Harnessing SQL Sentry in a Devops Pipeline

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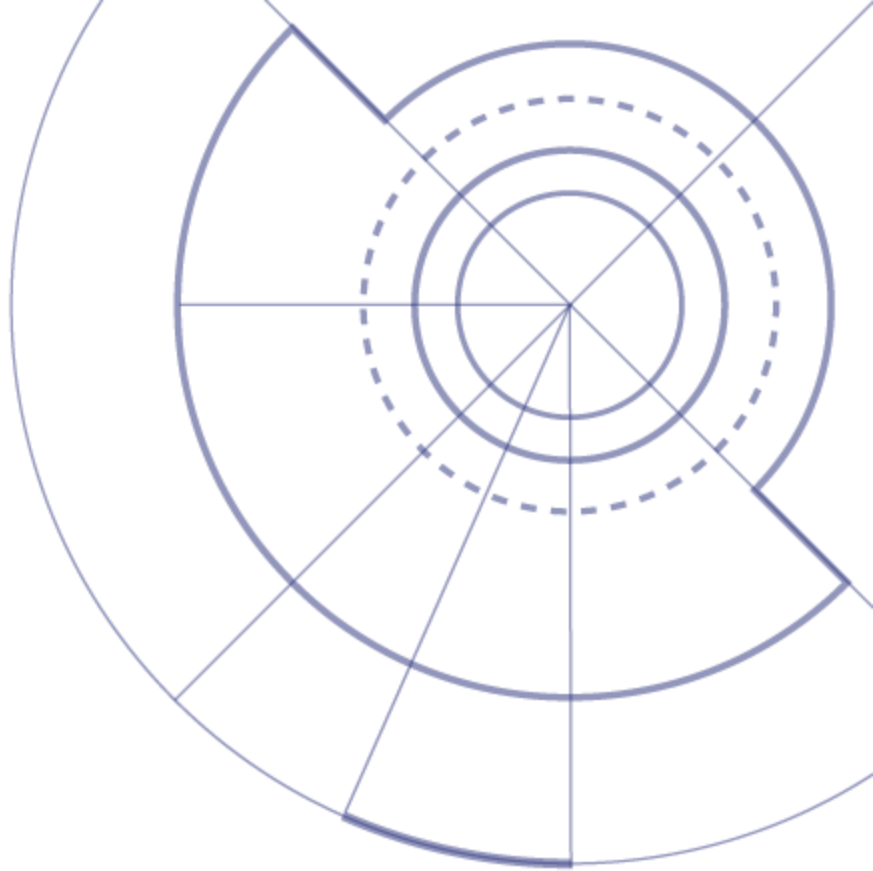


Who are we?

Mark Allison

- Worked with SQL Server since 1996
- Received MVP award 2002-2006
- Mainly investment banking

Who are we?

Paul Anderton

- Worked with SQL Server since 2000
- MCM: SQL Server
- Runs SQL Server User Group: Manchester, UK
- SQL Saturday Manchester, UK

