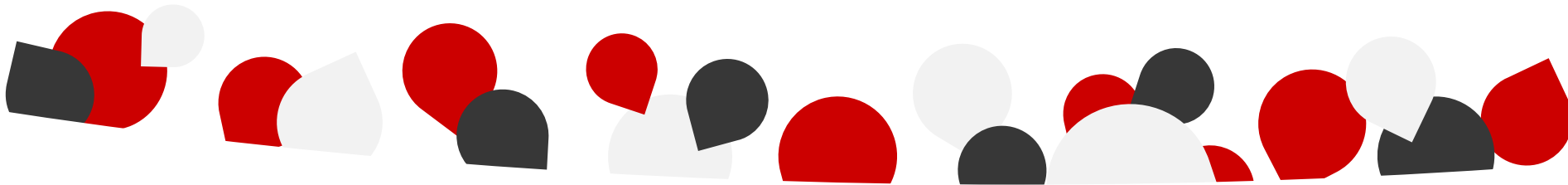


Minimise the impact of data breaches in dev and test databases





Steve Jones

Evangelist, Redgate Software
Editor, SQLServerCentral

26 years SQL Server data experience

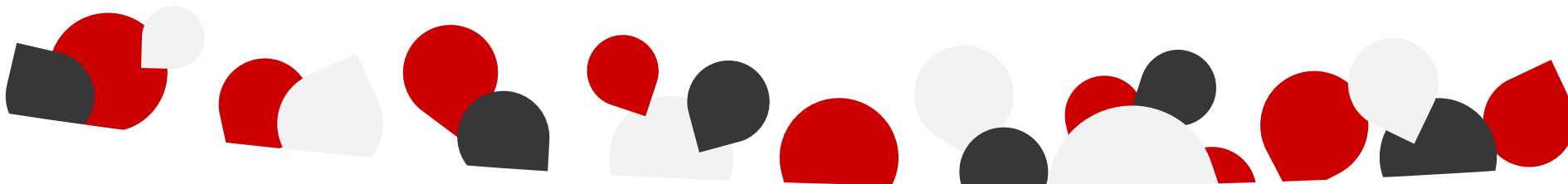
DBA, developer, manager, writer, speaker in a variety of companies and industries

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



SHUTTERFLY (INC)

OH, SNAP! SHUTTERFLY SUFFERS DATA BREACH ON INTERNAL TEST ENVIRONMENT

ACC notifies 1,400 institutions of potential data breach

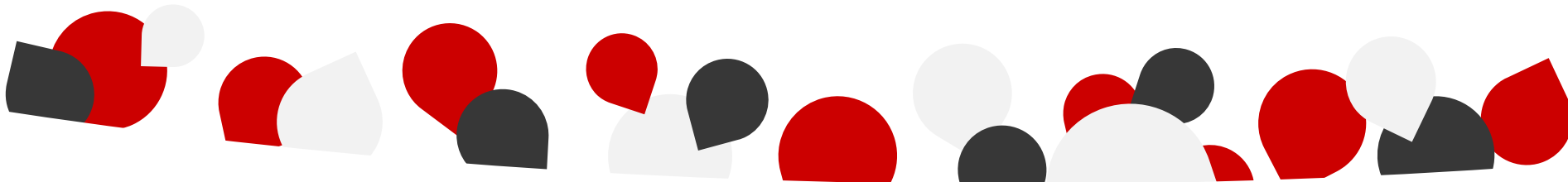
April 14, 2016 | Tim Casey



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.

