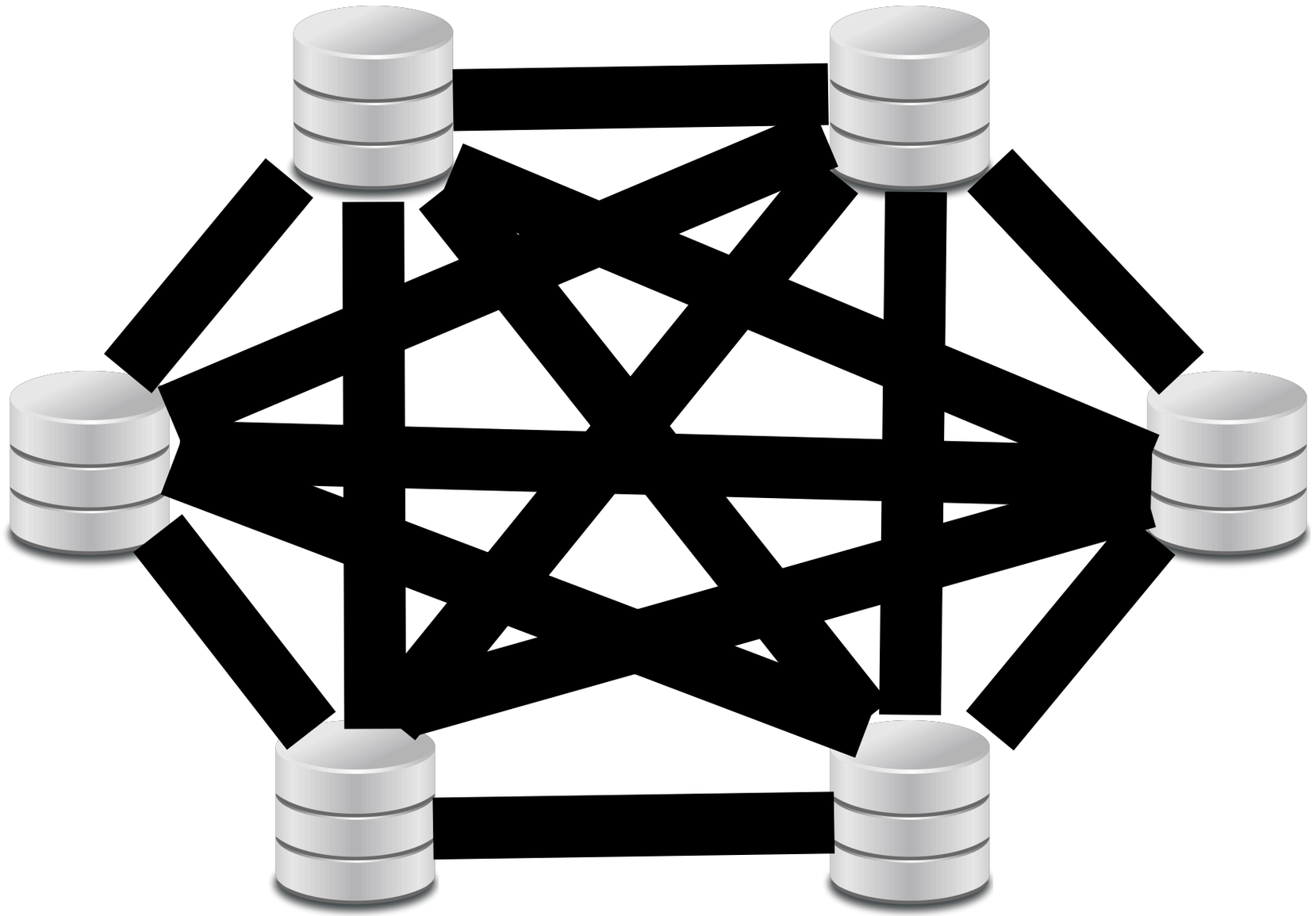
