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## Building test data environments & keeping it secure

Optim Solutions

IBM Software

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## Question time

Consider the non production environments for your largest application (SIT, DEV, UAT, Perf test, training etc)

- <5 non production environments?
- 5-10 non production environments?
- 11 or greater?
- More???



## Challenges associated with Test Data



### Business

- Application errors in production
- Slower application releases
  - Need new features ASAP
  - Application becomes “stale”

### IT

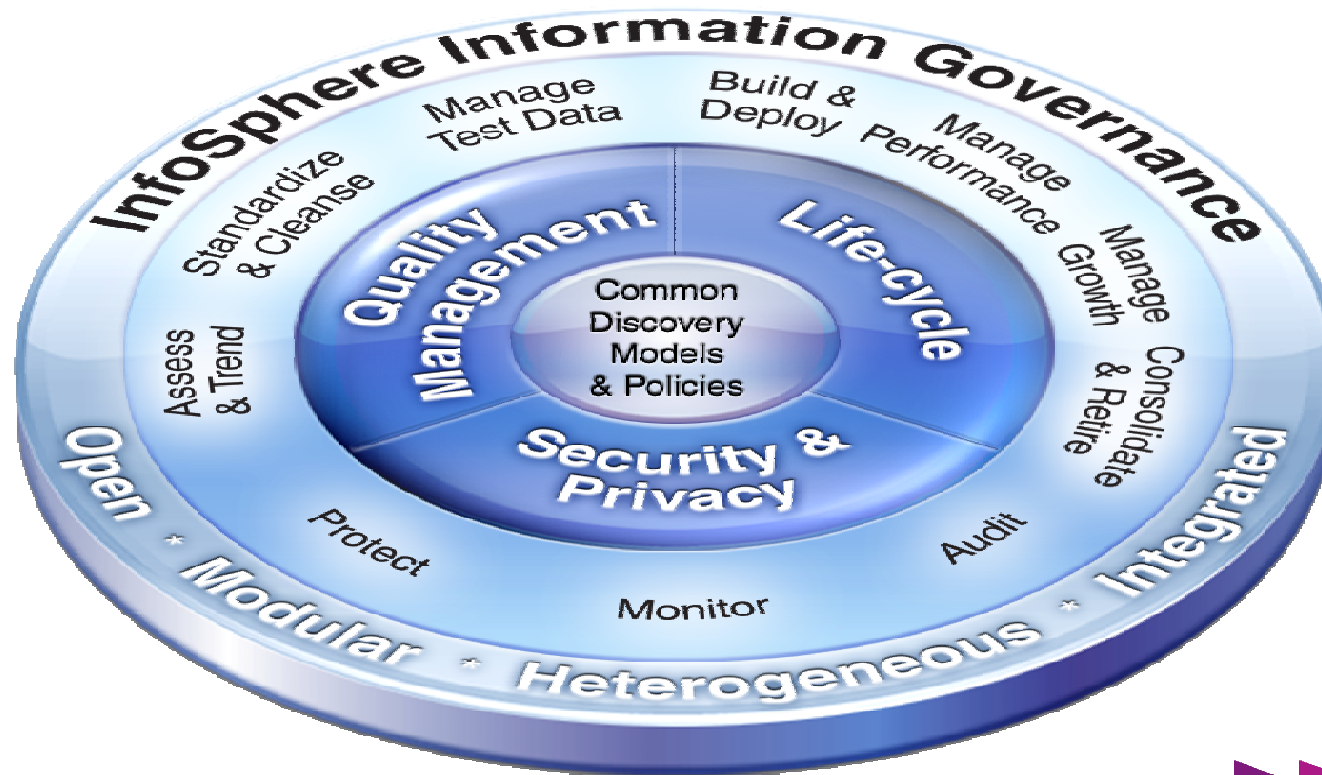


- Storage cost spiral due to cloning
- Constantly use production like data for testing
- DBA effort to maintain non production environments
- Inaccurate test results
  - Age of data
  - Data “recycled” during testing
  - False result testing?
- Extended testing phases

