

Speaker



Rob Sewell



SqlDbawithBeard



/robsewellsqldb



International Conference

Think PowerShell is meh? Meet dbatools



PowerShell | DevOps | Cloud

September 16th & 17th Online Event

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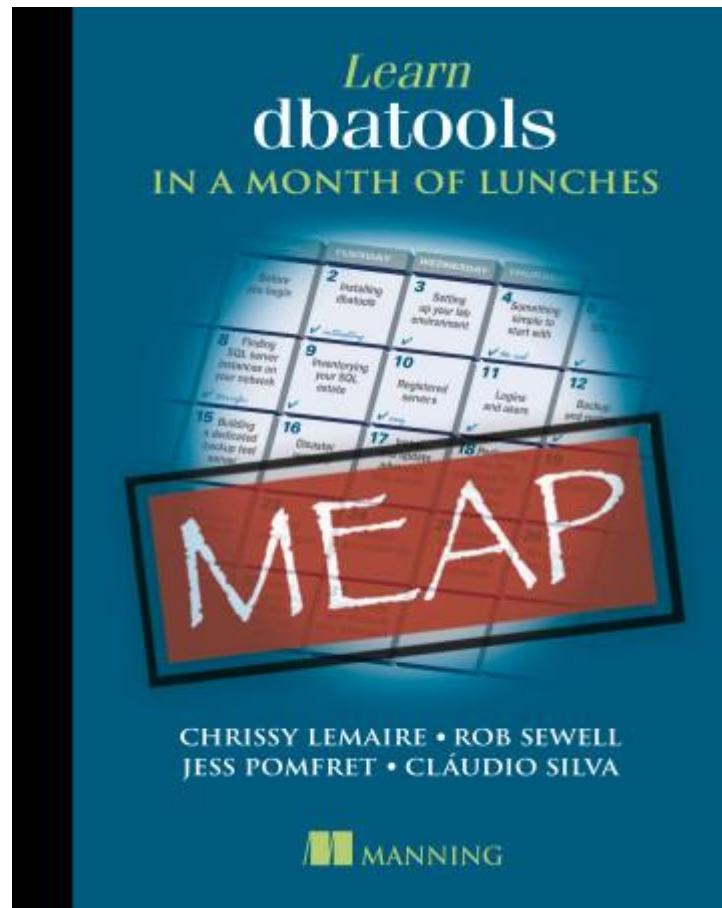


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Learn dbatools in a Month Of Lunches

#dbatoolsMoL

beard.media/book

Content

Slides and Code

All my Presentations

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Capital N because then it works

What is dbatools?

What is dbatools? – basically



digitalohm 11:35 PM

i mean really you've taken pretty much all the crappy parts about writing powershell for sql and turned it into something that makes it easy to focus on the logic for automation etc.



What is dbatools? – actually





PowerShell



SQL Server

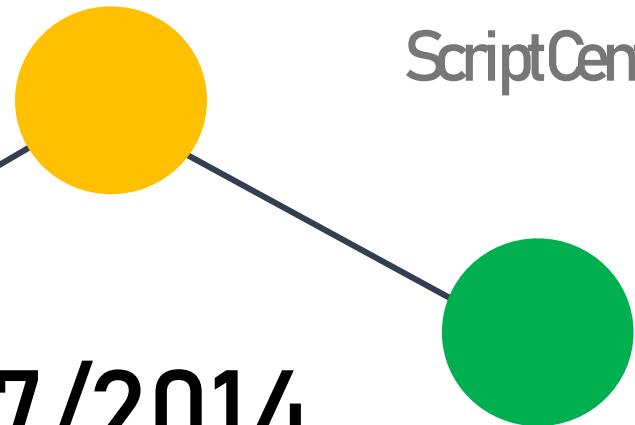
Instance migrations and best practice implementations have never been safer, faster or freer.

[DOWNLOAD](#)[GET STARTED](#)

dbatools.io



07/2014
Need to Migrate
Sharepoint
databases



07/2014
Published to
GitHub &
ScriptCenter

Script resources for IT professionals

Download resources and applications for Windows 10, Windows 8, Windows 7, Windows Server 2012 R2, Windows Server 2012, Windows Server 2008 R2, Windows Server 2008, SharePoint, System Center, Office and other products. Find resources written in VB Script, PowerShell, SQL, JavaScript or other script languages. New resources are added frequently so check often and see what's new.,

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chrissy lemaire 🔍

22 results in chrissy lemaire [Clear] Sort by: Relevance 🔍

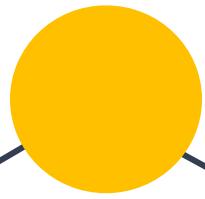
[Migrate SQL Server Logins Between Instances](#)
Chrissy LeMaire
Uses PowerShell and SMO to migrate SQL logins. Logins are completely migrated and maintain their: SIDs, passwords, server/database roles, server/database permission sets & securables, default database and login attributes. Works on SQL Server 2000 and above.
[SQL Server](#), [Powershell](#), [Migration](#)

★★★★★ (13)
Updated 4/18/2016
Released 9/7/2014
5,608 Downloads
[PowerShell](#)

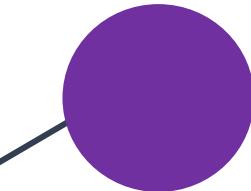
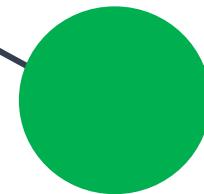
[Microsoft Script Center](#)