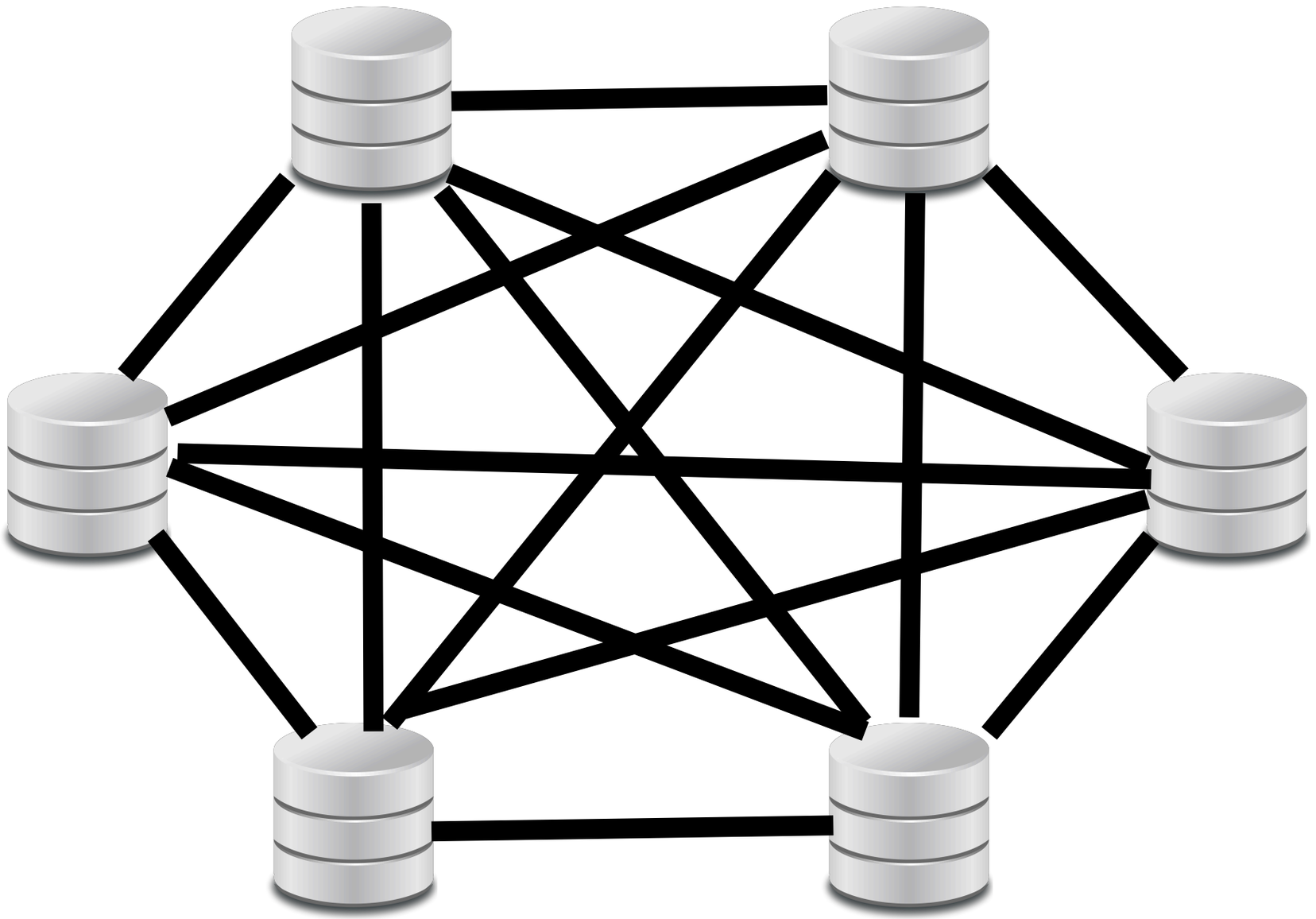
Obligatory Baby Picture

