Minimise the impact of data breaches in dev and test databases

Steve Jones
Steve Jones
Evangelist, Redgate Software
Editor, SQLServerCentral

26 years SQL Server data experience
DBA, developer, manager, writer, speaker in a variety of companies and industries

Founder, SQLServerCentral
And current editor, with the goal of helping you learn to be a better data professional every day

10 years Microsoft Data Platform MVP
I have been honored to be recognized by Microsoft for the last decade as an MVP
Data Breaches are the New Normal

Millions of Records Exposed

Source: Identity Theft Resource Center
ACC notifies 1,400 institutions of potential data breach

April 14, 2016 | Tim Casey

After discovering the issue in December, the ACC found that four software development vendors who were testing software had access to NCDR patient data, according to the ACC.

The Security Breach That Started It All

- Veteran’s Administration (VA) incident: 26.5 million discharged veterans’ records, including name, SSN & date of birth, stolen from the home of an employee who “improperly took the material home.”
Software teams want to use Production data

It is desirable to use Production data in Dev and Test?

- Disagree: 8%
- Somewhat Disagree: 9%
- Somewhat Agree: 31%
- Strongly Agree: 52%
Database DevOps

The database needs to evolve faster.

It can't be the bottleneck.
Conflicts to solve
Conflicts to solve

Database Developers

Evaluate software sooner
up-to-date, production scale, realistic data
Self-service access

DBAs must protect data
all copies of data accounted for
sensitive data must be sanitized
Provisioning is a Blocker for DevOps

- Time
- Storage and sprawl
- Data security
- Limited Testing
- Shared environment conflicts
What Compliant Provisioning for Dev/Test

- Single central view of database copies
- Control over creation and access
- Mechanism to sanitise data classified as sensitive
- Security / access to data
- Consistent (automated) process are easier to audit
- Record of activities
SQL Provision: Create, protect and manage provisioning
Key Benefits

**Virtualize**
- Save time provisioning
- Save 99% storage space
- Local, isolated development
- Accurate testing using realistic data

**Protect**
- Mask sensitive data for compliance
- Customize data masking rules at scale

**Automate**
- Automate repeatable processes
- Fewer provisioning requests

**Manage**
- Central auditable view of database copies
- Role-based provisioning permissions
Demo

SQL Provision for Teams
Create, protect and manage SQL Server Databases copies for compliant DevOps

✓ Reduce provisioning tickets and accelerate delivery to unblock the team
  ✓ Self service
  ✓ Automation
✓ Single central view of provisioning activities
✓ Reduce the time spent juggling disk space
✓ Sanitize sensitive data for compliance
✓ Give teams their own production-like databases to increase time to market
✓ Shift testing left to find issues early using realistic data and identify the change impact
Thank you

sqlprovision@red-gate.com

www.voiceofthedba.com

sjones@sqlservercentral.com

red-gate.com/hub

@way0utwest

/in/way0utwest