07/2014
Need to Migrate
Sharepoint
databases



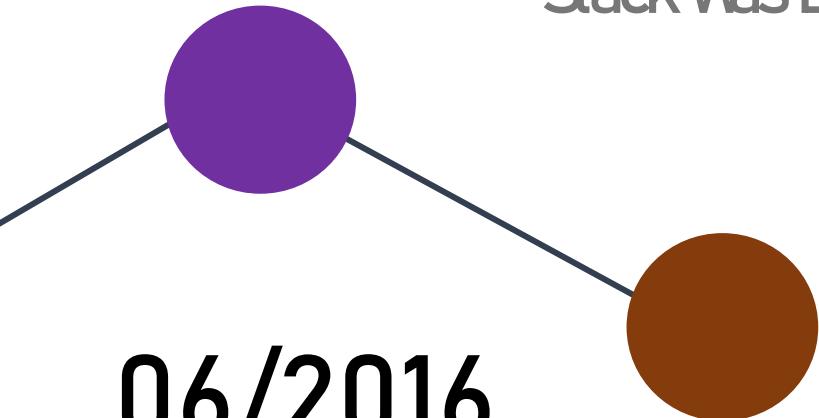
07/2014
Published to
GitHub &
ScriptCenter



06/2016
First Community
Contributions

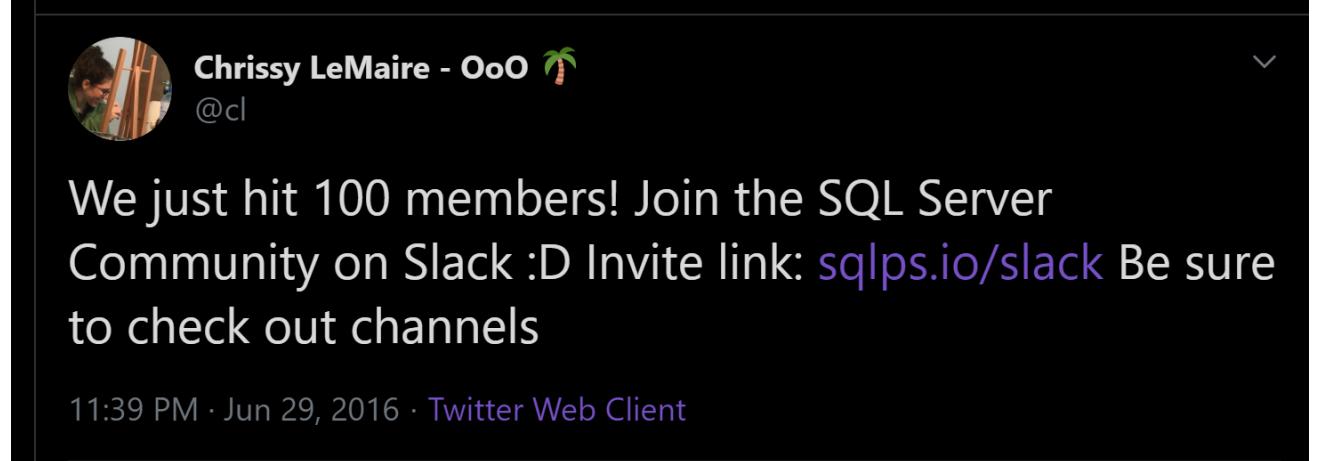


A screenshot of a Twitter conversation. The top tweet is from **AM Boo! 🐱Bat🌈** (@AMtwo) at 8:43 PM · Jun 21, 2016, replying to @cl. It reads: "@cl Expand-SqlITLogResponsibly? I am so intrigued....". Below it is a reply from **Chrissy LeMaire - OoO 🌴** (@cl) at 8:43 PM · Jun 21, 2016, replying to @AMtwo. It reads: "About to update the docs! It's a new function from @ClaudioESSilva <3 It's the second of many DBA best practice commands". The interface shows standard Twitter interaction icons like reply, retweet, like, and share.



06/2016
First Community
Contributions

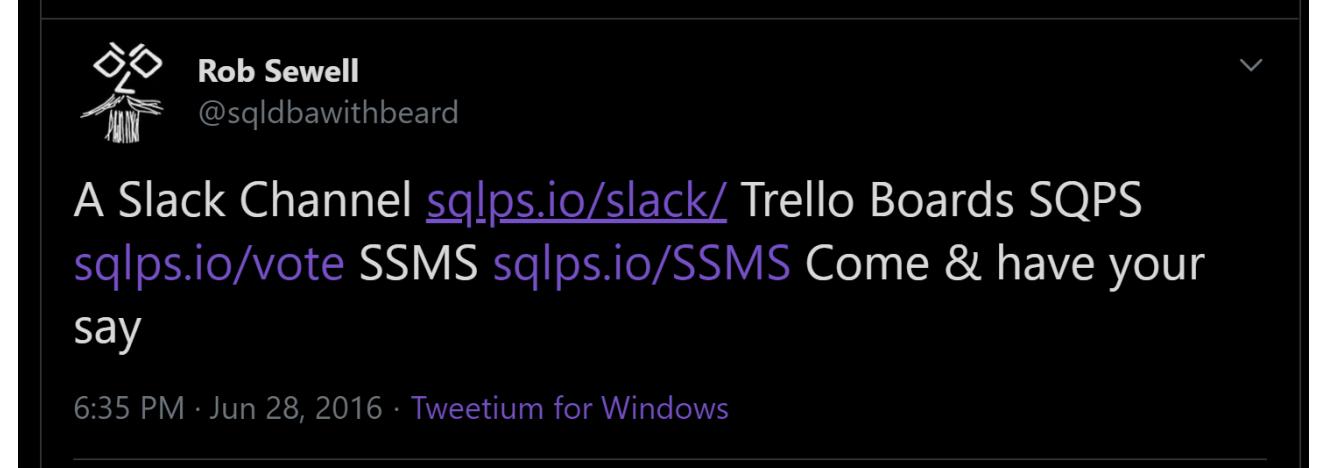
06/2016
SQL Community
Slack Was Born



 **Chrissy LeMaire - OoO** 
@cl

We just hit 100 members! Join the SQL Server Community on Slack :D Invite link: sqlps.io/slack Be sure to check out channels