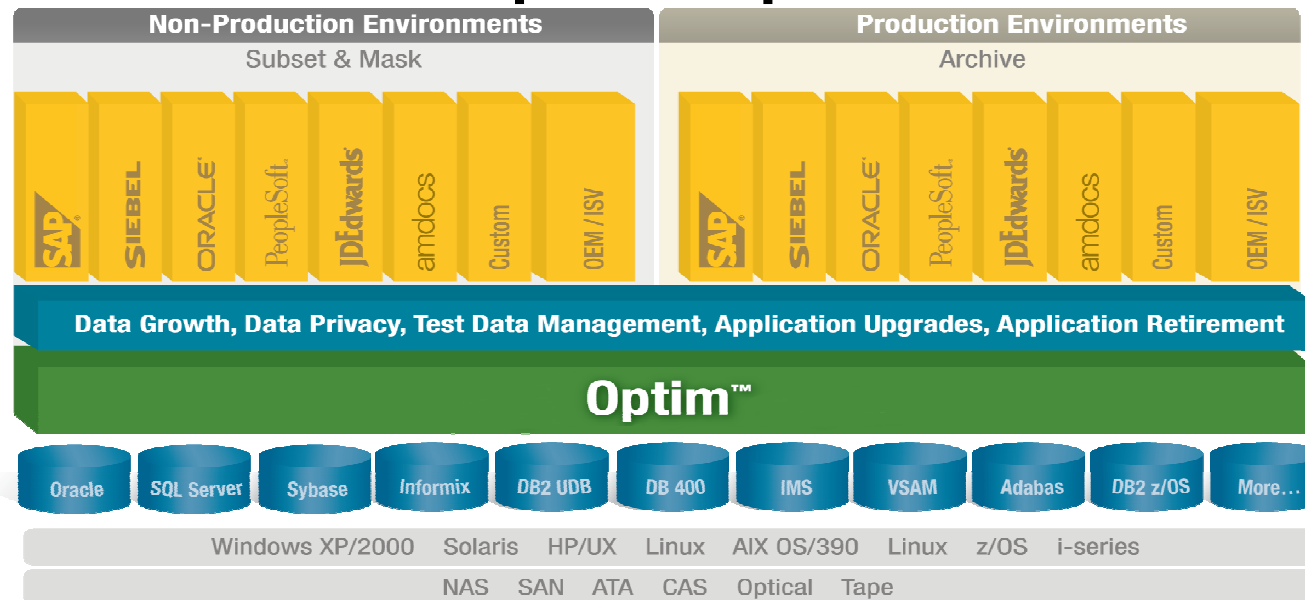
# DBA Stress



# The InfoSphere Information Governance Platform



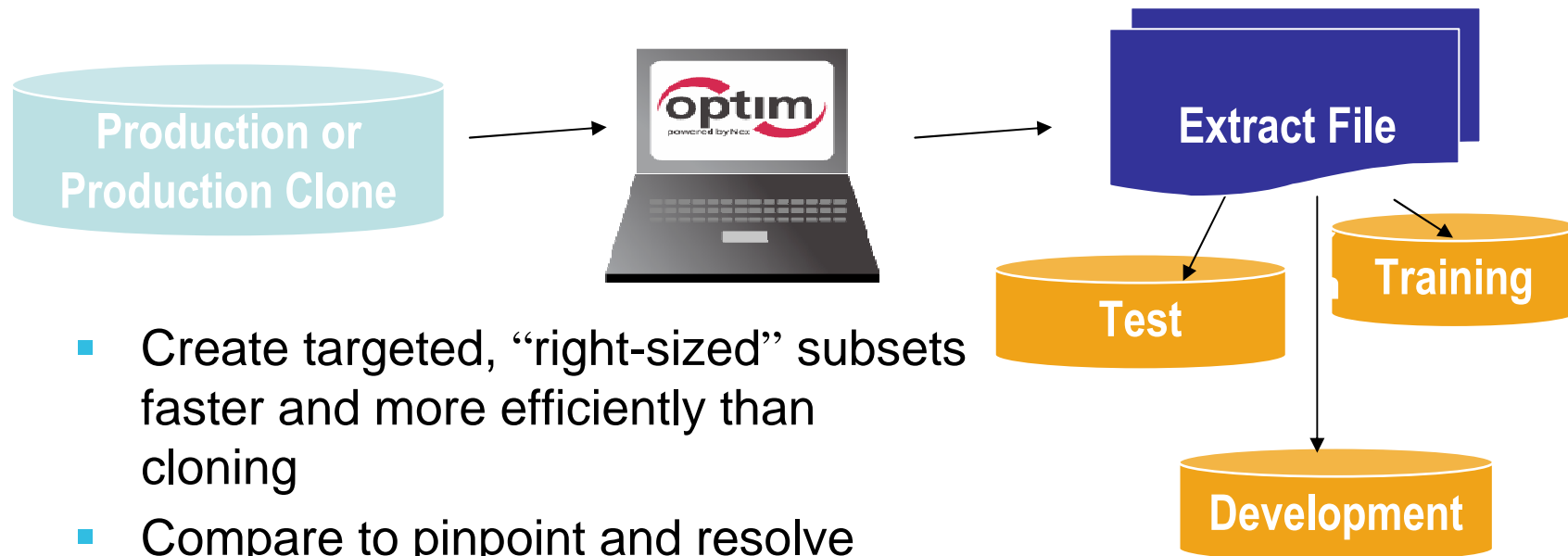
# What is IBM Infosphere Optim solution?



- Single, scalable, interoperable EDM solution provides a central point to deploy policies to extract, store, port, and protect application data records from creation to deletion



## Optim™ Test Data Management Solution



- Create targeted, “right-sized” subsets faster and more efficiently than cloning
- Compare to pinpoint and resolve application defects faster
- Improve development efficiencies





## Benefits of Optim Test Data Management solution



### Business

- Faster application releases
- Less application release errors

### IT



- Smaller, more manageable non production environments
- Speed iterative testing cycles
  - Ability to regression test
  - Power to refresh data easily
- Reduce application errors
- Test error conditions
- Compare data before and after test cycles

## Client Success: Test Data Management

### About the Client



Industry  
Banking

Annual Revenue  
\$4.4 Billion

Application  
Oracle E-Business Suite

Solution  
Optim™ Test Data  
Management Solution for  
Oracle E-Business Suite

#### ■ Challenges:

- Preparing for two development environments with different criteria. Needed to create realistic, right-sized test databases more effectively and efficiently. Simply copying the entire production environment would take weeks.
- For each test environment, it needed to include specific tables, including reference data, from the latest production data to perform targeted test scenarios that validated error or boundary conditions.

#### ■ Client Value:

- Reduced the time needed to create a test environment by up to **93%** (from 28 days to just 2 days).
- Improved test data performance by creating each test environment specific to the test/QA requirements, reducing the time to create the environments and the amount of disk capacity needed.
- Improved time-to-deployment of new application functionality, contributing to critical business/financial initiatives.



# Data Security



## The Corporate View of Data Privacy

- Read all about it...
  - Data breaches
  - Identity Theft
- Laws are multiplying
  - PCI
  - GLBA
  - HIPAA
  - Data Breach Notification Acts
- 6 Data Breaches per F1000 company per year is the Industry Norm\*
- Data Privacy Projects are still more reactive then proactive
- Development, Backup and Testing environments remain vulnerable!
- Bottom Line...Companies are having trouble securing sensitive data!

