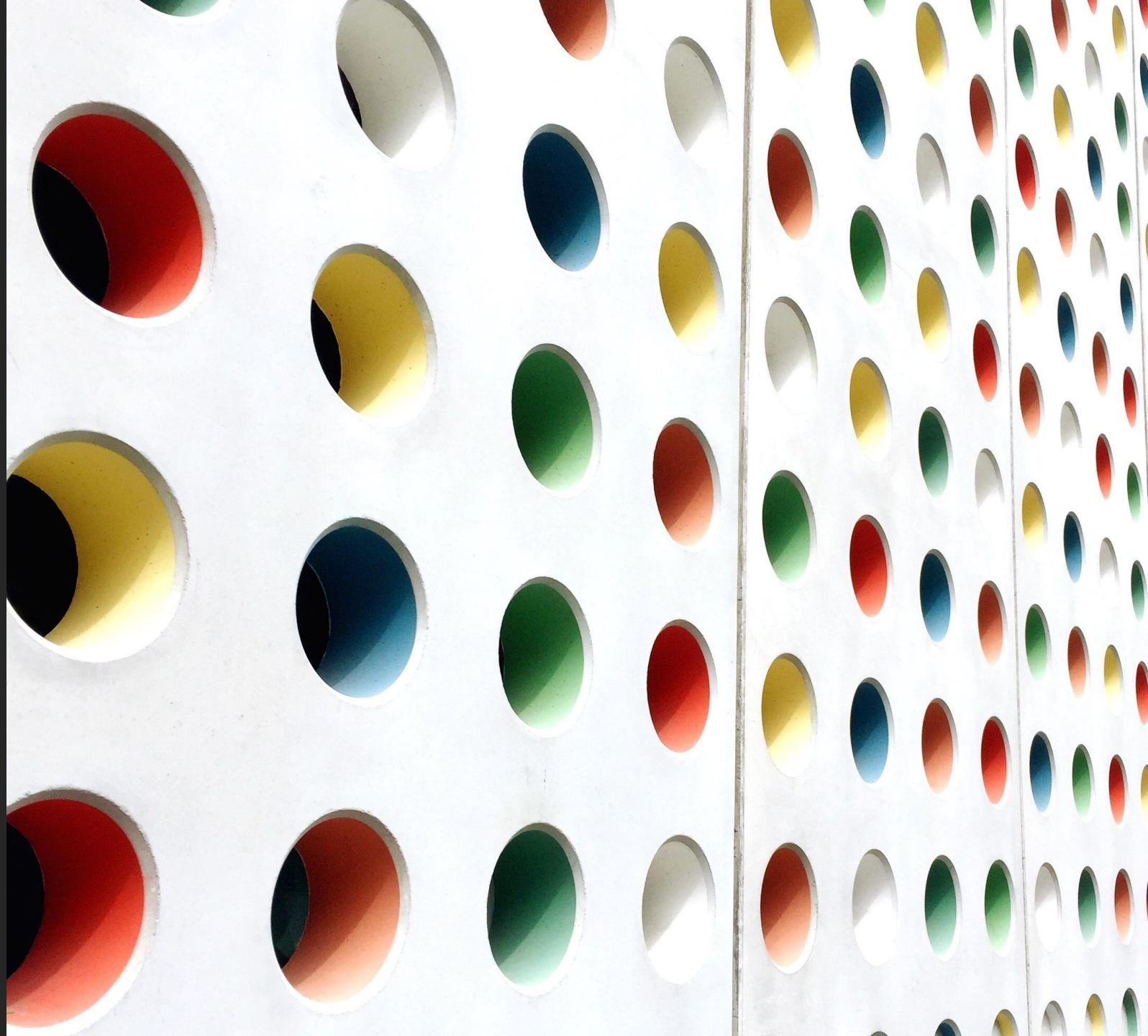


# Extending Azure Data Studio with PowerShell

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PASS USER GROUP - OCT 2020





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Microsoft MVP, Azure Advisor, VMware  
vExpert, Citrix CTA