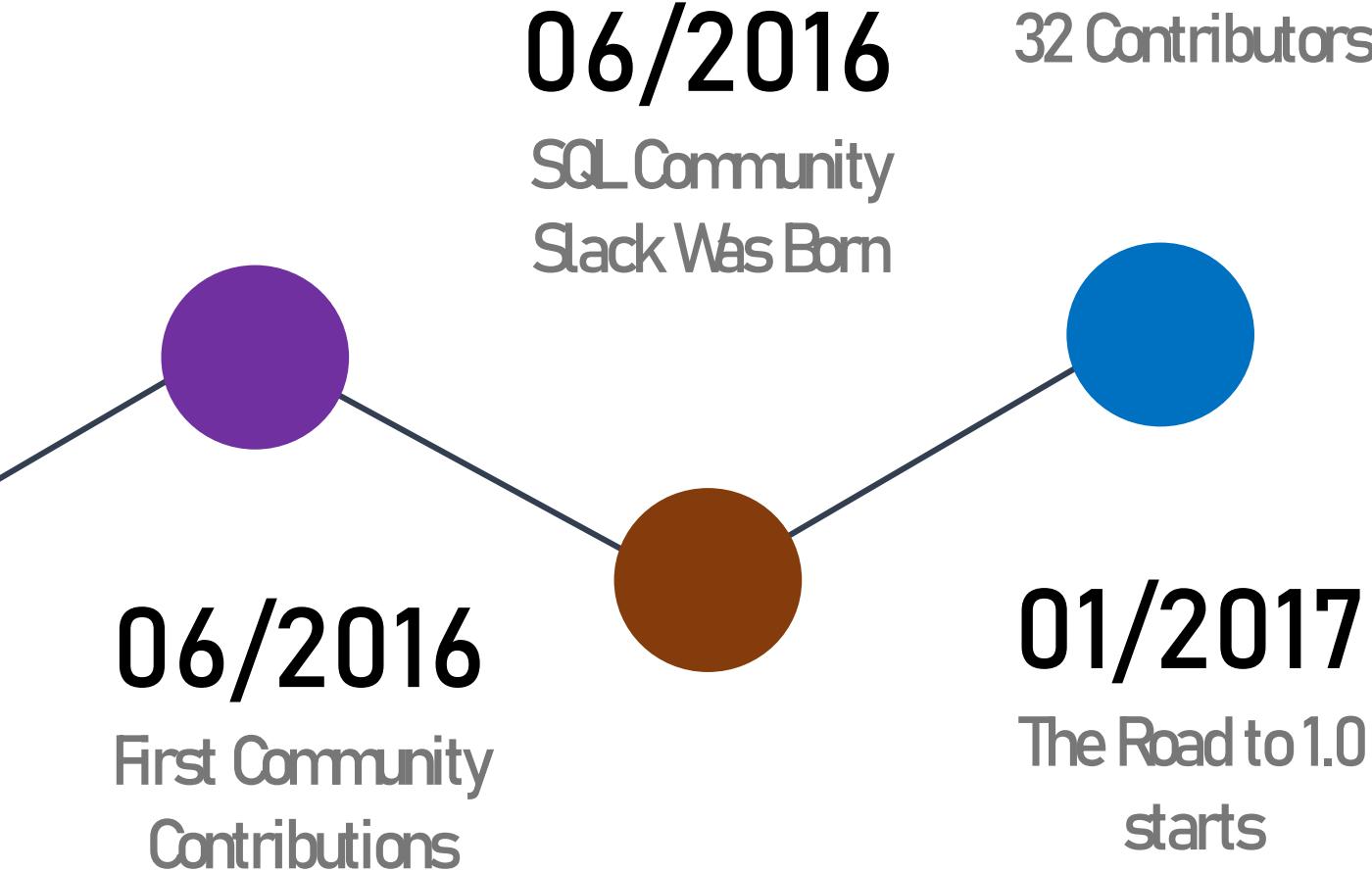
11:39 PM · Jun 29, 2016 · Twitter Web Client



 **Rob Sewell**
@sqldbawithbeard

A Slack Channel sqlps.io/slack/ Trello Boards SQPS sqlps.io/vote SSMS sqlps.io/SSMS Come & have your say

6:35 PM · Jun 28, 2016 · Tweetium for Windows



new year, new standardized coding style

POSTED ON JANUARY 3, 2017 BY CHRISSY LEMAIRE

First, I'd like to thank everyone for a super amazing year! 🎉 Back at the start of 2016, GitHub reports that there were two contributors to the dbatools repository and now there are 32, excluding bots. THIRTY TWO! Cheers, y'all 😊 That's beyond amazing and I don't even have the words to describe how excited I am to be a part of this incredibly fun and useful project.