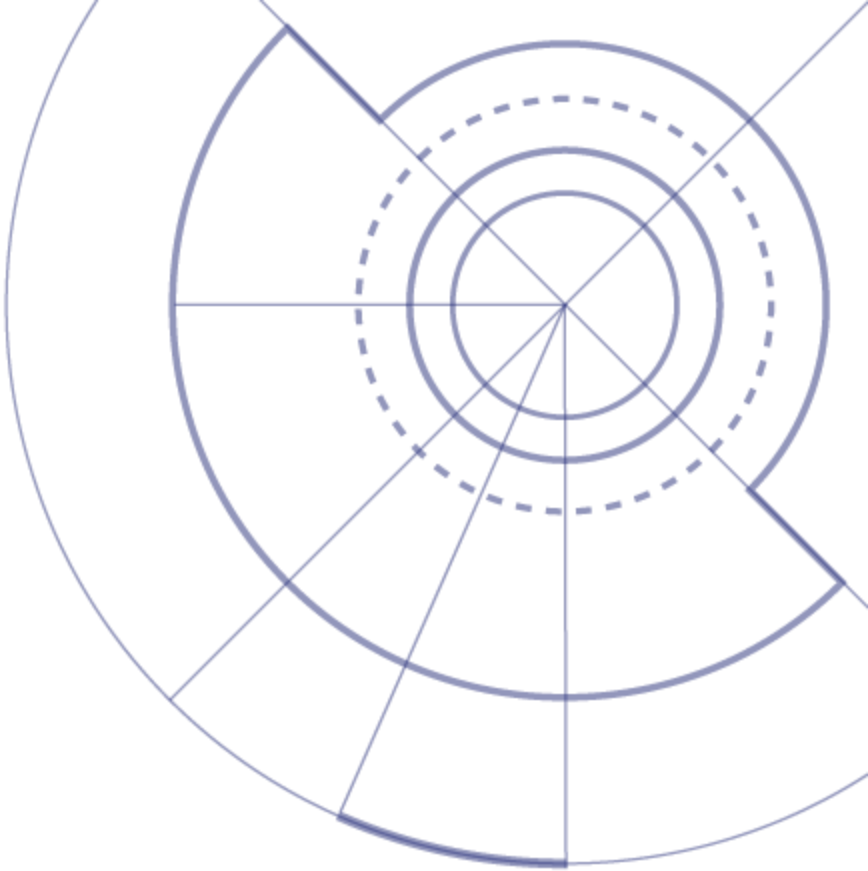
Who are Sabin.io?

Founded by Simon Sabin

- MCM: SQL Server
- MVP & Microsoft Regional Director
- Founder of sqlbits
- Passionate about Data DevOps

What are we covering today?

- Follow-up to previous webinar
- Automating detection of performance problems
- Demo:
  - Using Quality gates in VSTS to fail a deployment if performance goes outside defined thresholds.
- How VSTS Extensions can be used to display performance issues