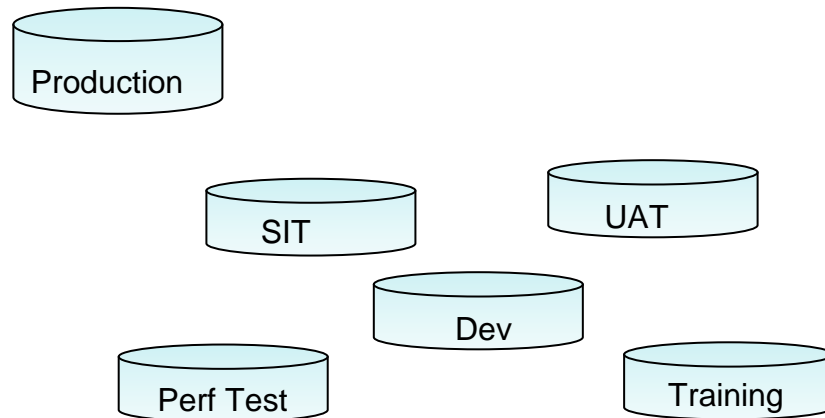


\* Source: IT Compliance Group, 2007



## So where is sensitive data kept?

### A. Everywhere

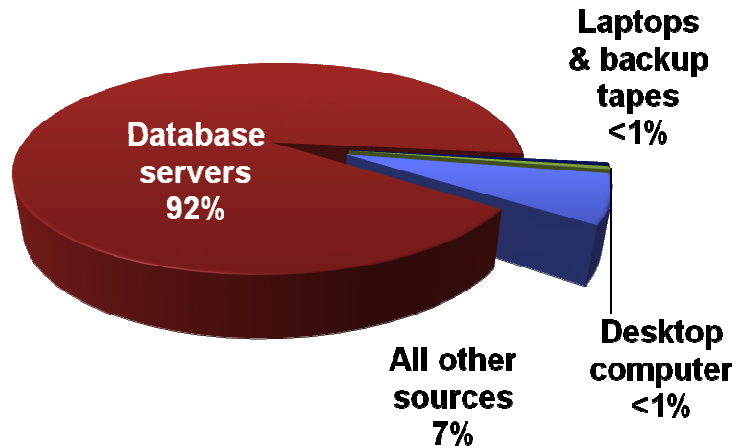


- ERP
- CRM
- Billing
- Customer
- Data Warehouse
- Reporting



# Database Servers Are The Primary Source of Breached Data

**% of Records Breached (2010)**



“Although much angst and security funding is given to offline data, mobile devices, and end-user systems, these assets are simply not a major point of compromise.”

*...up from 75% in 2009*

2010 Data Breach Report from Verizon Business RISK Team

[www.verizonbusiness.com/resources/reports/rp\\_2010-DBIR-combined-reports\\_en\\_xg.pdf](http://www.verizonbusiness.com/resources/reports/rp_2010-DBIR-combined-reports_en_xg.pdf)