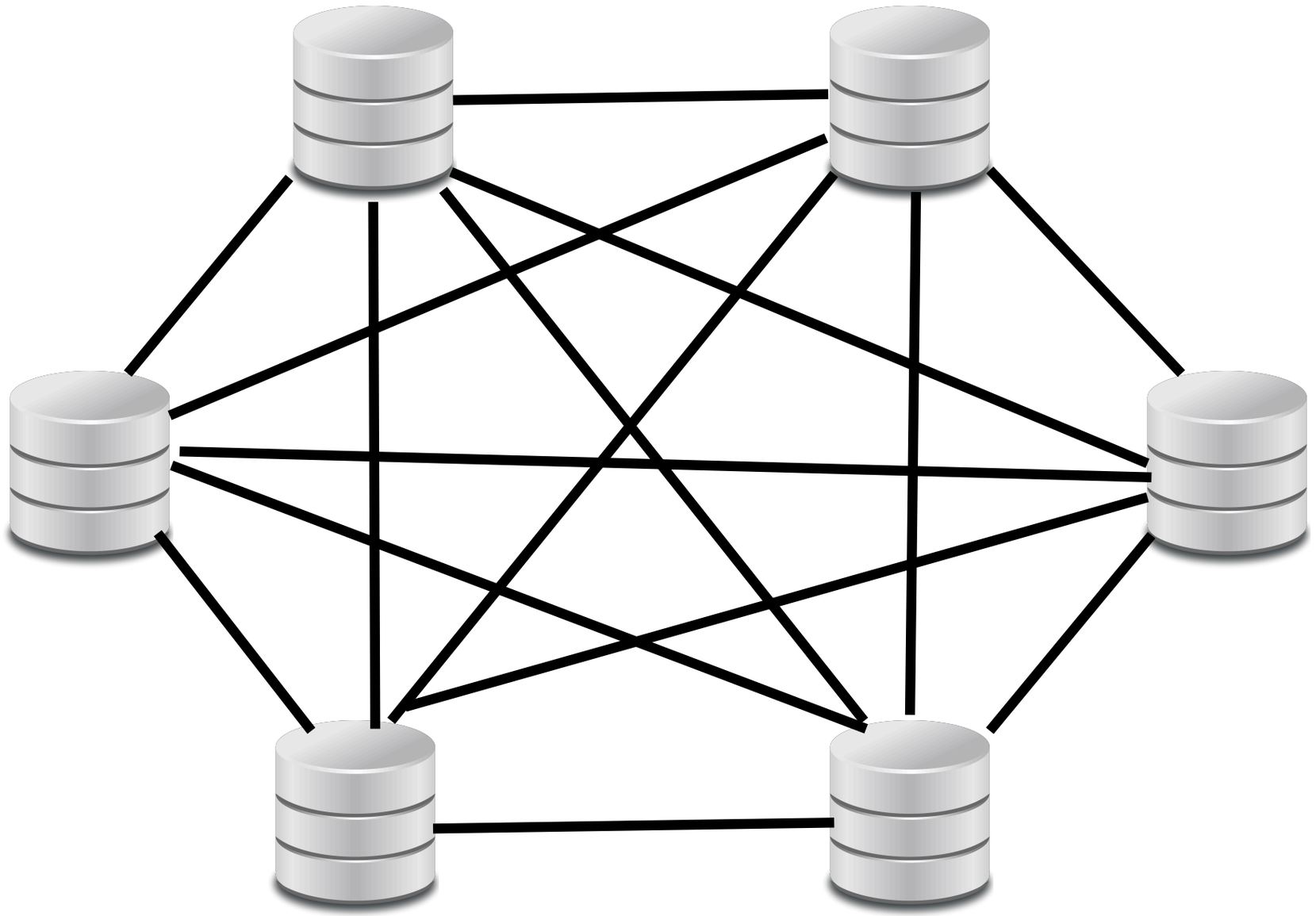
The Big Picture

