Extend DevOps to the Database by Automating Your Deployments
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10 Years at Redgate
Helping customers implement database DevOps using Redgate tools.
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8 Years at Redgate
Developing the future for tools in Redgate’s versioning & automation portfolio.
Agenda

- What is DevOps?
- Why DevOps?
- Extending DevOps to the database
- Adding the database to an automated deployment pipeline
- A closer look at database DevOps – 3 x versioning & automation demos
- Next steps
What is DevOps?

“DevOps is the union of people, process, and products to enable continuous delivery of value to our end users.”

Donovan Brown,
Principal DevOps Program Manager, Microsoft
Why DevOps? – the business benefits

- Faster delivery of features and functionality
- Iterate faster, based on feedback
- More stable operating environment
- Improved collaboration across roles
- Reduced deployment failures and time to recover
2017 State of DevOps Report: Key findings

- High-performing IT organizations:
  - Decisively outperform their lower-performing peers, deploying 46 times more frequently with 5 times lower change failure rate and 96 times faster recovery from downtime.
  - Spend 22% less time on unplanned work and rework and are able to spend 29% more time on new work such as new features or code.
  - Are twice as likely to exceed their profitability, market share, and productivity goals.
Benefits of Database DevOps

- Repeatability of processes, giving:
  - Greater predictability over releases
  - Efficiency by eliminating the repetition of a range of manual activities

- Faster speed of response to change through:
  - The automated deployment of smaller units of change

- Greater reliability of the release process by:
  - Providing a series of automated test stages prior to deployment
2018 State of Database DevOps Report

- Within 2 years, over 80% of companies will adopt DevOps
- The biggest driver for including the database is to increase the speed of delivery of database changes
- 76% of respondents have developers in their team who work across both applications and databases
Redgate’s Database DevOps Solution
Application automated deployment pipeline
Application and database automated deployment pipeline
Demo – Source Control
What’s next?
Demo – Build
What’s next?
Demo – Release
Complete automated deployment pipeline
Summary

• The database is fundamental to complete DevOps

• Extending DevOps to your databases provides:
  • Repeatability of processes
  • Greater predictability over releases
  • Faster speed of response to change
  • Greater reliability of the release process
  • Overall faster delivery of business value

• Setting up an automated deployment pipeline can be done in under an hour
Database DevOps Maturity Assessment

- Evaluate your processes
- See how you compare against peers
- Receive a full report & recommendations

www.red-gate.com/maturity-assessment
Thank you

- Contact us:
  databasedevops@red-gate.com

- Find out more about Redgate’s database DevOps solution:
  www.red-gate.com/solutions

- Get involved with the Redgate Hub:
  www.red-gate.com/hub