

Real-World PowerShell for the DBA

Amy Herold
Sr. Database Administrator
One Technologies
Level: Introductory to Intermediate

The Ultimate Education Destination



2018
Orlando

Who Am I?



**Microsoft
CERTIFIED**

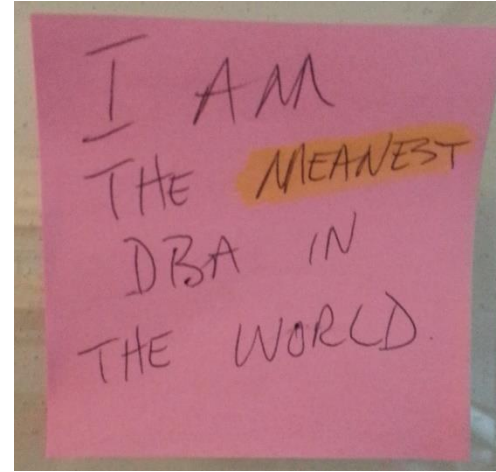
IT Professional

Database Administrator
2008

**Microsoft
CERTIFIED**

IT Professional

Database Developer
2008



- Amy Herold
- Sr. Database Administrator
- One Technologies
texasamy



www.sqlkitten.com



North Texas SQL Server User Group
Director Of Programs



Agenda

- DBATools
 - Installing
 - Useful cmdlets for every day
- Gathering and Applying Permissions
- Deployment Automation
 - Variations of Processes
 - Overcoming Issues and Resistance

DBATools

- <https://dbatools.io/commands/>
- Always Review the Code
- Ask Questions, Make Suggestions
 - Twitter
 - Slack

DBATools

Demo

Gathering and Applying Permissions

- Restoring Databases
 - Production to <QA, Stage, etc>
 - Permissions not the same
 - Cleanup?

Gathering and Applying Permissions

- Requirements
 - Central Database
 - Create Table
 - CustomPowerShell Cmdlets
 - Get-Permissions
 - Apply-Permissions

Gathering and Applying Permissions

- Eliminates manual maintenance of permission scripts
- Maintains a history of permissions by server,database

Gathering and Applying Permissions

Demo

Deployment Automation

- Variations of Processes
 - How are you doing SQL deployments now?
 - How often do you deploy SQL code?
 - How many deployments do you have?
 - How many scripts do you have in a single deployment?

Deployment Automation

- Source Control
 - Github
 - TFS
 - Other
- Security Concerns
 - PII (Personally Identifiable Information)
 - PCI (Payment Card Industry)
- Other Issues

Deployment Automation

- Overcoming issues and resistance
 - Automation is POSSIBLE!
 - ~~3rd Party Tools~~
 - Code – Get Creative!

Deployment Automation

Demo

Real-World PowerShell for the DBA

Questions?

Real-World PowerShell for the DBA

Thank you

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