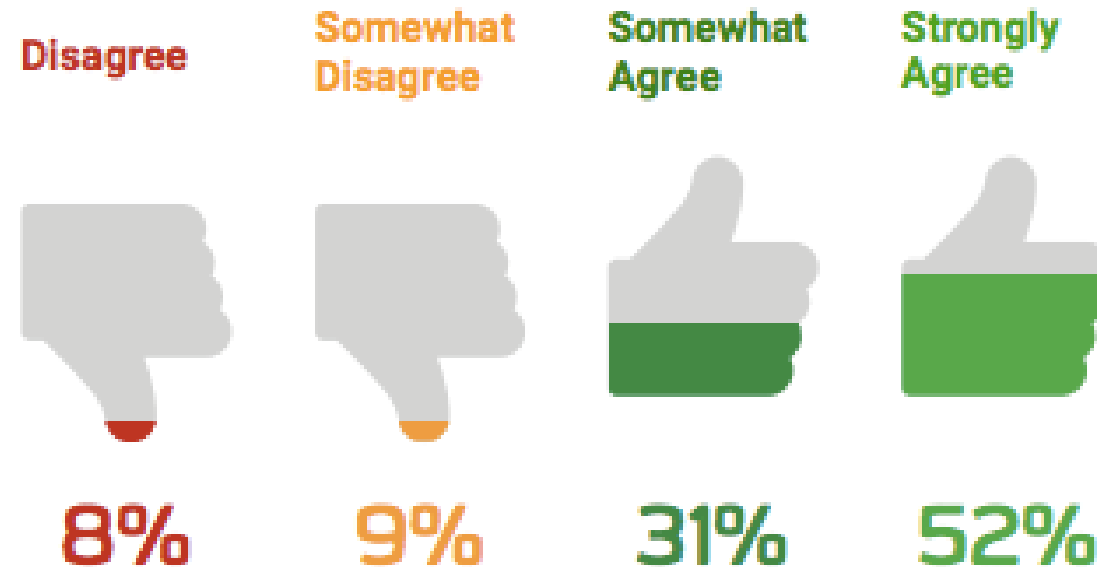
The Security Breach That Started It All

- 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."



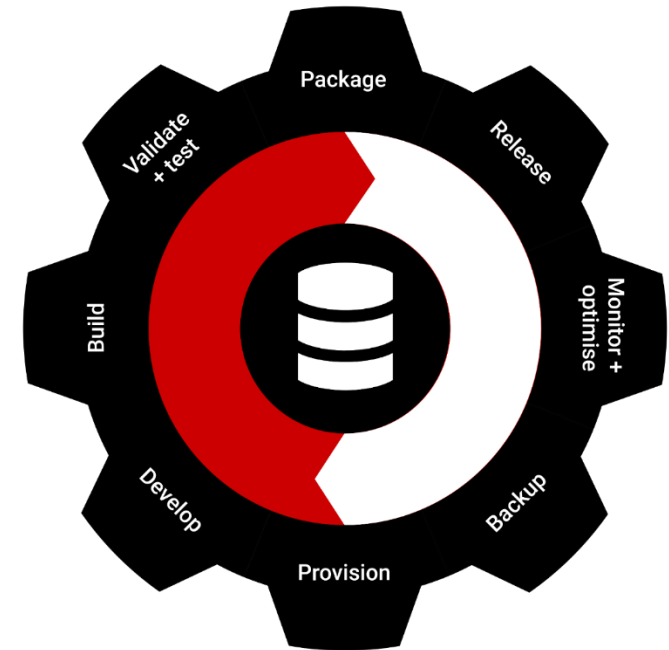
Software teams *want* to use Production data

