



# Supercharge your Reporting Services

Craig Porteous



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## Senior Data Engineer @ Incremental Group



Worked with Data and the Microsoft stack for more than 10 years.

DATA Glasgow user group co-leader

DATA:Scotland Founder

Microsoft Data Platform MVP



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# Types of tools



Photo by [Joanes Andueza](#) on [Unsplash](#)



Maintenance



Troubleshooting



Error Handling



Managing Security



Performance



Best Practices

Which version



<https://craigporteous.com/ssrs-2016-brand-package-breakdown/>

SQL Server 2019  
SQL Server 2017  
SQL Server 2016  
SQL Server 2014  
SQL Server 2012  
SQL Server 2008/R2  
SQL Server 2005



# The Parts



Configuration

Content

Security

Subscriptions

Environments

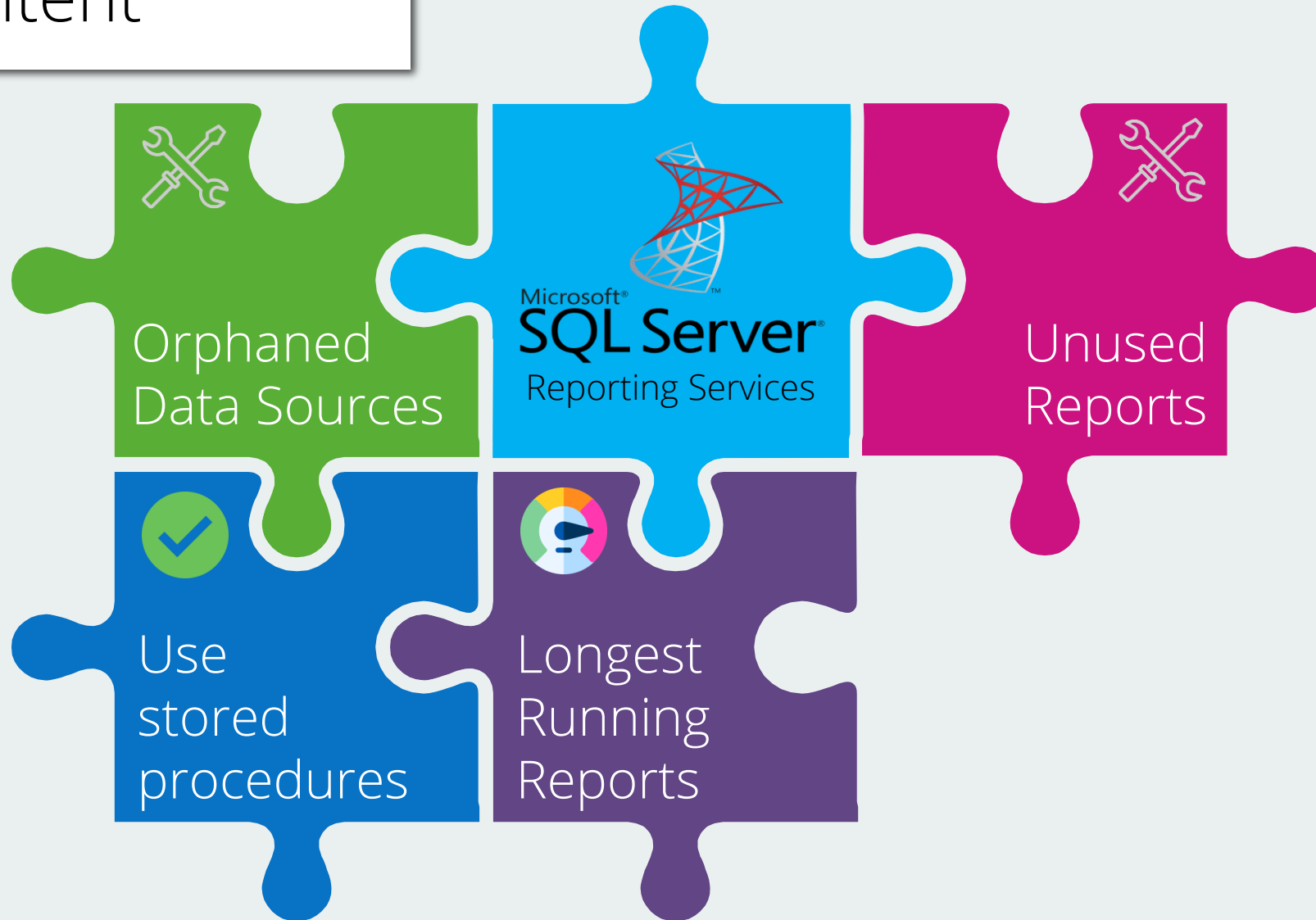
# Configuration





# Configuration Demo

# Content

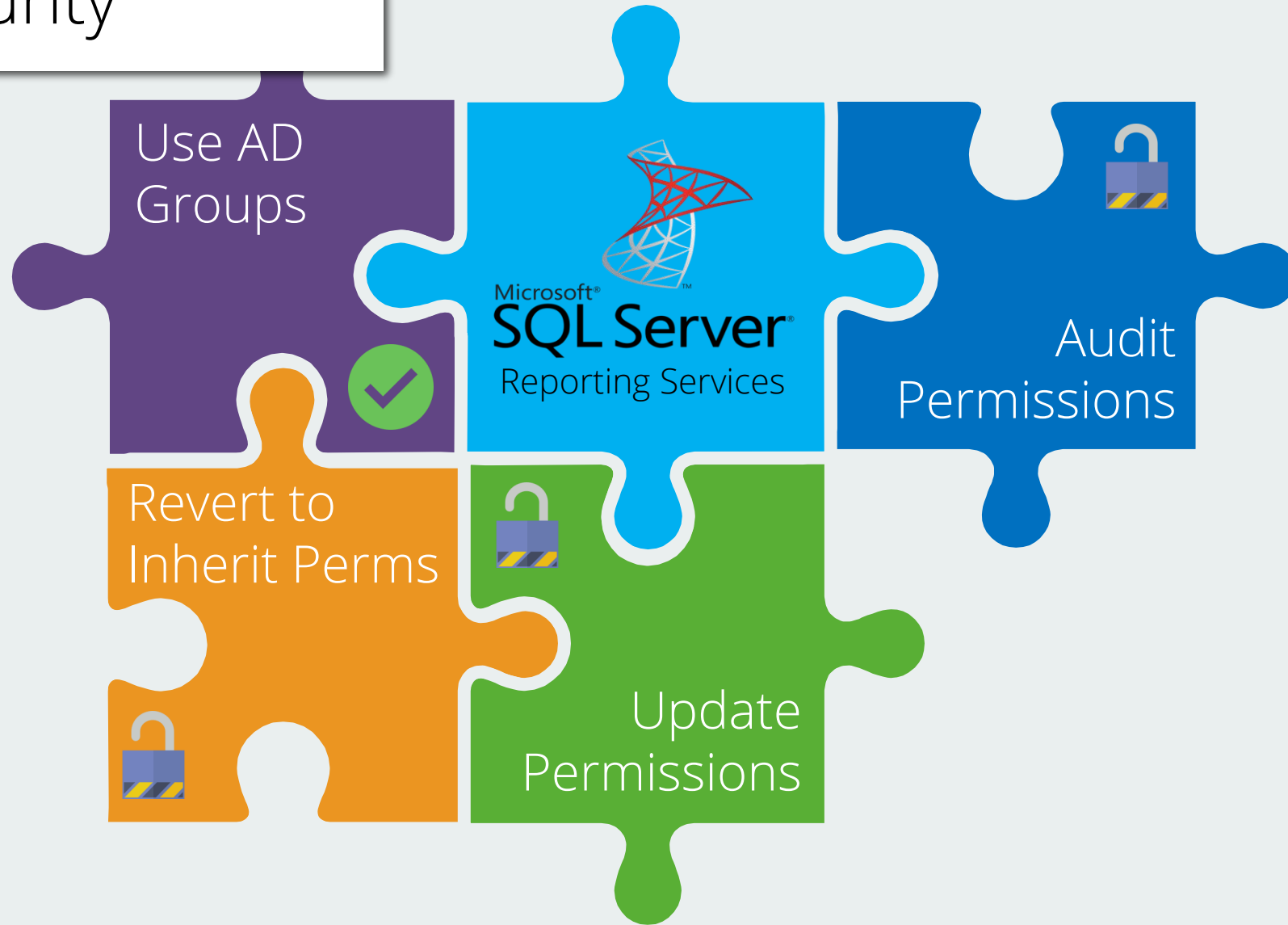