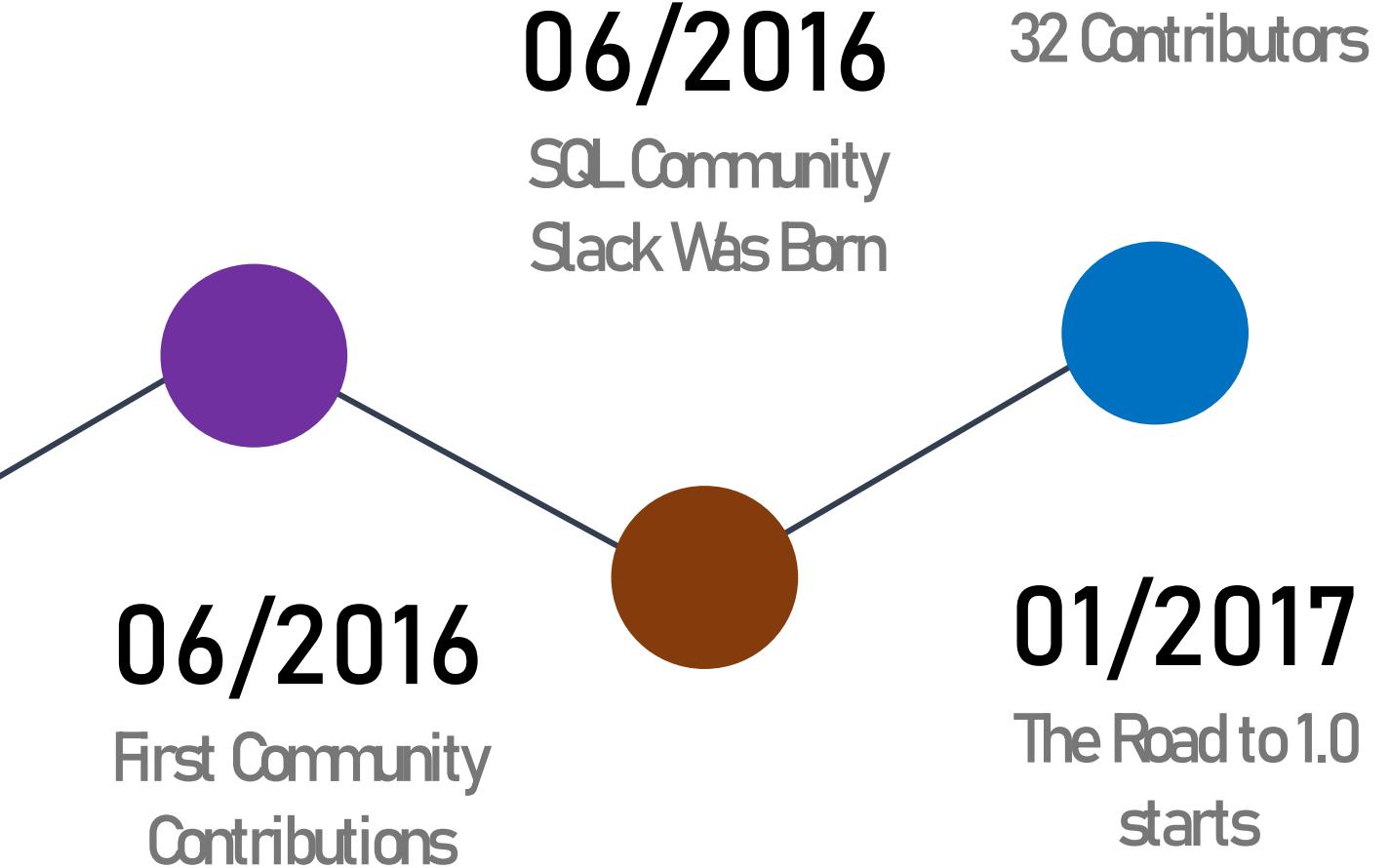
With the help of these 32 contributors, the module has grown from 23 commands to 106! That's 106 ways to help ease the administrative burden faced by SQL Server DBA's and developers.

The good, the bad, and the beautiful

A large majority of the progress we made was beautiful, but there was some ugly. Along the way, during nights of caffeine-fueled coding streaks, I tried my best to keep parameter names, outputs and documentation consistent, but I wasn't as successful as I'd hoped. Without a well thought out style guide, there were 31 other people who didn't have a strict standard to follow, either. Our templates helped but they weren't a perfect solution.

I can say that I wish I had taken the time to make a style guide from the start but that wouldn't be true. Now is actually the best time — now have a variety of commands with a variety of requirements that didn't exist in January of 2016.

