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Introduction to dbatools

How dbatools Work

Setting Up dbatools

Next Steps



AGENDA

dbatools.io: Revolutionizing SQL Server Management with PowerShell

• **Overview:** dbatools is a free, open-source, cross-platform PowerShell framework designed for automating and managing SQL Server. It offers a rich collection of commands (cmdlets) that simplify various database administration tasks.

• **Key Features:**

- **Comprehensive Toolset:** Over 500 cmdlets for database migrations, testing, backups, restores, and more.
- **Community-Driven:** Developed by SQL Server professionals for the community, ensuring it meets real-world needs.
- **Ease of Use:** Simplifies complex SQL Server management tasks, making them more accessible to administrators and developers alike.

• **Benefits:**

- **Efficiency:** Automates repetitive tasks, saving time and reducing errors.
- **Versatility:** Supports tasks ranging from instance migration to performance tuning, suitable for environments of any size.
- **Accessibility:** Leverages PowerShell to integrate with SQL Server, making powerful database management functionalities available without deep SQL expertise.

"Empower your SQL Server management with dbatools – the ultimate PowerShell toolkit tailored for the SQL professional."



INTRODUCTION TO DBATOOLS

SQL Server Migration with dbatools - Overview

- **Objective:** Migrate SQL Server instance to a new server
- **Tools:** PowerShell and dbatools module
- **Preparation:**
 - Install dbatools: **Install-Module -Name dbatools**
 - Perform pre-migration checks for compatibility and ownership
- **Migration Command:**
 - Use **Start-DbaMigration** for a comprehensive instance migration
 - Includes databases, logins, jobs, and more
- **Key Parameters:**
 - **-Source:** Current SQL Server instance
 - **-Destination:** New SQL Server instance
 - **-BackupRestore:** Method for database migration
 - **-NetworkShare:** Location for backup files

HOW DBATOOLS WORK

SQL Server Migration with dbatools - Execution & Verification

- **Migration Execution:**

- Command: **Start-DbaMigration -Source OldServer -Destination NewServer -BackupRestore -NetworkShare \\SharedFolder\Backup**

- Automates the entire migration process, minimizing downtime and errors

- **Post-Migration Verification:**

- Verify databases, logins, and jobs on the new server

- Commands:

- **Get-DbaDatabase -SqlInstance NewServer**

- **Get-DbaLogin -SqlInstance NewServer**

- **Get-DbaAgentJob -SqlInstance NewServer**

- **Outcome:**

- A seamless migration process that ensures all critical SQL Server components are accurately transferred to the new server

- Reduced manual effort and enhanced accuracy

HOW DBATOOLS WORK

USE CASES

Use Cases:

- **Automation:** dbatools simplifies SQL Server management by automating tasks
- **Ease of Use:** offering over 500 cmdlets for comprehensive administration. It's a community-driven, open-source project, ensuring up-to-date, practical tools for efficiency and ease of use.
- **Embracing SQL Server Admin Efficiency:** Ideal for administrators seeking to enhance productivity and leverage collective expertise in database management.

DEMO: HOW TO SETUP DBATOOLS

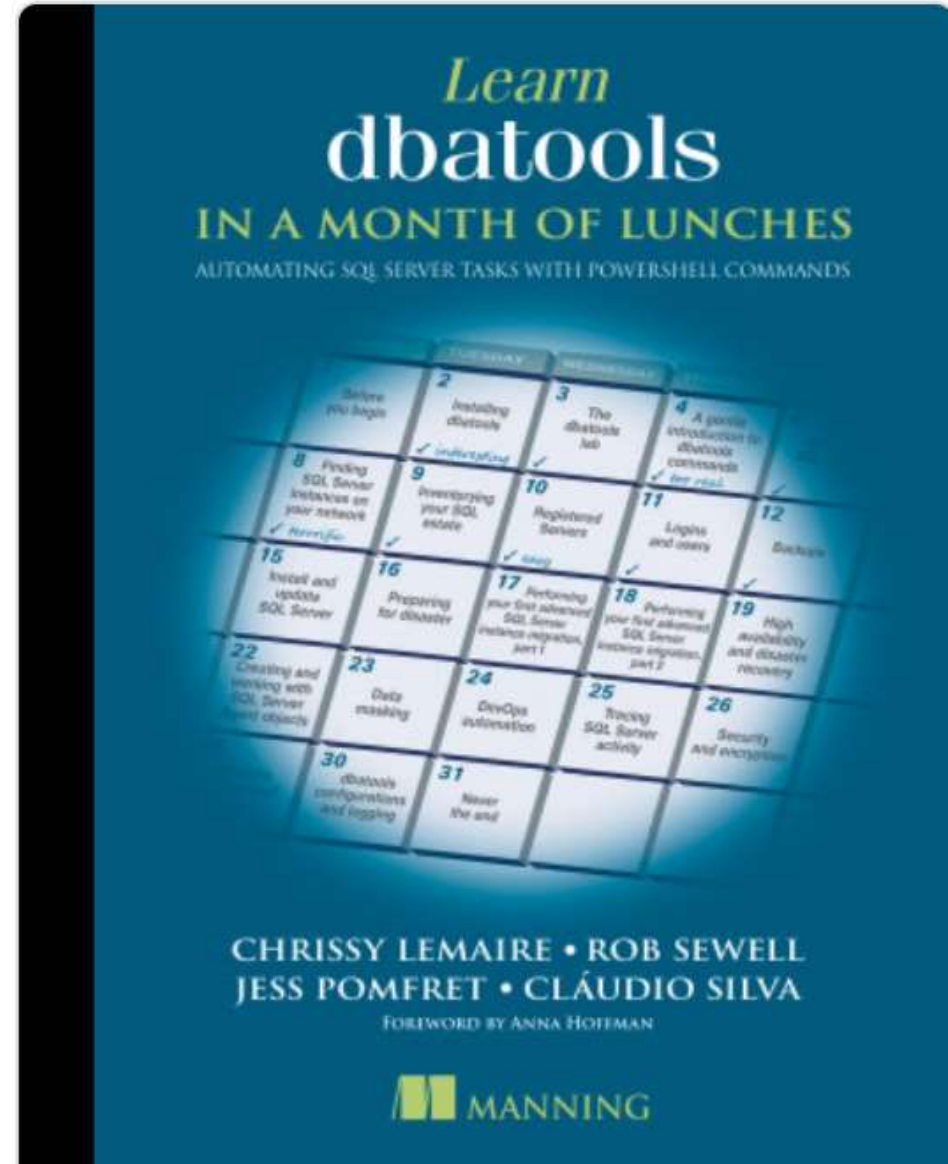
Let us now explore dbatools by looking on how to set it up.

NEXT STEPS

Refer to the dbatools.io website

Get a Copy of Learn dbatools in a month of Lunches

[Learn dbatools in a Month of Lunches \(manning.com\)](https://www.manning.com/books/learn-dbatools-in-a-month-of-lunches)



THANK YOU

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