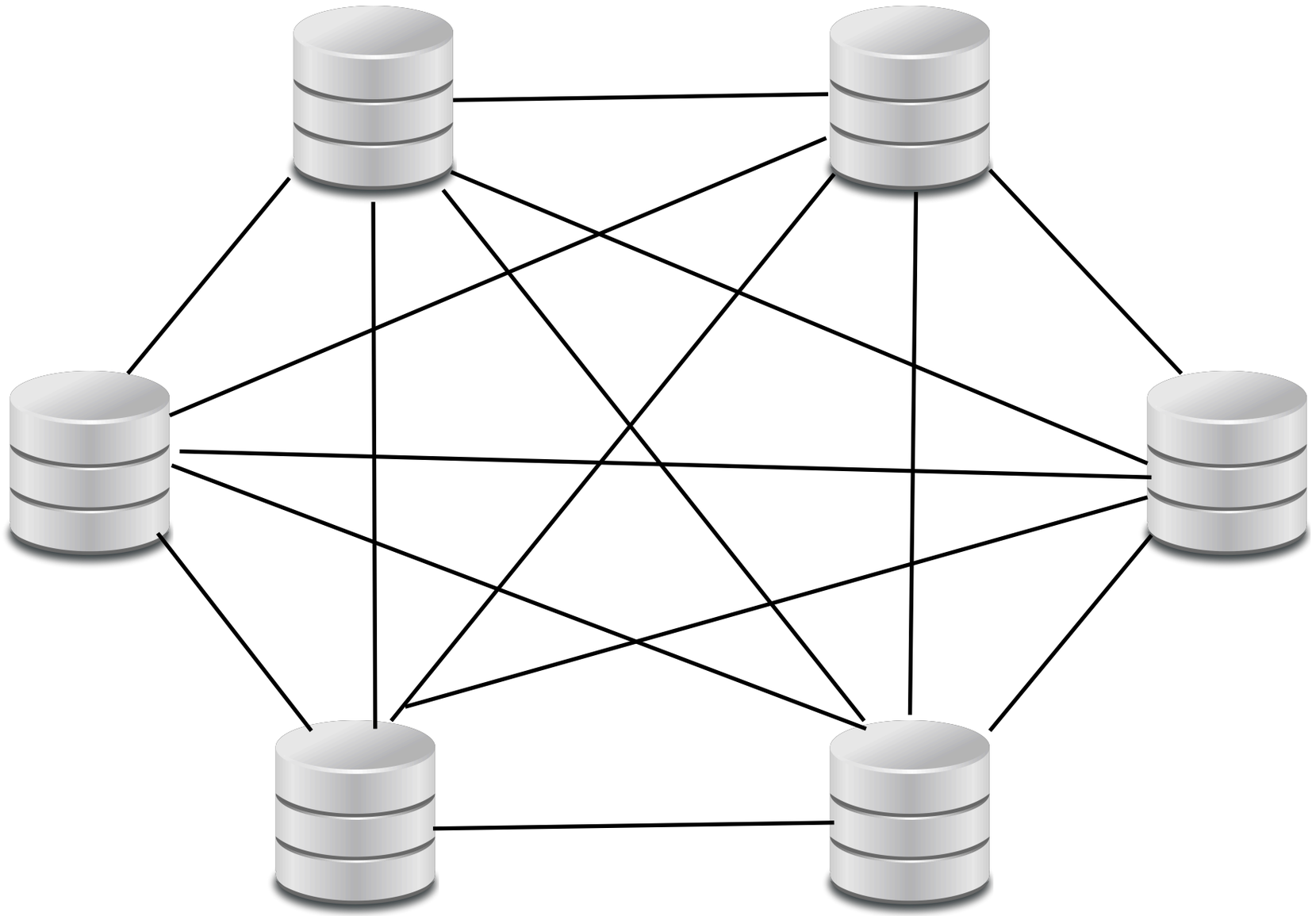
Hard Drive Space Doubles Every 14 months