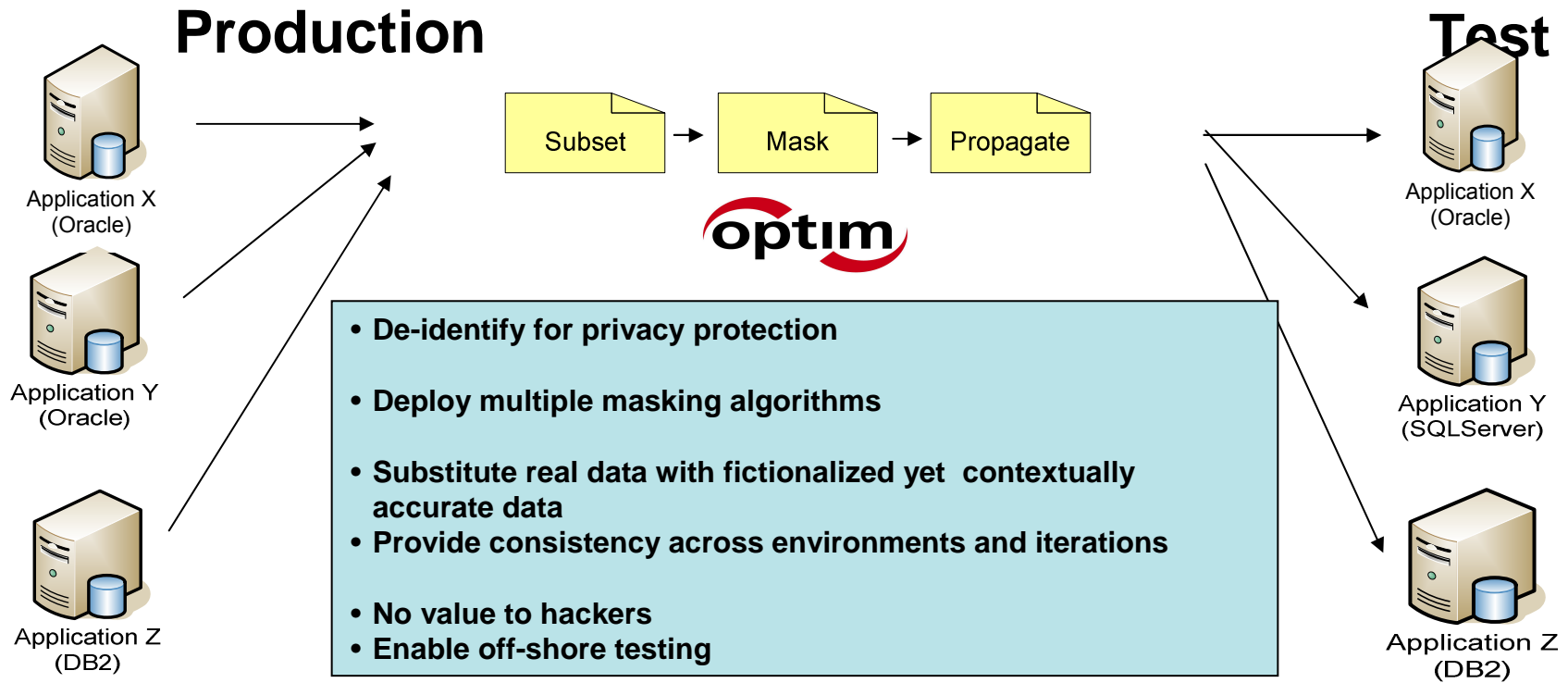
## What is sensitive data?

- Personally Identifiable Information (PII)
- Financial Data (General ledger)
- Strategic information (buyouts, mergers)

All of it is valuable to someone who has the intent to steal it and use it to their advantage



# The Optim™ Data Privacy Solution



*Ensure Data Privacy Across Non-Production Environments!*





## Benefits of Optim Data Privacy solution



### Business

- Protected customer base
- Compliance against privacy legislation and regulations
  - Specific industry requirements
- Audit ready data

### IT



- Provide a range of easy to use data privacy options for masking data
  - Valid CC numbers
  - Australian addresses
- Relationally de-identify data across the database
- Ability to share data with 3<sup>rd</sup> parties

## Client Success: Data Privacy

### About the Client



Industry  
Government

Child Protection services

Application  
Siebel With Oracle  
backend

Solution  
Optim™ Data Privacy  
Solution for Siebel Suite

#### ■ Challenges:

- Protect the confidential information of child abuse investigation cases within their Siebel database.
- 75% of their test and dev workforce are contractors
- Avoid being front and center in the Daily telegraph for a data breach
- Deeply nested RI database with children, parents, step children, foster carers etc

#### ■ Client Value:

- Removed all sensitive information, names, addresses, contact information
- Integrated into their data refresh processes
- Maintain referential integrity of data which is important for testing!



# Infosphere Optim Customers



Thank  
YOU

And Questions from the floor???