# Content Demo

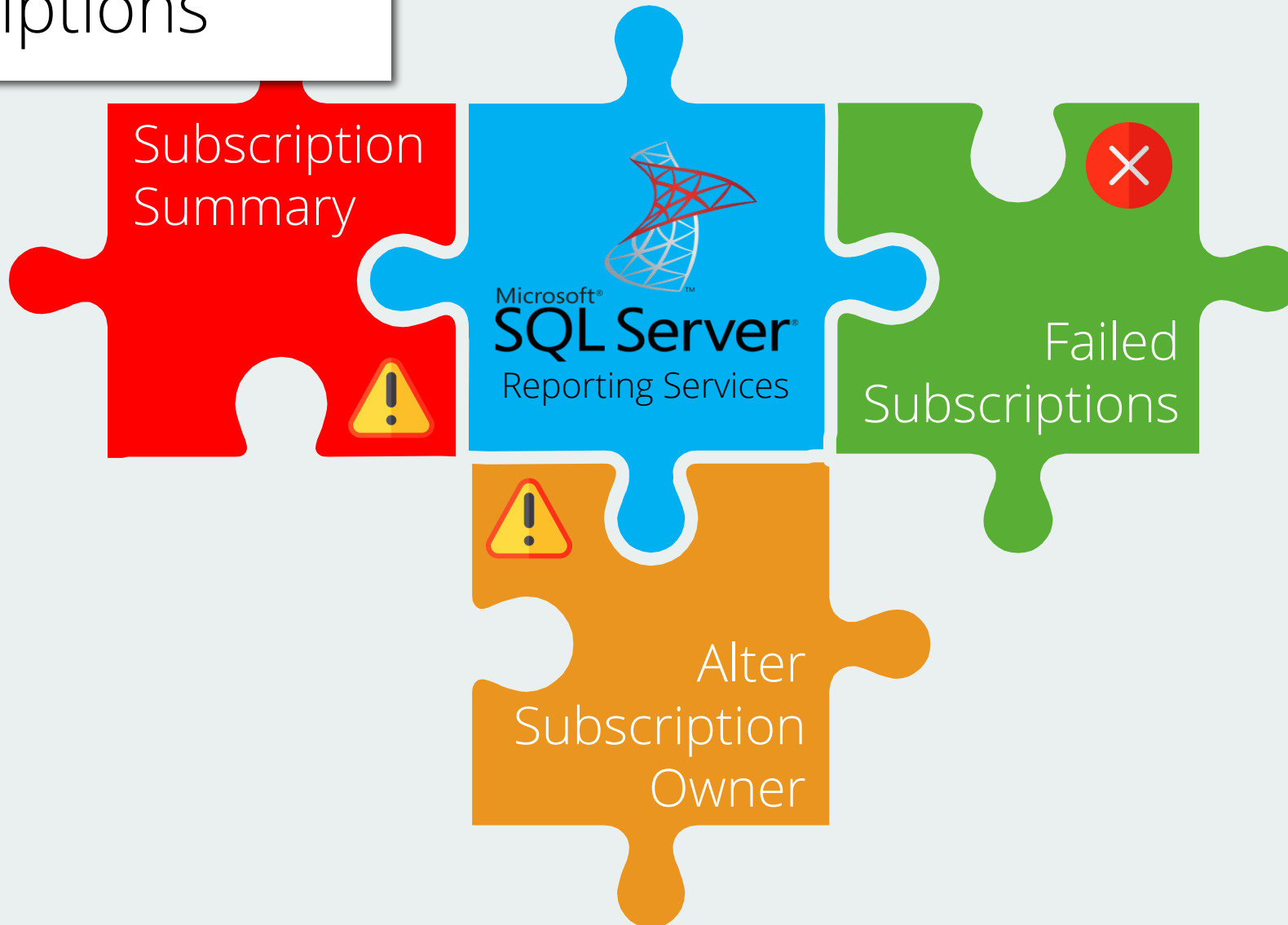
# Security





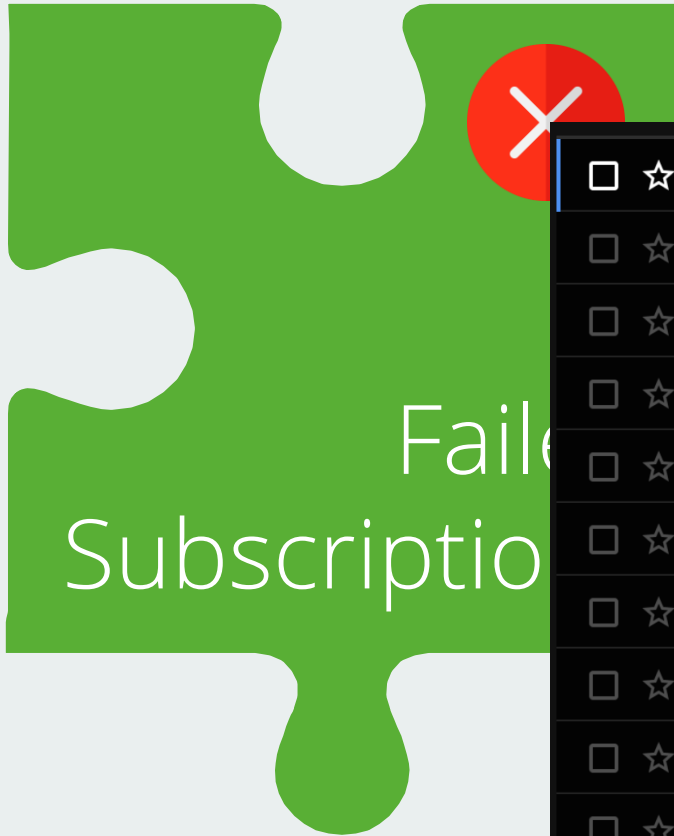
# Security Demo

# Subscriptions



# Subscriptions

## SQL Agent Job



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[GitHub.com/cporteous](https://github.com/cporteous)