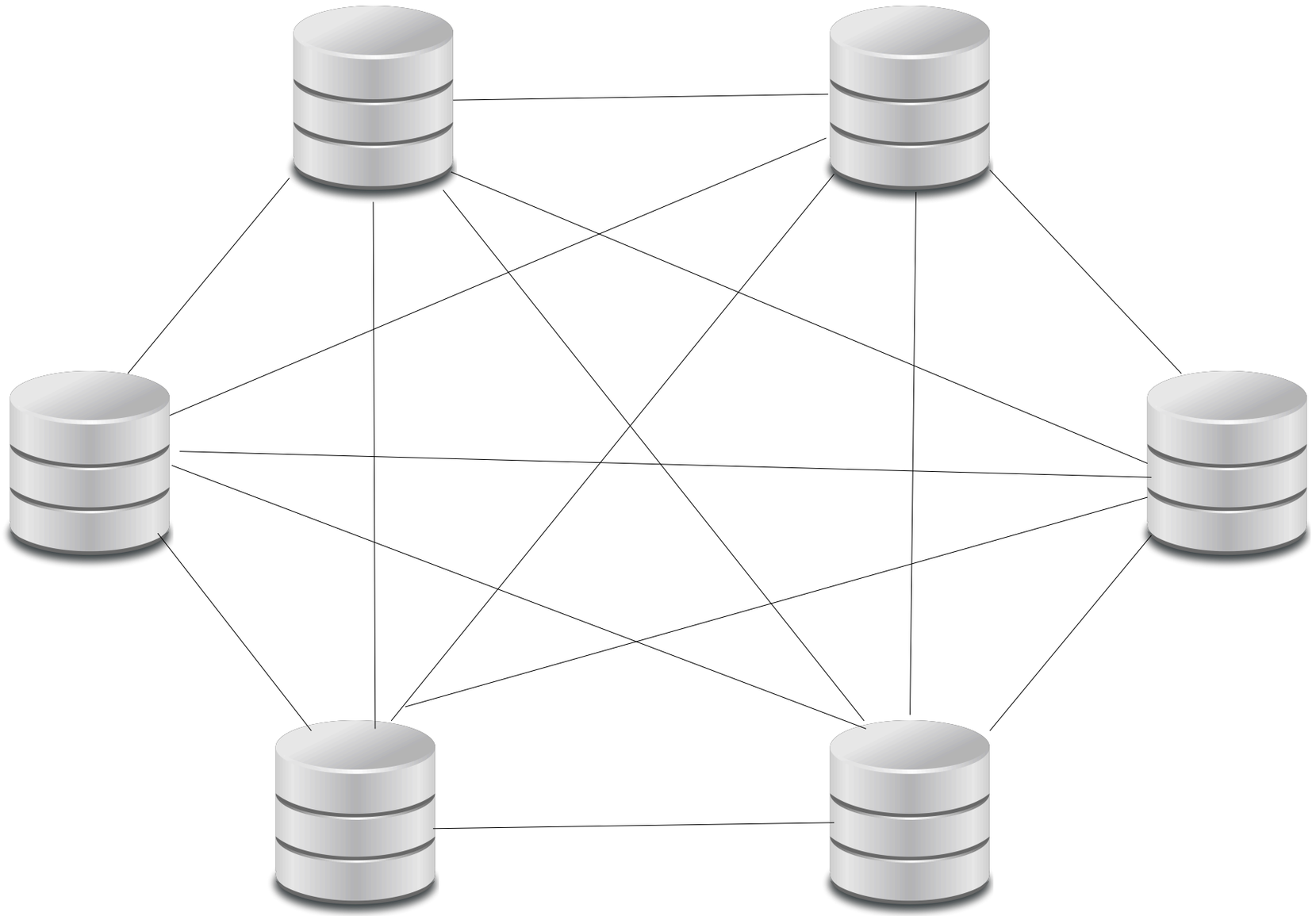
Bandwidth Doubles Every 2.4 years











Disaster!

The extinction of the human race will come from its inability to EMOTIONALLY comprehend the exponential function.

Edward Teller

Approach:

SQL/MED

RADICALLY

Reduce netwoRk tRaffic

Encoding?

Not even close.

Stream compression?

Won't do it.

Push Code

★Predicates

★JOINs

★Aggregates

YES!

Timeline

(horribly incomplete)

2003: SQL/MED defined in SQL Standard

2004: DBI-Link started

2005: DBI-Link 1.0

2007: DBI-Link 2.0

Two Years Pass

2009: SQL/MED: Doping for PostgreSQL

2011: Support for foreign tables (9.1)

2012: More support for foreign tables (9.2)

2013: Write interface, JOIN pushdown (aimed at 9.3)

201?: Aggregate pushdown, per-source optimization...

????: Stále více a více a více...

Resources

- Ye Wikie
- Bernd Helmle's Excellent Talk
- pgsql-hackers@postgresql.org

- Questions
- Comments
- Advice about my mental state
- https://2012.pgconf.eu/feedback

Děkujeme!