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

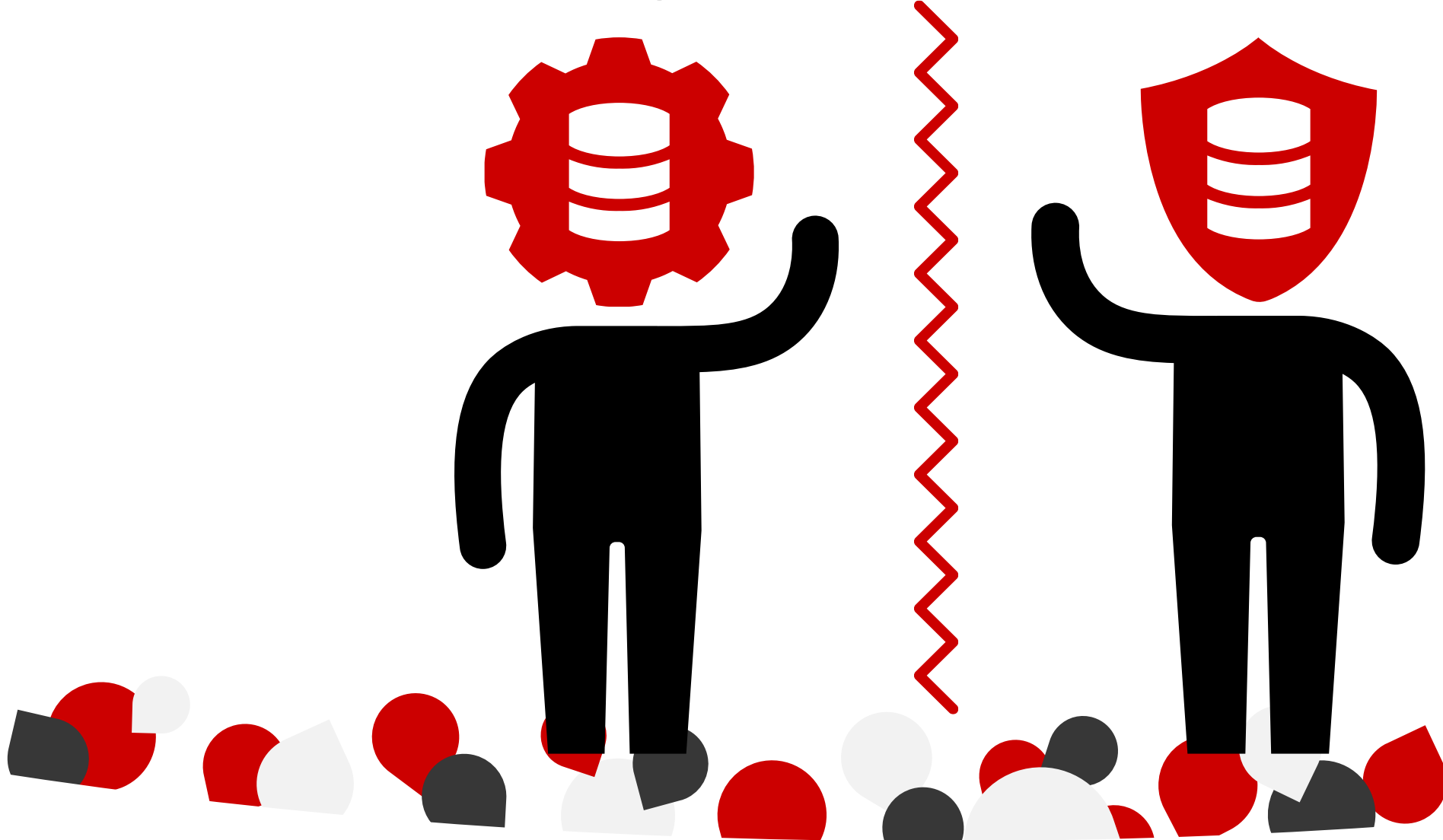


Database DevOps

The database needs to evolve faster.
It **CANNOT** 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

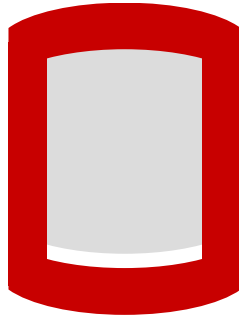
- all copies of data accounted for
- sensitive data must be sanitized