Plan

VSTS/JIRA
Weekly Sprints
Prioritize

Develop

SSDT/VS2017
Branches/git
Database Tests

Deploy

Same code
Multi-Environment
Database Tests

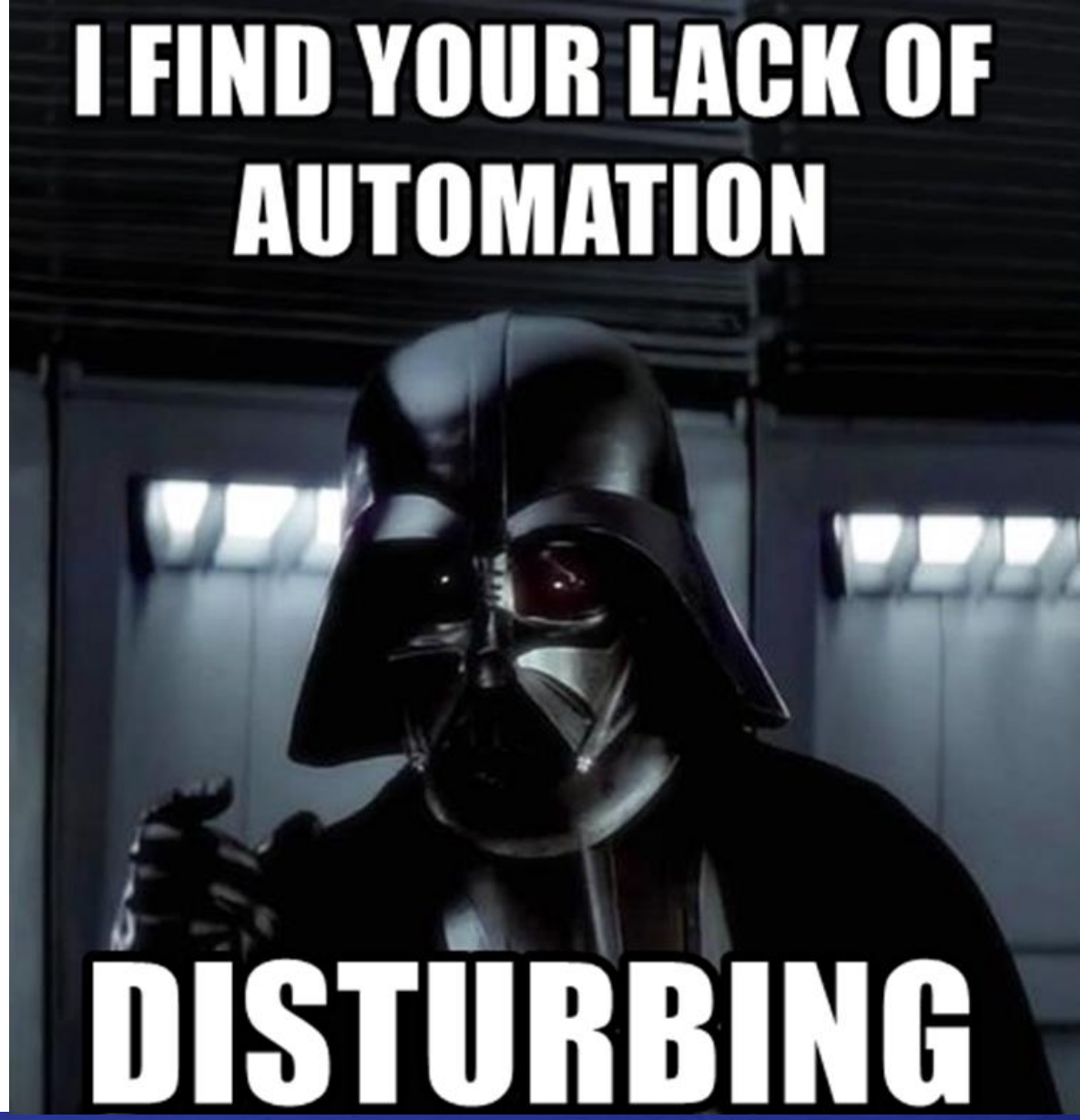