<https://craigporteous.com>



# Subscriptions

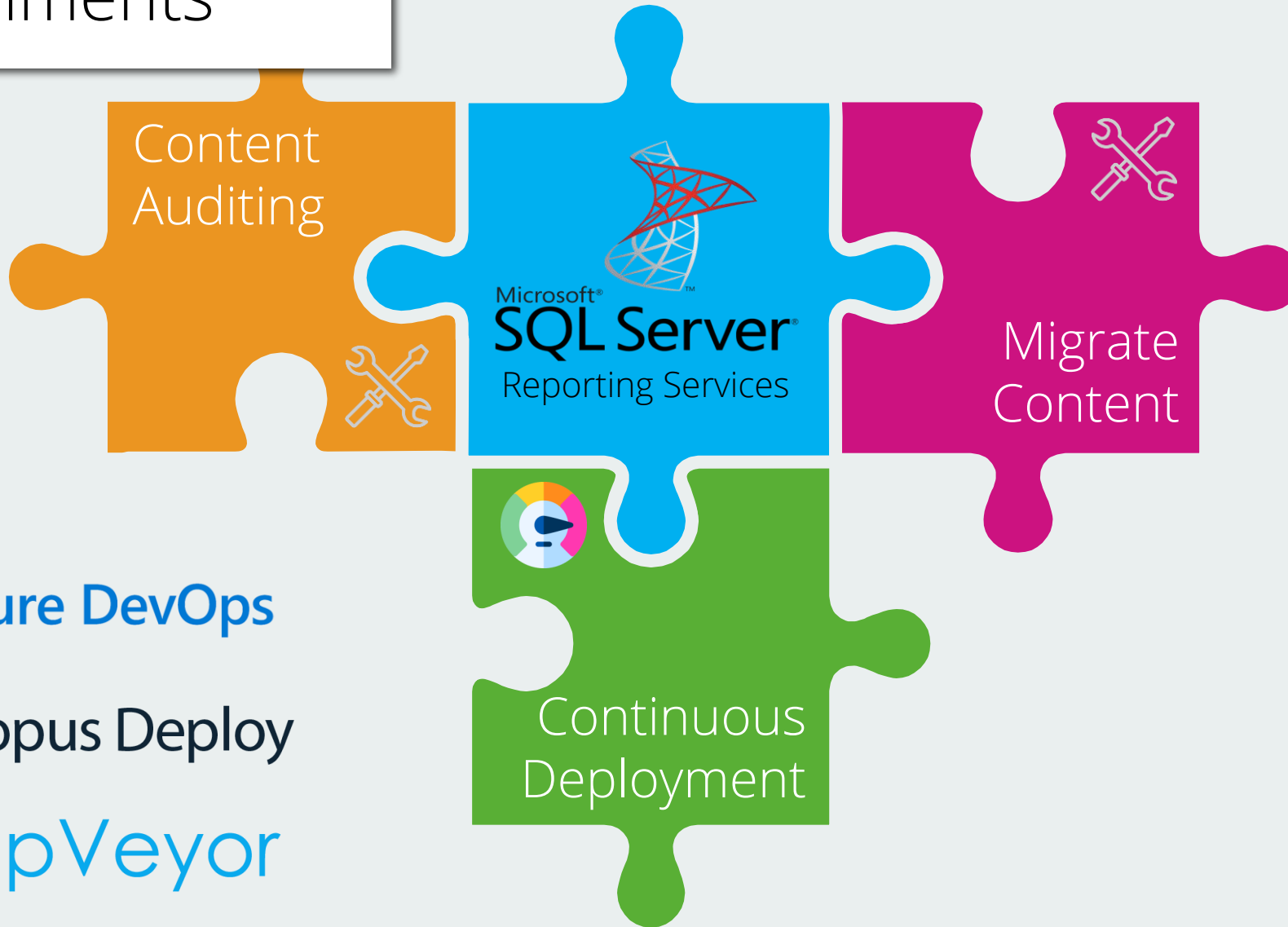
**Failed SSRS** Subscription details. Please resolve & re-run jobs

Report Name	SQL Agent Job ID	Owner Username	Distribution	Error Message	Report Location	Last Run Time
EkanbanCurrentHrs	41A63210-9B99-4D44-823A-3515CAD2BE1B			The subscription contains parameter values that are not valid.	/Archive/EkanbanCurrentHrs	2018-04-30T06:00:08.800
LogilityAlertsPO	A9794475-B71C-44D9-BE15-D2BE3C318513		Buyers	Done: 20 processed of 20 total; 6 errors.	/Logility/LogilityAlertsPO	2019-07-18T07:15:00.697
Inventory	491ECF65-B701-4919-BC9B-A9EC7A50DE74			Failure sending mail: Excel Rendering Extension: Number of rows exceeds the maximum possible rows per sheet in this format; Rows Requested: 72676, Max Rows: 65536Mail will not be resent.	/ResponsibleDivisions/DSP/Inventory	2019-07-15T05:45:01.233
BranchPrintedsByHr	ED66D219-B987-45E8-AB0B-355C3E7C5649		BranchMgrs	Done: 18 processed of 18 total; 1 errors.	/Branches/BranchPrintedsByHr	2019-07-18T08:22:04.433
Deficit Subreport	3D437A01-BEE6-48CF-A993-295C2D17E84B		Buyers	Done: 16 processed of 16 total; 8 errors.	/Purchasing/Deficit Subreport	2019-07-15T08:00:05.380
DailyAdjustments	E1582577-5824-48FF-BA2D-A8492823733D		Extra emails	Done: 4 processed of 4 total; 4 errors.	/Branches/DailyAdjustments	2019-07-18T06:44:00.990
Inventory Count Bay A Day	05B49CD9-C802-4D9C-A675-01A93C6892B0			The subscription contains parameter values that are not valid.	/Warehouse/Inventory Count Bay A Day	2019-01-01T09:00:04.597
Shipped24Hr	C659BD11-B5E5-48DB-A5B6-6A206366F6F1		Shipped in 24hr	Done: 18 processed of 18 total; 1 errors.	/Branches/Shipped 24hr/Shipped24Hr	2019-07-18T06:45:01.553
DistributionLevel	661DC3D1-DFAD-44B5-8260-92C8C81F149D			Failure sending mail: Excel Rendering Extension: Number of rows exceeds the maximum possible rows per sheet in this format; Rows Requested: 164282, Max Rows: 65536Mail will not be resent.	/Foreign Subs/Canada/DistributionLevel	2019-07-01T10:00:04.980



