



The dbachecks Pester Upgrade Adventure



Many thanks to our sponsors:



What Is dbachecks?

dbachecks is an open source PowerShell module for validating the configuration of SQL Server instances using Pester.



The Hurdles

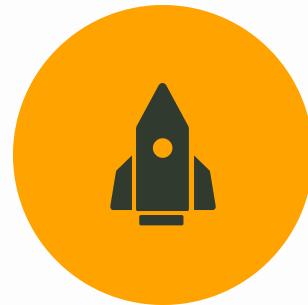


Upgrading to Use Pester v5 without
breaking existing code

Invoke-DbcCheckv4 and Invoke-
DbcCheckv5



Testing the Upgrade
Ensuring that we got the same results with
both versions.



Performance Improvements
Making it run faster using Profiler

The dbachecks Pester Upgrade Adventure.

Along the journey...



Bug hunting

Found bugs in v4 due to
methodical process to convert



Standardised everything

Every test has a skip
Every test has excludes



Extensions & Tests

Spell check
Testing tests



Demo Time

```
[15:55:51][Invoke-PerfAndValidateCheck]
Running with

QueryStoreEnabled,CLRAssembliesSafe

Checks against 3 SQL Containers

With original Code it takes 9.47 Seconds
With New Code it takes 2.66 Seconds

New Code for these 2 checks
is saving 6.81 seconds
from a run of 9.47 seconds
New Code runs in 28.06 % of the time

[15:55:51][Invoke-PerfAndValidateCheck]
The Tags are the same
[15:55:51][Invoke-PerfAndValidateCheck]
The Total Tests Run are the same 23 23

[15:55:51][Invoke-PerfAndValidateCheck]
The Total Tests Passed are the same 15 15

[15:55:51][Invoke-PerfAndValidateCheck]
The Total Tests Failed are the same 8 8

[15:55:51][Invoke-PerfAndValidateCheck]
The Total Tests Skipped are the same 0 0
```

Testing every test

- Are we getting the same results?
- Is it faster?

“The dbachecks Pester Upgrade Adventure was a great team effort that required collaboration, creativity, and dedication to succeed.”

Collaboration Across Teams



Rob Sewell



Jess Pomfret



Claudio Silva

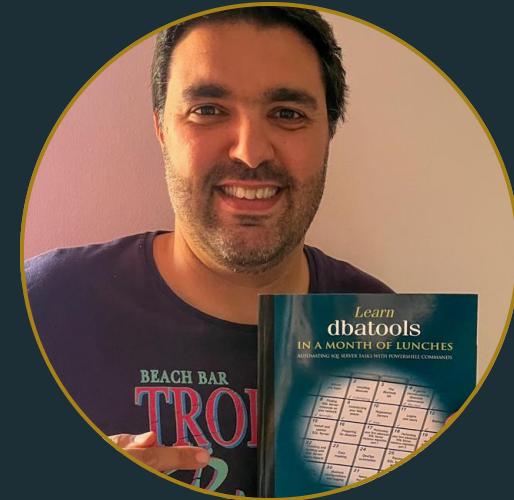
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Fitting Side Projects into a Busy Schedule