We expect that the code freeze will take about 2 months



01/2017
The Road to 1.0
starts

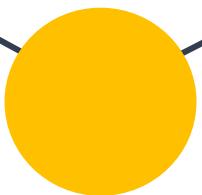
32 Contributors

03/2018
MIT Licence



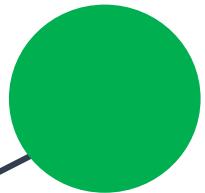
03/2018

MT Licence



06/2019

Dbatools 1.0

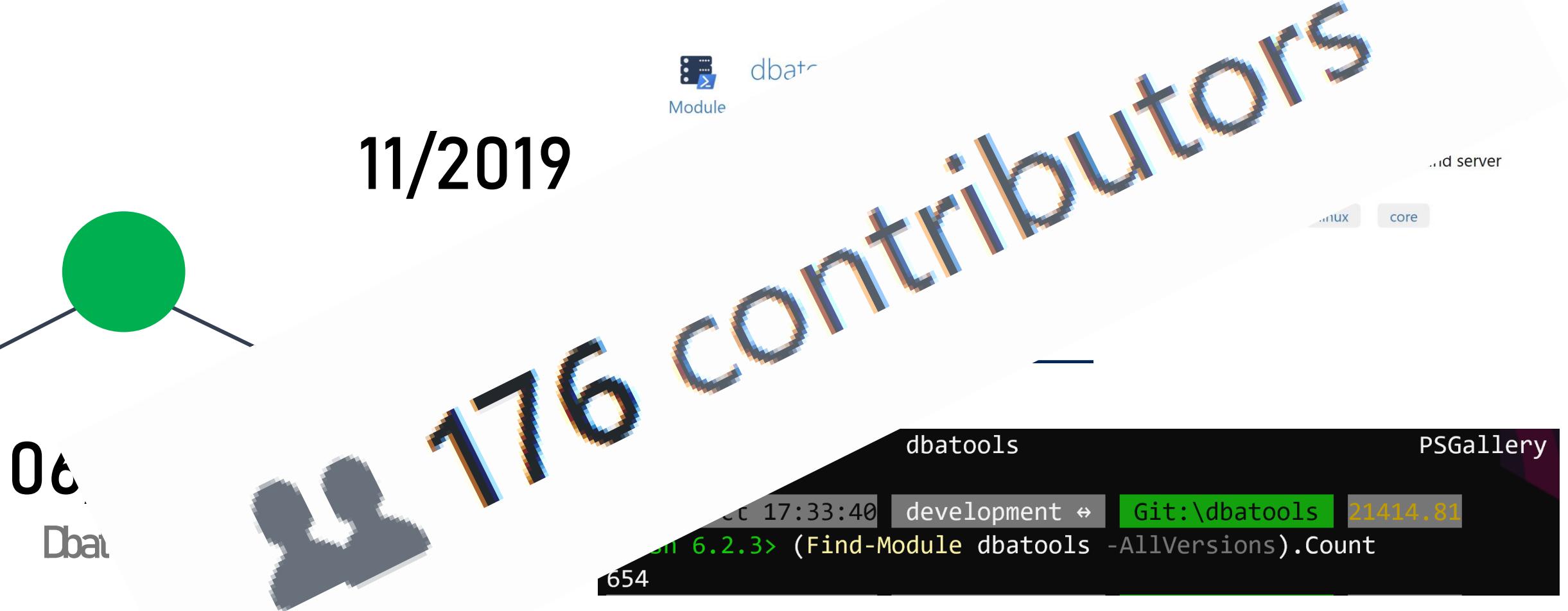


dbatools 1.0 has arrived 🎉

We are so super excited to announce that after 5 long years, dbatools 1.0 is publicly available! Our team had some lofty ... ↗ dbatools.io

6:40 AM · Jun 20, 2019 · Twitter Web Client

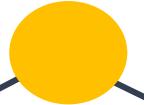
The image shows a screenshot of a Twitter post from the account @psdbatools. The post features a celebratory message "dbatools 1.0 has arrived 🎉" and a link to the dbatools website. Below the message, there is a screenshot of a Windows Start Menu search results page showing the dbatools application icon. The tweet was posted at 6:40 AM on June 20, 2019, via the Twitter Web Client.





07/2014

Need to Migrate
Sharepoint
databases



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06/2016

First Community
Contributions



06/2016

SQL Community
Slack Was Born



32

Contributors

01/2017

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03/2018

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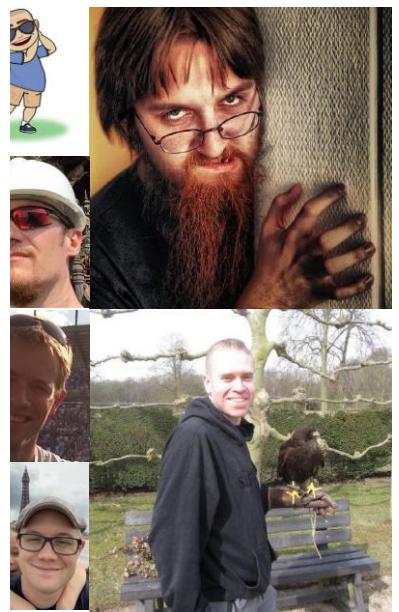
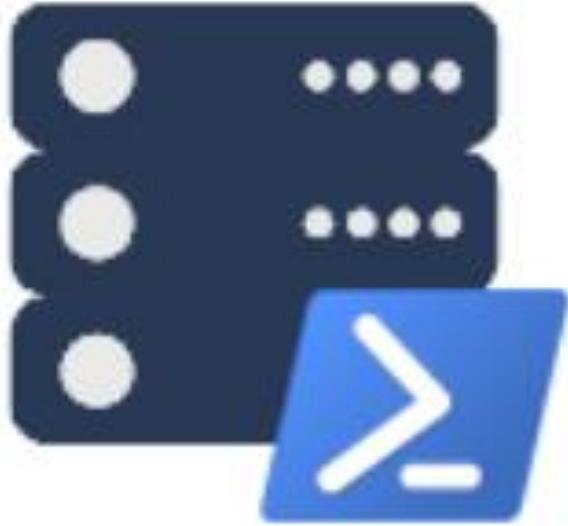
06/2019

Dbatools 1.0

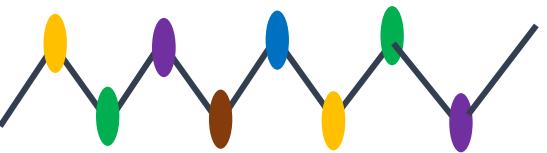


11/2019





And on and
should not



Dbatools 1
be more!)