# Subscriptions Demo

# Environments



Azure DevOps



Octopus Deploy



AppVeyor

# Environments



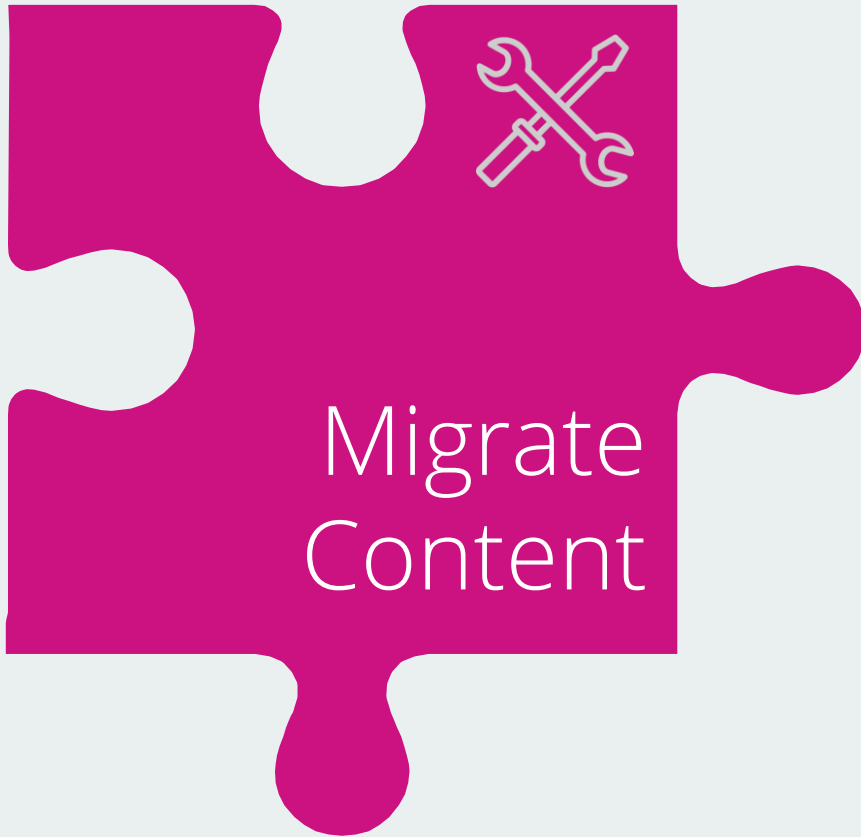
## Migration Options

- Specific Folder
- Full Environment

## Legacy Tools

- RSScripter
- VB.NET Script
- Reporting Services Migration Tool

# Environments



## Considerations when migrating a full instance

- Migrate the database with dbatools
- Instance connection;
- Scale-out servers;
- Encryption Keys;
- Data source connections;
- Subscriptions;
- Security.





# Environments Demo

# Your toolkit



Jobs & Scripts

T-SQL

3<sup>rd</sup> Party  
Tools

Microsoft®  
**SQL Server**™  
Reporting Services

>  
PowerShell

# Thank You



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