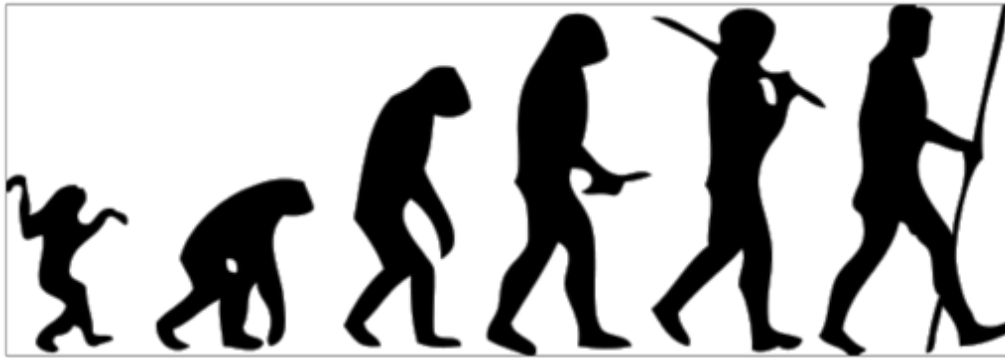


ENVIRONMENT PROVISIONING THE THIRD AGE

Grant Fritchey, Product Evangelist, Redgate
Richard Macaskill, Product Manager, Redgate



THE THREE AGES

- ▶ Hunter
- ▶ Hunter/Gatherer
- ▶ Farmer



Grant Fritchey

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Product manager, ex IT Manager, Dev,
BI Dev, reluctant DBA.
Data governance Bolshevik.

TASKS FOR **PROVISIONING A DATA ENVIRONMENT**

- ▶ Copy database(s)
 - ▶ Replace sensitive data
 - ▶ Modify configuration
 - ▶ Deploy
 - ▶ Test!
- 
- Several thin, white, parallel diagonal lines are positioned in the bottom right corner of the slide, extending from the right edge towards the center.





- ▶ “Bash it til it works”
- ▶ Manual change processing
- ▶ Manual deployment processing
- ▶ Manual cleanup

HUNTER PROCESS



- ▶ No repeatability
- ▶ Error prone
- ▶ Labor intensive
- ▶ Unsafe (GDPR, etc.)
- ▶ Lots of disk space issues

HUNTER CHALLENGES



GAME TIME

“Never have I ever...”

Several thin, parallel white lines of varying lengths and angles are positioned in the bottom right corner of the red background, creating a sense of motion or a stylized graphic element.



- ▶ Some automation
- ▶ Agent jobs
- ▶ Basic scripting

HUNTER/GATHER PROCESS

A series of several thin, white, parallel diagonal lines extending from the bottom right corner towards the center of the slide.

- ▶ Long processing times
- ▶ Limited repeatability
- ▶ Still unsafe
- ▶ Still more disk space issues

HUNTER/GATHERER CHALLENGES



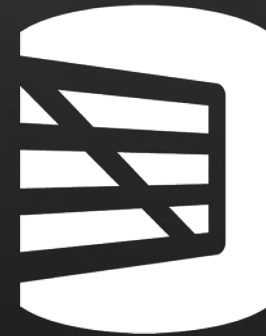
- ▶ Fully automated
- ▶ Self-service
- ▶ Repeatable
- ▶ Audited