Database Lifecycle

Measure

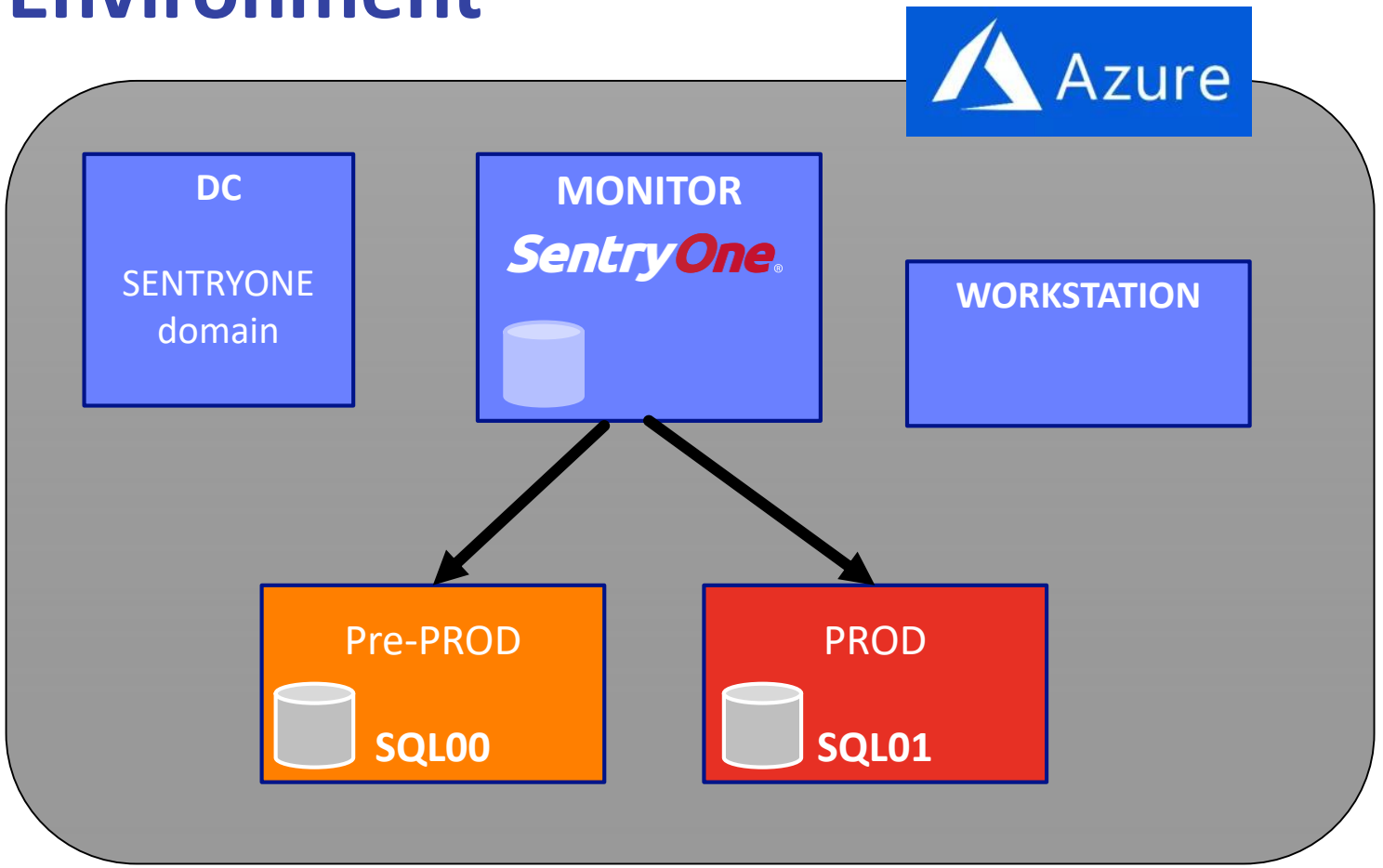
SentryOne Alerts
Production-like
Pre-Prod & Prod
Feed back to release tool

Why fail a release?

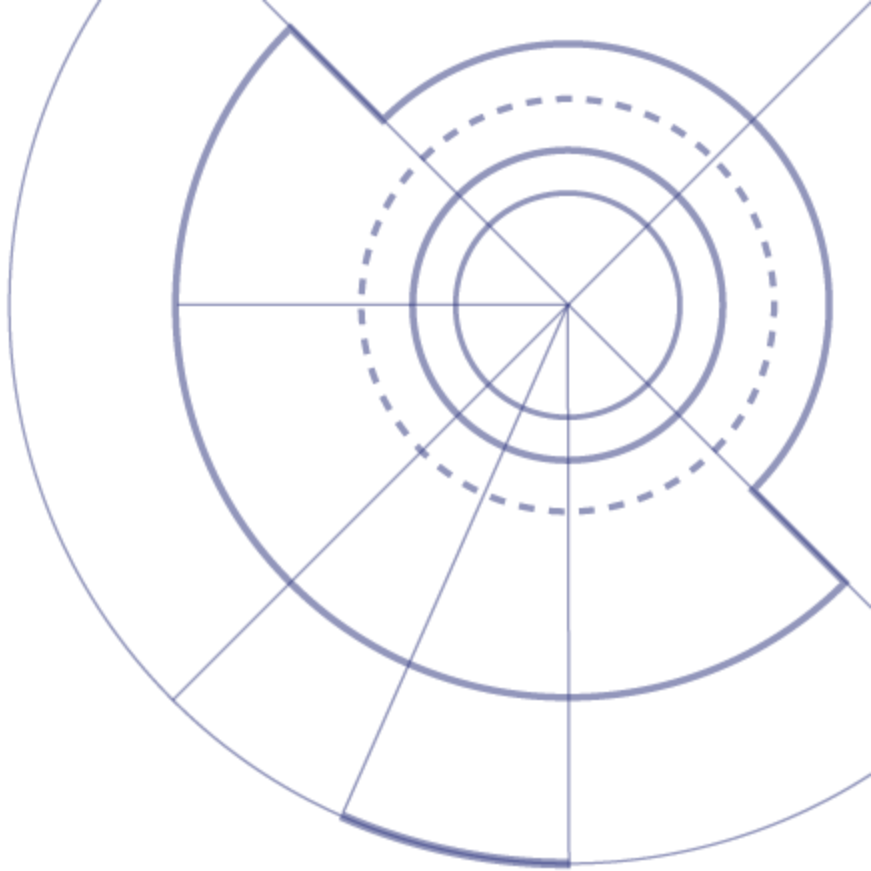
- Automate all the things!
- If it can be automated,
  then automate it.
- Manual processes are error-prone
- Automation tool will report why
- Fix, then re-release through pipeline