1,054,774
Downloads

more people who

wrote this slide – might

Installation on a connected machine



Photo by [Slava Bowman](#) on [Unsplash](#)

Installation on a connected machine

```
PS > Install-Module dbatools
```

```
PS > Install-Module dbatools -Scope CurrentUser
```

Installation in a fortress



Photo by [Klára Koszeghyova](#) on [Unsplash](#)

File Action View Help



Certificates - Current User
> Personal
> Trusted Root Certification Au
> Enterprise Trust
> Intermediate Certification Au
> Active Directory User Object
Trusted Publishers
Certificates
> Untrusted Certificates
> Third-Party Root Certification
> Trusted People
> Client Authentication Issuers
> Smart Card Trusted Roots

Trusted Publishers store contains 1 certificate.

```
Windows PowerShell
Copyright (C) 2016 Microsoft Corporation. All rights reserved.
```

PS C:\Users\ctrl1b> Import-Module dbatools

Do you want to run software from this untrusted publisher?
 File C:\Program Files\WindowsPowerShell\Modules\dbatools\0.9.3\xml\dbatools.Format.ps1xml is pub
 trusted on your system. Only run scripts from trusted publishers.
 [V] Never run [D] Do not run [R] Run once [A] Always run [?] Help (default is "D"): a
 PS C:\Users\ctrl1b>

Whilst we are talking about security

Certificate

General Details Certification Path

Certificate Information

This certificate is intended for the following purpose(s):

- Ensures software came from software publisher
- Protects software from alteration after publication

* Refer to the certification authority's statement for details.

Issued to: dbatools

Issued by: DigiCert SHA2 Assured ID Code Signing CA

Valid from: 5/8/2017 **to:** 5/13/2020

Issuer Statement

OK



Installation in a fortress

```
PS > Save-Module dbatools -Path C:\SomeDirectory
```

Installation in a fortress

A photograph of a person in a red jacket and black pants carrying large, cylindrical brown packages strapped to their back. They are walking through a rugged, rocky terrain with a massive, snow-capped mountain range in the background under a dark, cloudy sky.

Photo by [Christopher Burns](#) on [Unsplash](#)

[dbatools.io](#) | [dbatools.io/slack](#) | [dbatools.io/youtube](#) | [sqlps.io](#)