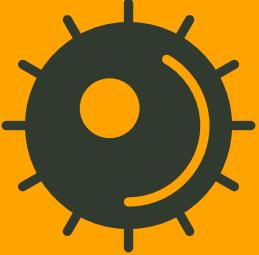
Time Management

Managing your time to make room for side projects



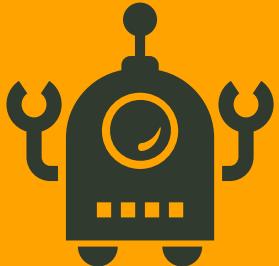
Prioritization

Deciding which tasks are most important to focus on



Organization

Creating a plan and staying organized to make the most of your time



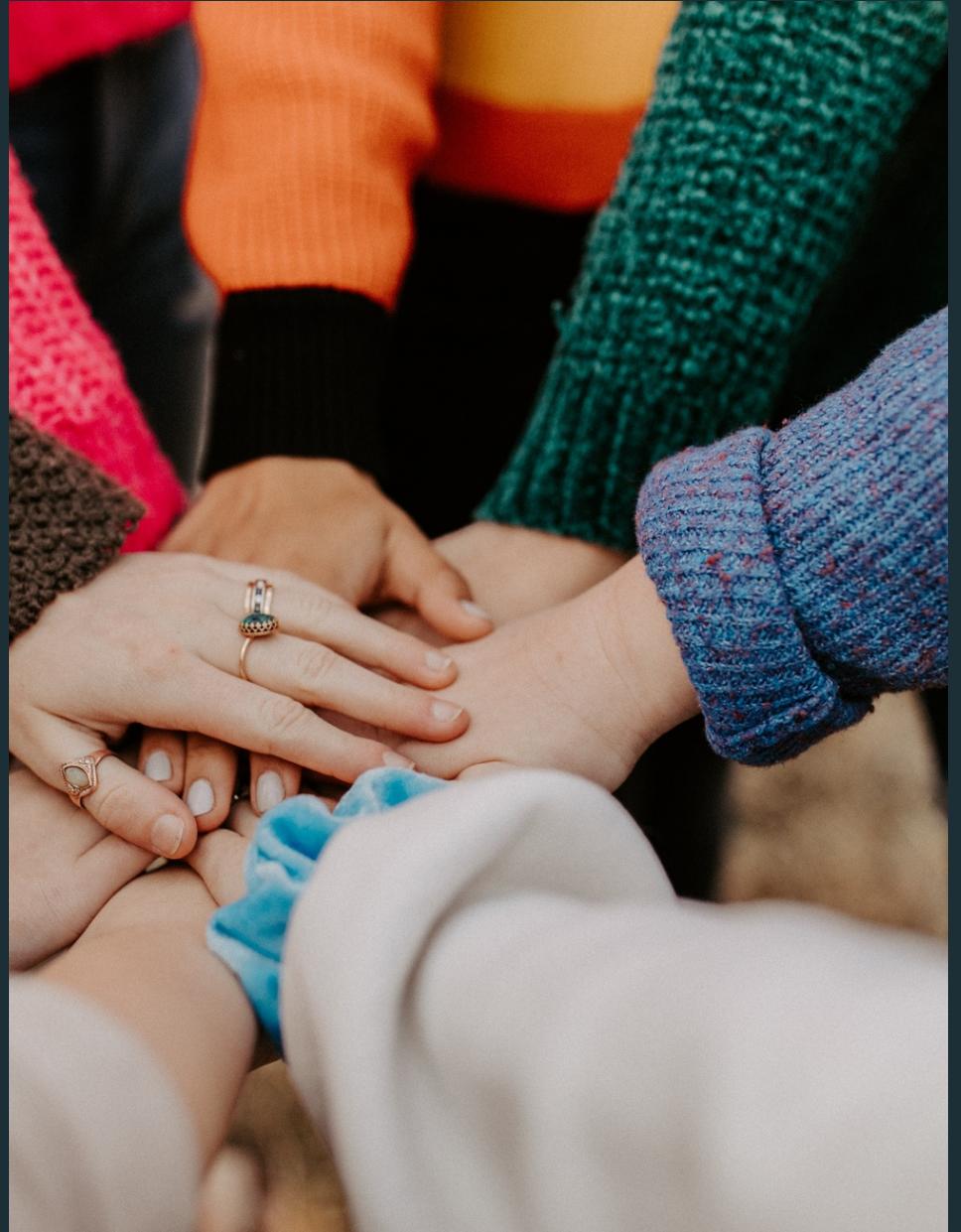
Robots

Automating repeated tasks makes contributing easier and more reliable

Finding time to work on side projects can be a challenge, but with proper time management, prioritization, organization, & automation, you can make the most of your time & achieve your goals.

Dev Containers for Seamless Collaboration

Dev Containers provide a seamless way for developers to collaborate on projects. With Dev Containers, developers can quickly spin up a development environment that is pre-configured with the necessary tools and dependencies to work on the dbachecks Pester Upgrade Adventure.



Introduction to Sampler

Sampler is a powerful tool for developers that helps them to quickly and easily create, deploy, and manage PowerShell modules.

It provides a streamlined workflow that simplifies the development process and makes it easier to deploy modules.





- ✓ makes use of community modules
PsDepends, Plaster, ModuleBuilder, InvokeBuild etc
- ✓ Clean development environment
Build and Test in a new clean environment. Its the same for everyone
- ✓ Deploy Easily (and other Tasks)
Deploy to PowerShell Gallery and GitHub Releases easily with preview and actual releases.

ASK

