


GroupBy 2020 | Oct 27-28

Free Online Training for Data Professionals.
By the Community, for the Community.



Managing SQL Server the easy way **with**  dbatools

A LITTLE BIT ABOUT ME

Let me introduce myself



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ABOUT THIS PRESENTATION

Is this the right fit for me?

Level:

Entry+

Audience:

DBA's with no (or little) experience with dbatools

Objective:

Provide a base of knowledge to start using dbatools

ABOUT THIS PRESENTATION

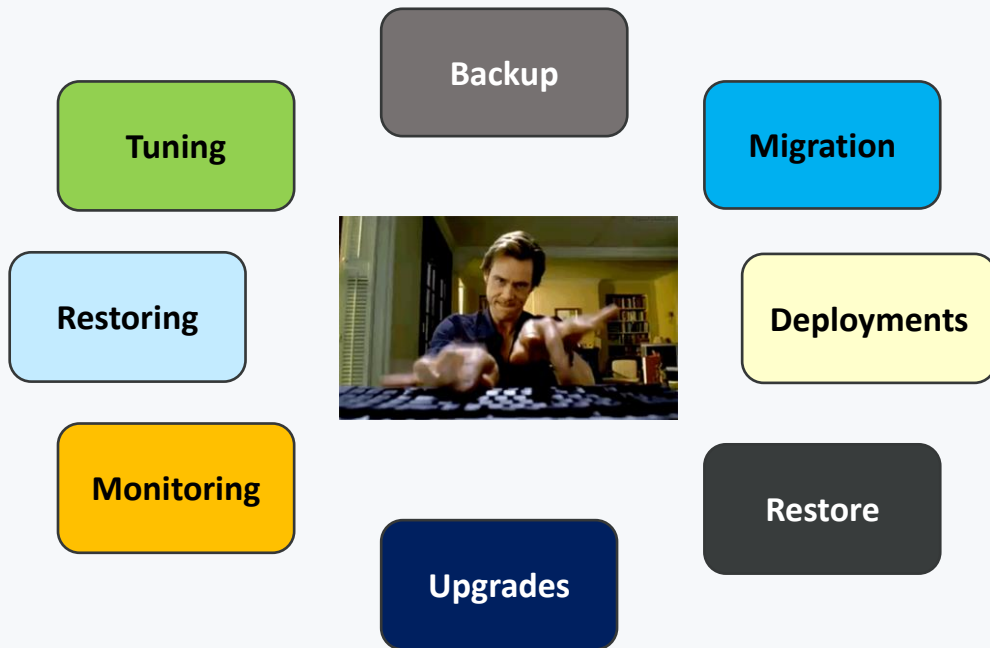
What we will cover

- What is dbatools? (5')
- Why do we need it? (5')
- What do I need to run it? (5')
- What can I do with it? (Demo time, 55')
- Where can I learn more? (5')
- Questions (15')

Scripts will be available in <https://github.com/danielsuarezdata/groupbyconf-2020>

WHAT ARE OUR **USUAL TASKS?**

What I've always tried to explain to my kids



WHAT IS DBATOOLS?

The reason why we're here

- **100% free PowerShell module**
- **Continuous evolution**
- **590+ commands**
- **50+ categories**



Availability Groups
Backup and Restore
Community Tools
Connection Strings
Databases
Data Masking
dbatools Computer Management
dbatools Configuration
dbatools Support tools
dbatools update watcher
DBCC
Detach and Attach

Diagnostics and Performance
Endpoints
Export
File System and Storage
FileStream
Finders
General
Log Shipping
Login and User Management
Mail and logging
Max Memory
Migration

Mirroring
Network and connectivity
Policy-Based Management
Registered Servers
Replication
Resource Governor
Security and Encryption
Server Management
Service Principal Names (SPNs)
Services
Snapshots
sp_configure

SQL Agent
SQL Client Configuration
SQL Management Objects
SSIS
System startup
tempdb
Data Masking
Traces, Profiler and Extended Events
Utilities
Windows Server Failover Cluster
Writing to SQL Tables

WHAT DOES DBATOOLS SUPPORT?

- Components: **ONLY ENGINE**
- Support for: **2000+ AND SQL AZURE**
- Editions: **ALL**
- Instances: **DEFAULT AND NAMED**
- Deployment: **STAND-ALONE, FCI CLUSTER, ALWAYS ON A.G.**
- Platforms: **LINUX, WINDOWS, DOCKER**
- Authentication: **INTEGRATED, NATIVE**

WHAT ABOUT THE REQUIREMENTS?

- Only installed in the client
- Windows: PowerShell v3 minimum, v5.1 o higher recommended
- Linux or macOS: PowerShell 6.1
- Supported Installations:
 - From PowerShell Gallery
 - Directly from GitHub (Win7, Win8)
 - Offline
 - Chocolatey

WHAT DO I NEED TO KNOW?

- No need to be a PowerShell expert
 - Don't learn dbatools, Use dbatools
- We just need to know
 - Some PowerShell basics
 - Some common dbatools usage patterns

POWERSHELL **BASICS**

- Commands align to form Verb-Noun
 - Get-Date / Start-Service / Set-Something / Remove-Whatever
- Pipeline (|) redirects output as an input for another command
- Select-Object
- Sort-Object
- Out-File / Out-GridView

DBATOOLS COMMANDS **BASICS**

- -SqlInstance (Instances name(s))
- -SqlCredential (SQL Server credentials)
- -Database (Name of databases)
- -Credential (Windows Credentials)
- -ComputerName (Host name)
- -EnableException (Show me the details)
- -WhatIf (Let's be cautious just in case)

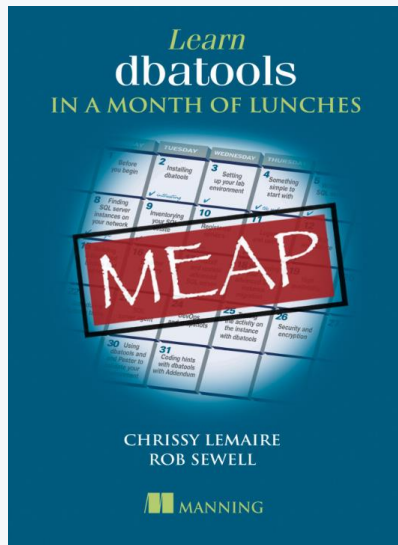


DEMO TIME

The funny part

RECOMMENDED RESOURCES

Where can I learn more?



Book: <https://dbatools.io/book> (Manning)

Web: <https://dbatools.io>

Slack: [#dbatools](https://sqlcommunity.slack.com)

Twitter:

- [@psdbatools](https://twitter.com/psdbatools) (The official handle)
- [@cl](https://twitter.com/cl) (Chrissy LeMaire, original creator)
- And many, many collaborators...





QUESTIONS TIME

Your turn!



THANK YOU!

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