Installation in a fortress

For Everyone

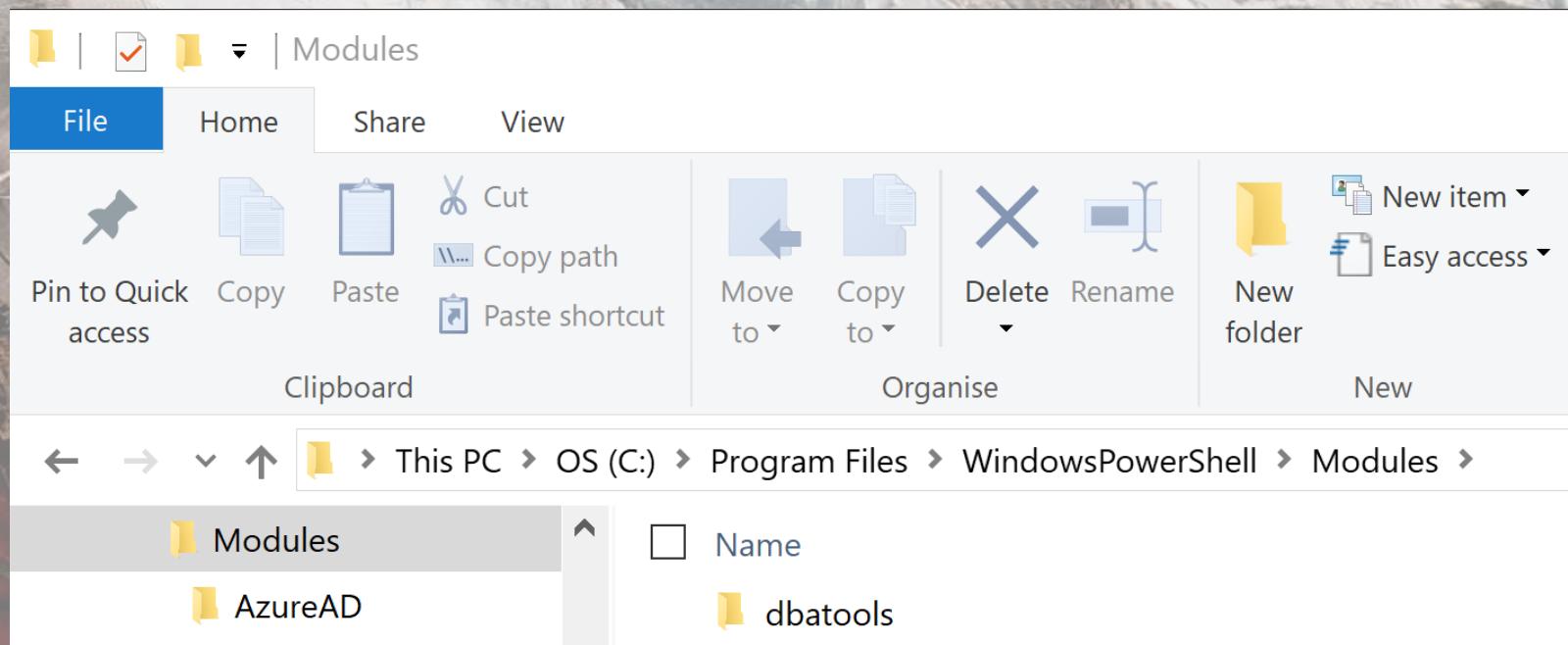
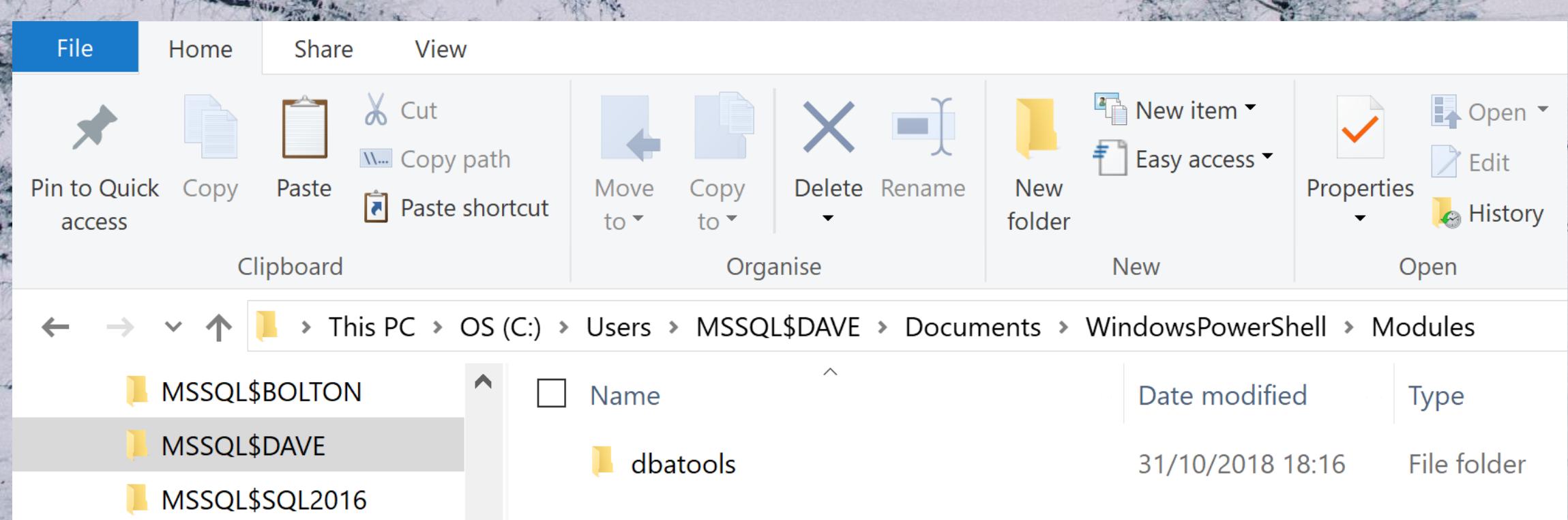


Photo by [Christopher Burns](#) on [Unsplash](#)

[dbatools.io](#) | [dbatools.io/slack](#) | [dbatools.io/youtube](#) | [sqlps.io](#)

Installation in a fortress



Extensive documentation within each command

```
PS > Get-Help Start-DbaMigration -Detailed
```



Documentation for each command online



dbatools docs

download get started commands docs team subscribe find us build reference bill of health

commands

Search

[Add-DbaAgDatabase](#)

[Add-DbaAgListener](#)

[Add-DbaAgReplica](#)

[Add-DbaCmsRegServer](#)

[Add-DbaCmsRegServerGroup](#)

[Add-DbaComputerCertificate](#)

[Add-DbaDbMirrorMonitor](#)

[Add-DbaPfDataCollectorCounter](#)

[Backup-DbaDatabase](#)

[Backup-DbaDbCertificate](#)

Backup-DbaDatabase

Author: Stuart Moore ([@napalmgram](#)), [stuart-moore.com](#)

Synopsis

Backup one or more SQL Server databases from a single SQL Server SqlInstance.

Description

Performs a backup of a specified type of 1 or more databases on a single SQL Server Instance. These backups may be Full, Differential or Transaction log backups.