@mikenelsonio

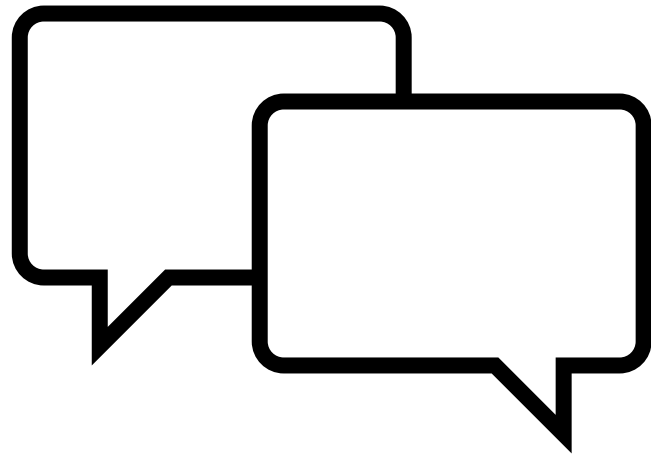


mikenelson-io



<https://mikenelson.io>





# Discuss

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What ADS is

vs SSMS and beyond

Extensions --> PowerShell

Demos

# What it is...

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# ...What it is

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Electron  
jS, HTML, CSS



On-Prem, Hybrid, Cloud



Lightweight



Shortcuts



Open Source



Integrated terminals

And much more... TSQL editor & query results view, task history, management dashboard, extensions, workspaces, object explorer, connection management ...

# vs SSMS

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- Heavy
- Not really keyboard friendly
- No intellisense
- No easily extendable
- No source control
- Theming
- Exports of CSV, JSON, XLXS
- Notebooks

```
SELECT REPLACE( 'Use SSMS ', 'SSMS ', 'ADS ');  
GO
```

ADS vs SSMS comparison chart - <https://docs.microsoft.com/en-us/sql/azure-data-studio/what-is>

# Choices

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## Use Azure Data Studio if you:

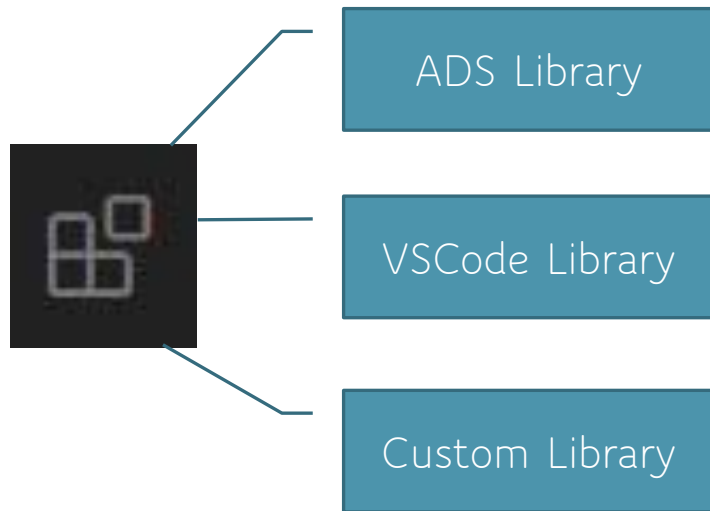
- Need to run on macOS or Linux
- Are connecting to a SQL Server 2019 big data cluster
- Spend most of your time editing or executing queries
- Need the ability to quickly chart and visualize result sets
- Can execute most administrative tasks via the integrated terminal using sqlcmd or Powershell
- Have minimal need for wizard experiences
- Don't need to do deep administrative configuration

## Use SQL Server Management Studio if you:

- Spend most of your time on database administration tasks
- Are doing deep administrative configuration
- Are doing security management, including user management, vulnerability assessment, and configuration of security features
- Make use of the Reports for SQL Server Query Store
- Need to make use of performance tuning advisors and dashboards
- Are doing Import/Export of DACPACs
- Need access to Registered Servers and want to control SQL Server services on Windows

# Extensions

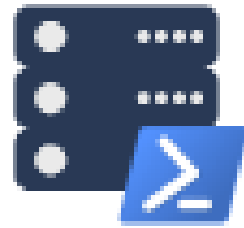
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# Defacto Standard