Environment

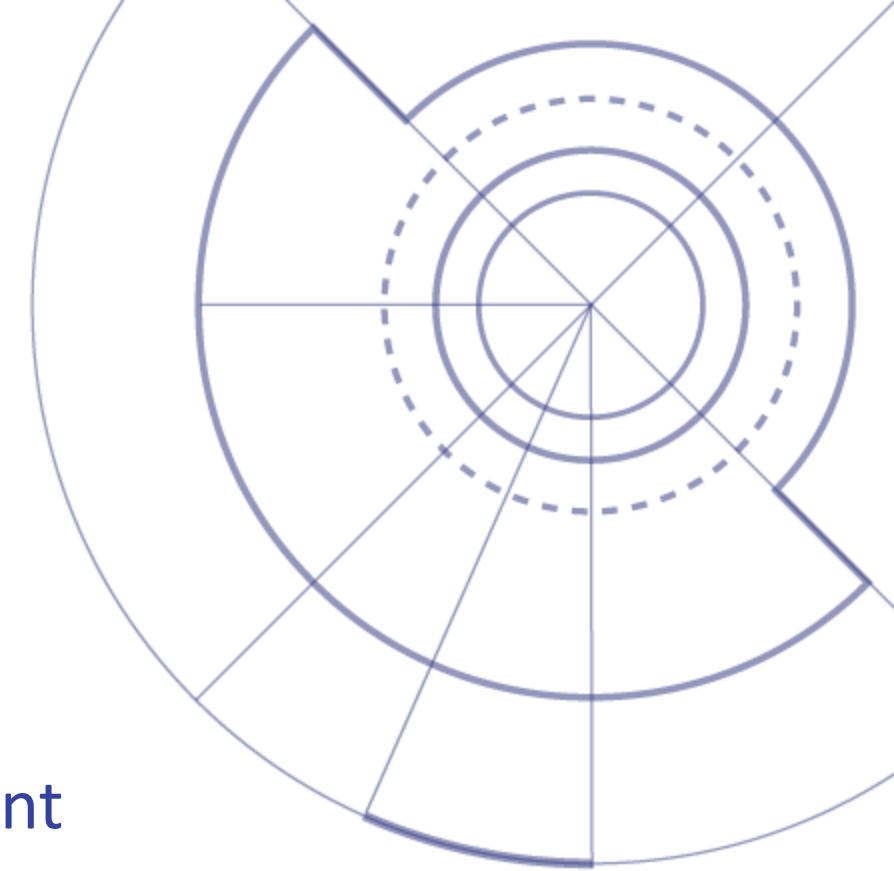


Demo



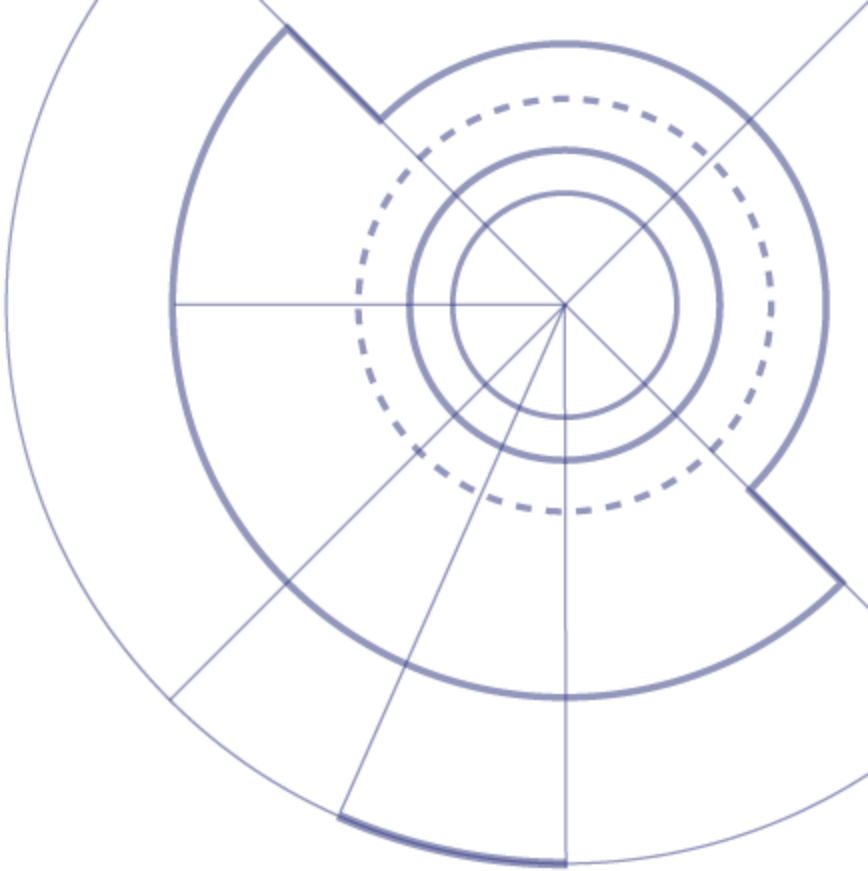
VSTS Quality Gates

- Using SQL Sentry we can compare Performance metrics from the release against a baseline
- Quality Gates allow us to automatically prevent performance problems reaching Production
- Optionally, if metrics are good, we can implement Continuous Delivery (CD) of database change