FARMER PROCESS

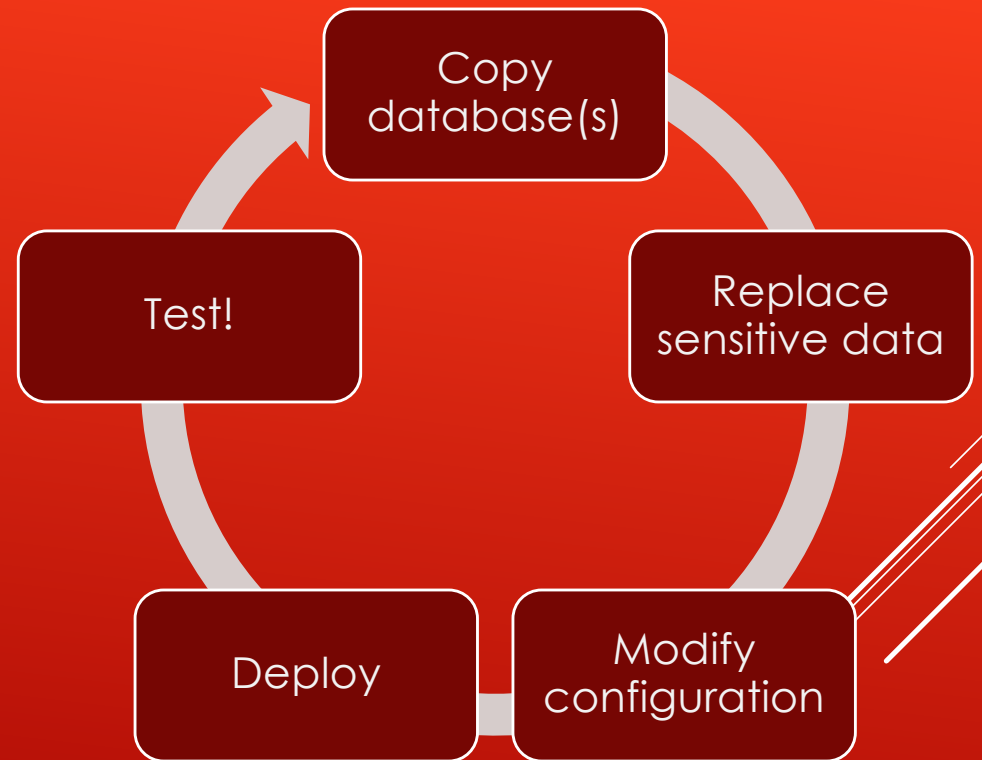


- ▶ SQL Provision
 - ▶ SQL Clone
 - ▶ Data Masker
- ▶ Your scripts (& DBA Tools etc.)
- ▶ Database change control
 - ▶ Redgate, SSDT, Flyway etc.

FARM TOOLS



TASKS FOR **PROVISIONING A DATA ENVIRONMENT**



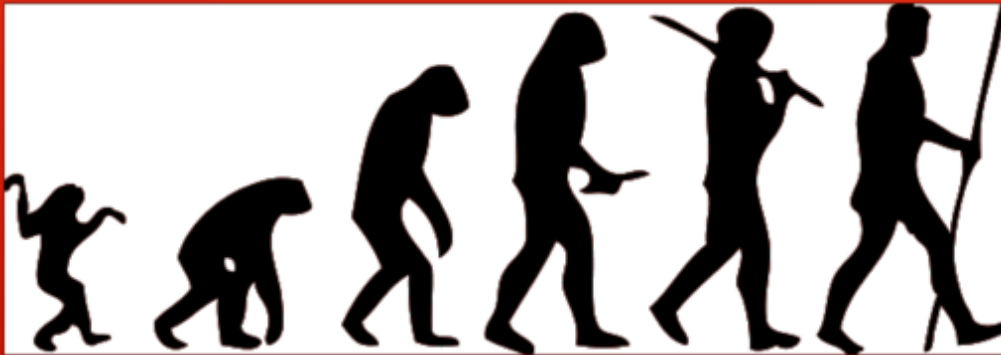
TASKS FOR PROVISIONING A DATA ENVIRONMENT

Task	Process
Copy database(s)	SQL Provision - Create image - Deliver clone
Replace sensitive data	SQL Provision - Invoke masking definition
Modify configuration	SQL Provision - Apply template
Deploy	SQL Change Automation - Deploy database release
Test	[Your application here!]