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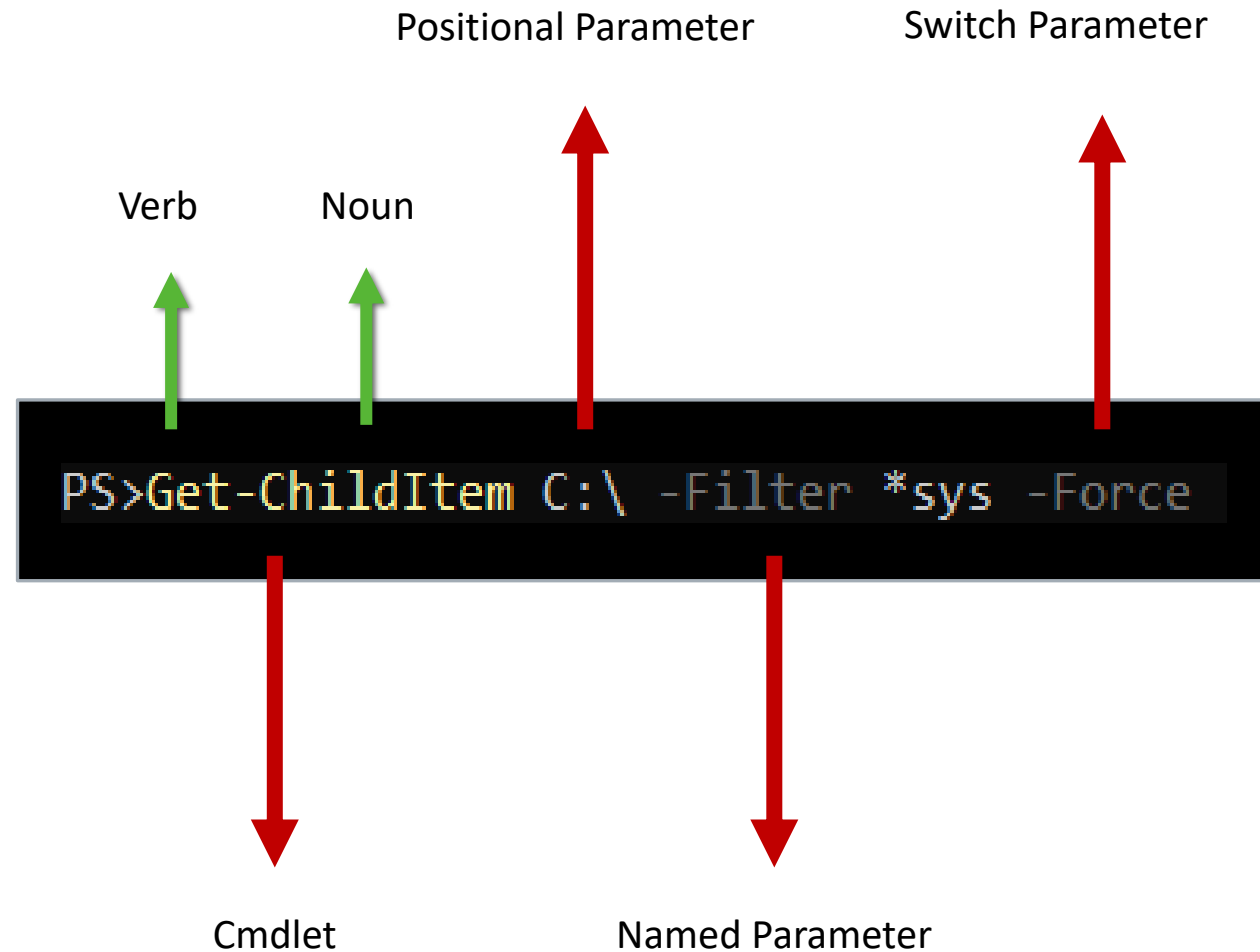


**dbatools** >500 cmdlets!



SQLServer & SQLPS

# SYNTAX



# COMMANDS TO LEARN

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Get-Help

Update-Help

Get-Command

Get-Member

[Show-Command]

# [Resource]

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Github – <https://github.com/Microsoft/azuredatastudio>

FAQ – <https://docs.microsoft.com/en-us/sql/azure-data-studio/faq>

VSCoDe Keyboard Shortcut Cheat Sheets –  
<https://code.visualstudio.com/docs/getstarted/keybindings>

# dem0s

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