Provisioning is a Blocker for DevOps

Time



Storage and sprawl



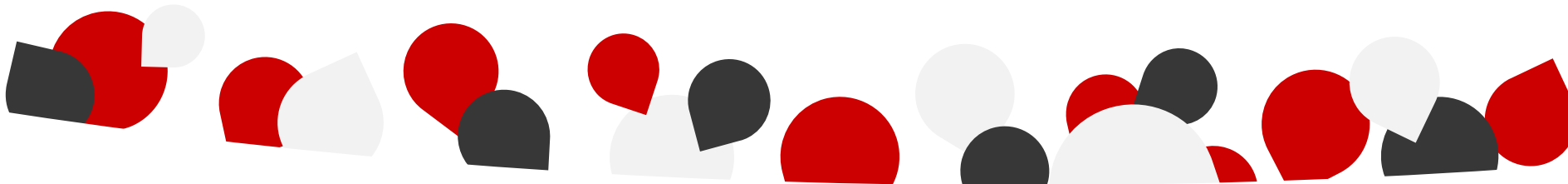
Data security



Limited Testing



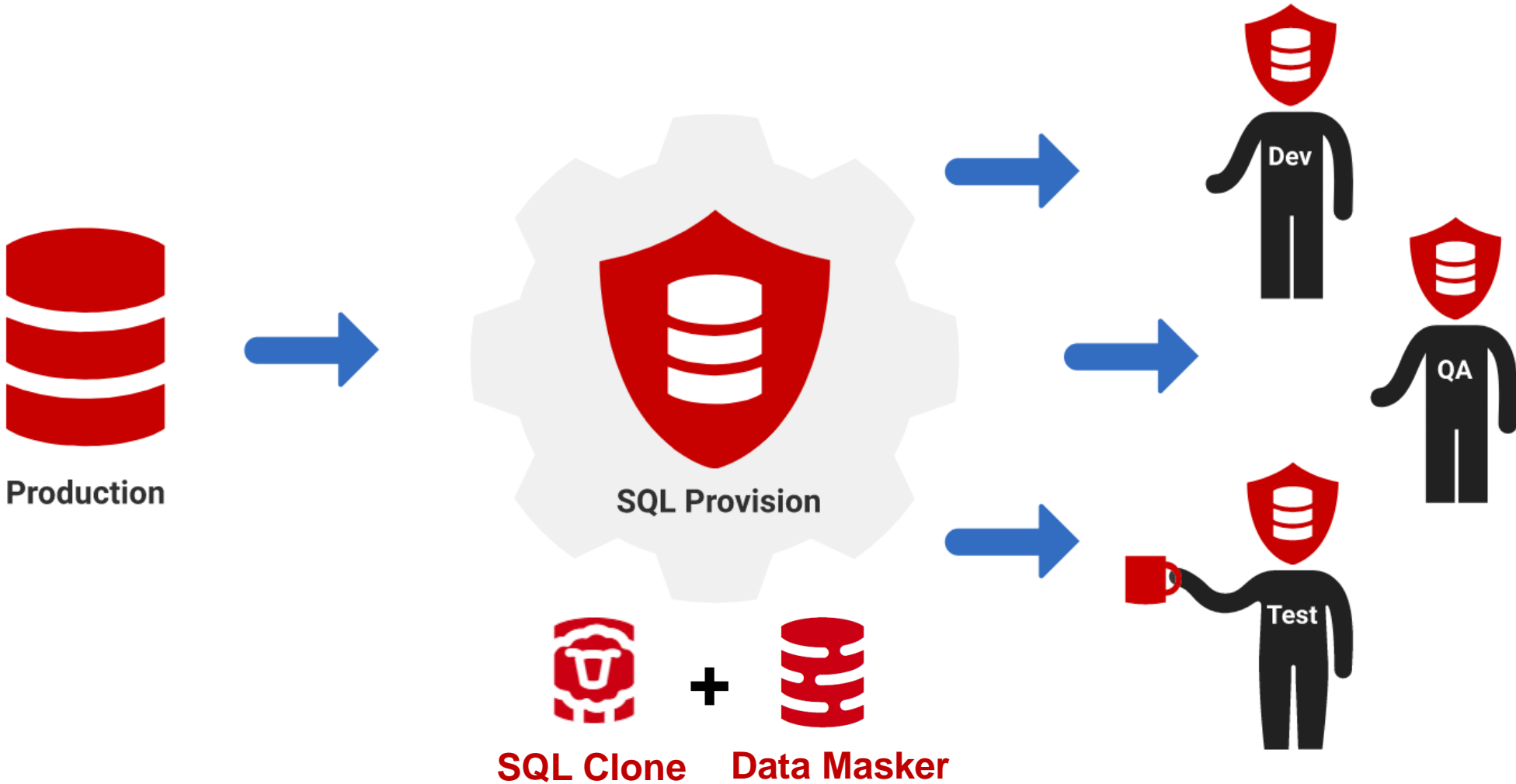
Shared environment conflicts



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

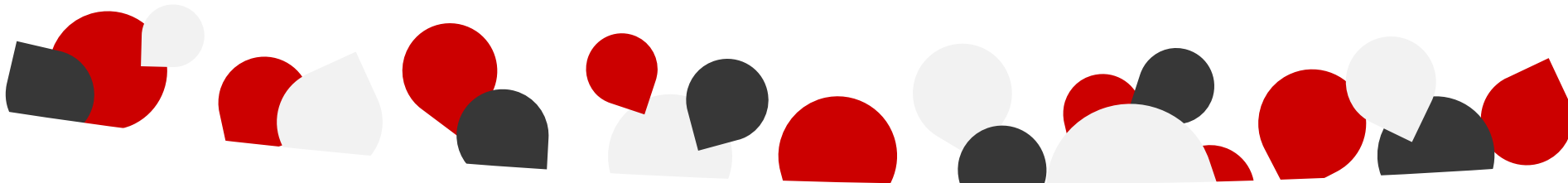
- Automate repeatable processes
- Fewer provisioning requests



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
- ✓ 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
- ✓ Single central view of provisioning activities

Thank you

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