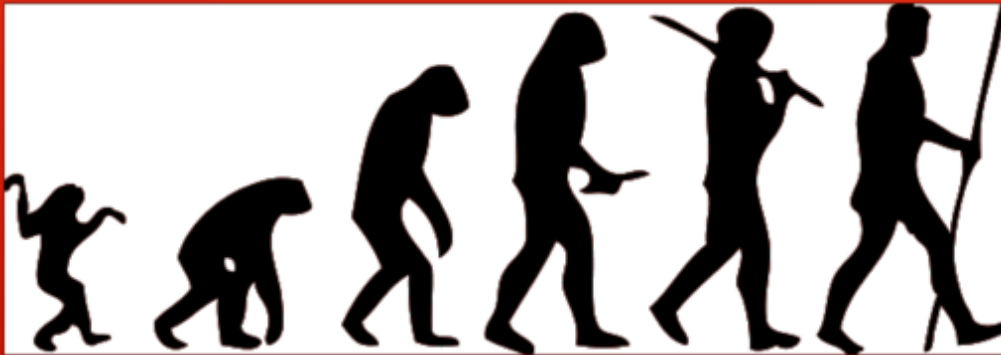
DEMO!





THE THREE AGES

- ▶ Hunter
- ▶ Hunter/Gatherer
- ▶ Farmer



THE THREE AGES

- ▶ Manual
- ▶ Semi-automated
- ▶ Automated

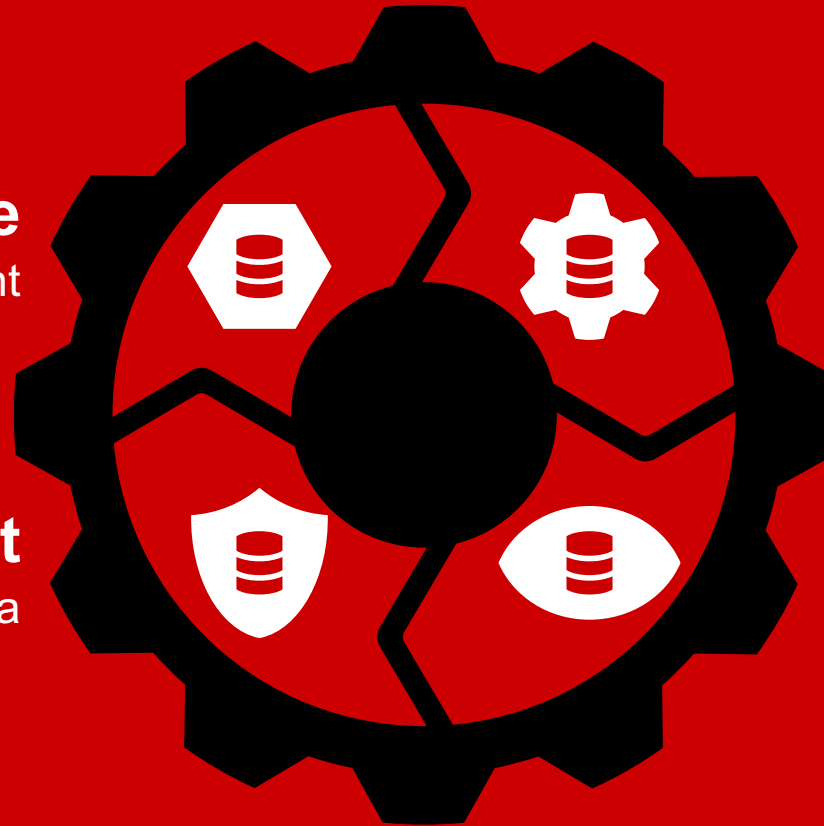
Compliant Database DevOps

Standardize
team-based development

Automate
database deployments

Protect
and preserve data

Monitor
performance & availability



- ▶ Come to the booth
- ▶ Redgate University
- ▶ Red-gate.com

WANT TO KNOW MORE?



QUESTIONS?

- ▶ Deer
- ▶ Rabbit
- ▶ Blueberry
- ▶ Wheat
- ▶ Evolution
- ▶ Plows
- ▶ Neanderthal
- ▶ Hunter/Gatherer
- ▶ First farmers
- ▶ Space farm
- ▶ Harvesting

PHOTO CREDITS