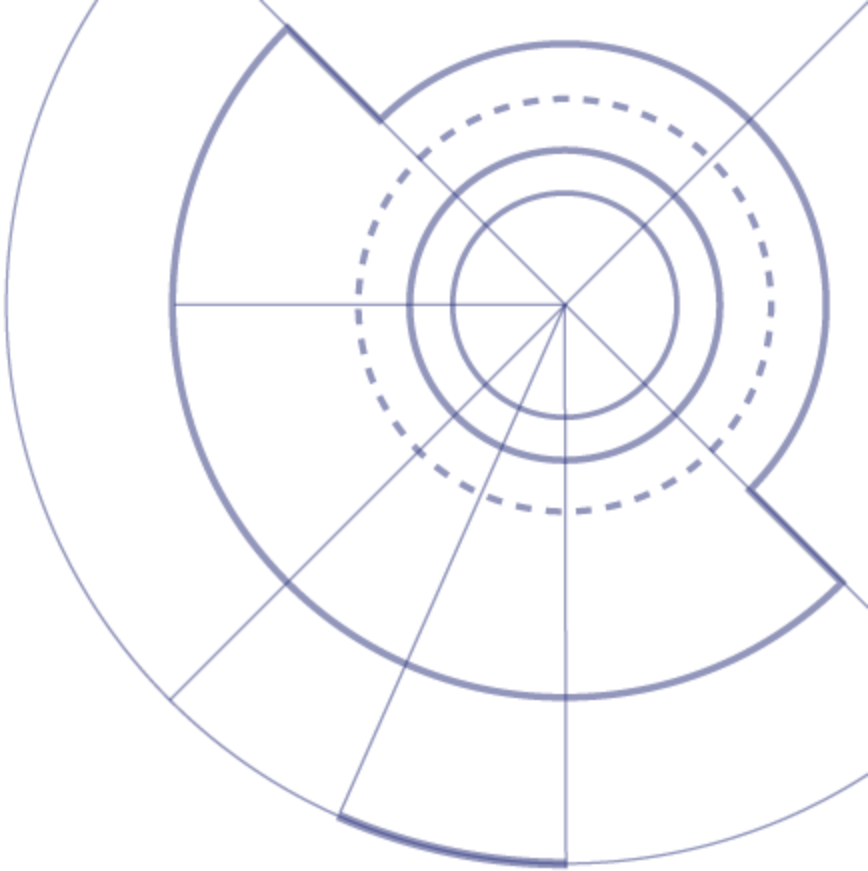
VSTS Extension

- Using a Bespoke VSTS Extension we can display metrics to the Release Manger
- Mainly written in Java Script
- Publish to VSTS Marketplace
  - Can be either Private, shared with specific people or Public



Summary

- Automate!
- Performance Metrics provided by Sentry One to supply the Quality Gate
- Monitor all environments in pipeline
- Correlate multiple events
- Find problems quickly

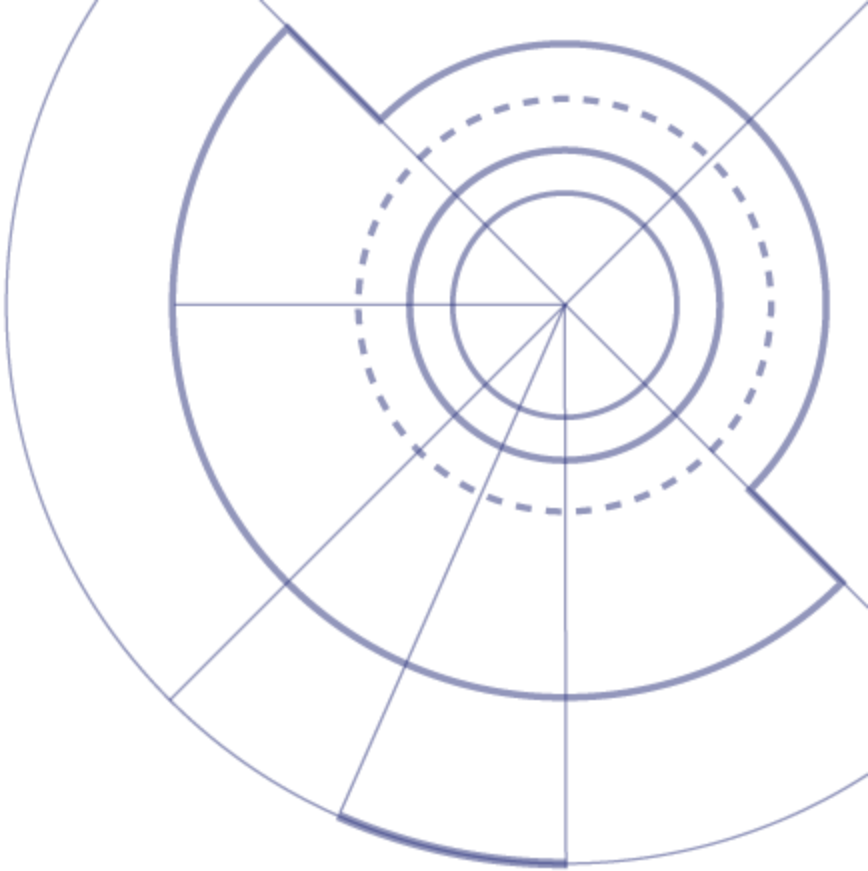


Resources

Download Demo Conditions, Scripts and Slides

http://sabin.io/webinar

Book a slot to let us help you with,

- Integrating SentryOne in your environment
- SQL Server Health Checks, Performance Problems
- Making DevOps work for your Data Platform

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