Syntax

```
Backup-DbaDatabase [-SqlCredential <PSCredential>] [-Database <Object[]>] [-ExcludeDatabase <Object[]>]
[-BackupDirectory <String[]>] [-BackupFileName <String>] [-ReplaceInName] [-CopyOnly] [-Type <String>] [-CreateFolder]
[-FileCount <Int32>] [-CompressBackup] [-Checksum] [-Verify] [-MaxTransferSize <Int32>] [-BlockSize <Int32>]
[-BufferCount <Int32>] [-AzureBaseUrl <String>] [-AzureCredential <String>] [-NoRecovery] [-BuildPath] [-WithFormat]
[-Initialize] [-SkipTapeHeader] [-TimeStampFormat <String>] [-IgnoreFileChecks] [-OutputScriptOnly] [-EnableException]
[-WhatIf] [-Confirm]

[<CommonParameters>]

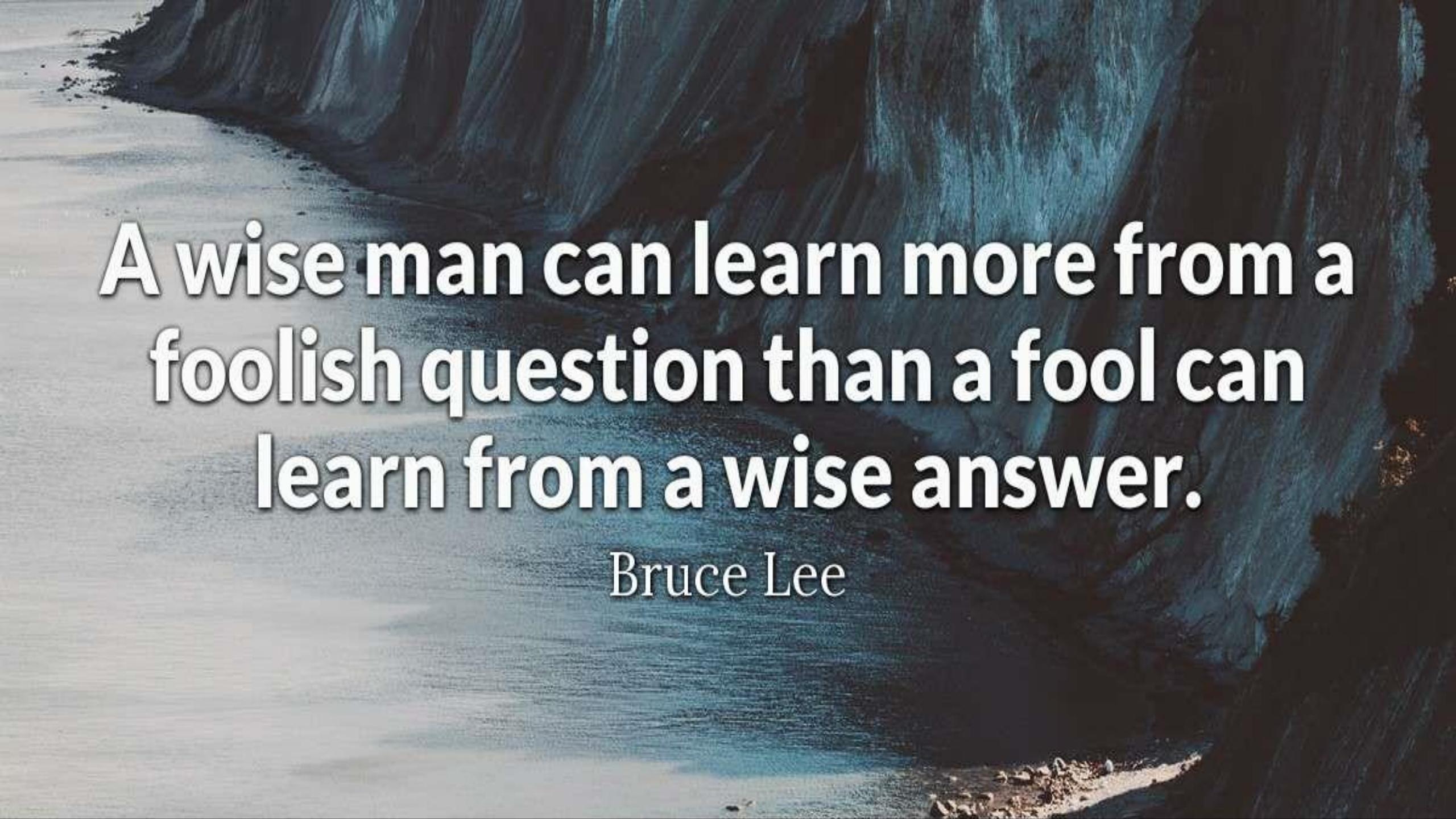
Backup-DbaDatabase -SqlInstance <DbaInstanceParameter> [-SqlCredential <PSCredential>] [-Database <Object[]>]
[-ExcludeDatabase <Object[]>] [-BackupDirectory <String[]>] [-BackupFileName <String>] [-ReplaceInName] [-CopyOnly]
[-Type <String>] [-CreateFolder] [-FileCount <Int32>] [-CompressBackup] [-Checksum] [-Verify] [-MaxTransferSize
```

Open Source but there is support



A screenshot of a Slack channel interface titled '#dbatools'. The channel has 1,660 members and 34 topics. A message from user 'amitchell21' at 2:55 PM asks if it's possible to transfer a cert to another SQL node with dbatools. Another user, 'alevyinroc', replies at 3:02 PM asking if backing up the cert and restoring it would work. A note below states that dbatools has 'Backup-DbaDbCertificate' and 'Restore-DbaDbCertificate' cmdlets. The Slack interface includes a sidebar with 'SQL Server Com...' and a user profile for 'sqldbawithabeard'.

dbatools.io/slack

A dramatic photograph of a large, dark, turbulent wave crashing onto a sandy beach at night or in low light conditions. The wave is illuminated from below, creating a bright, glowing effect against the dark water and sky. The sand on the beach is visible in the foreground.

A wise man can learn more from a
foolish question than a fool can
learn from a wise answer.

Bruce Lee

Buckle Up - It's Demo Time !

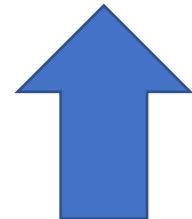


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Capital N because then it works



Thank you!



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