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Mastering VSCode

The modern tool for next-gen engineer

Jaap Brasser

Developer Advocate, Rubrik

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Microsoft MVP Most Valuable Professional

Microsoft vmware SystemFrontier Tecoholic The Global Tech Community Platform

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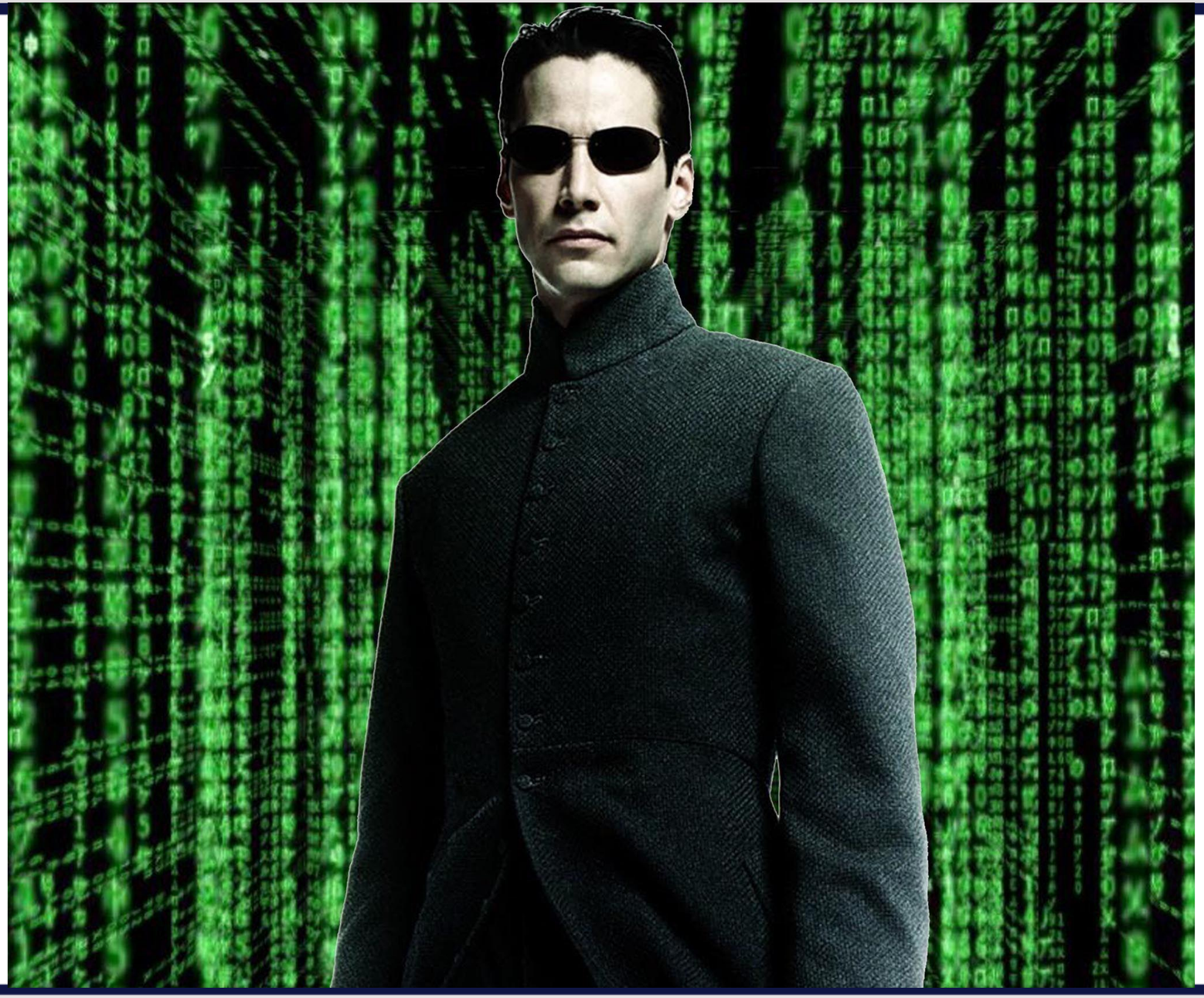
Jaap Brasser

Tweets	jaap_brasser
Codes	jaapbrasser
Works	Developer Advocate @ Rubrik
Does	Blogger, Speaker, Tech Enthusiast
Likes	Cloud Automation & Security

Agenda

- Writing Code
- PowerShell ISE
- Vscode
- Demos
- Q&A



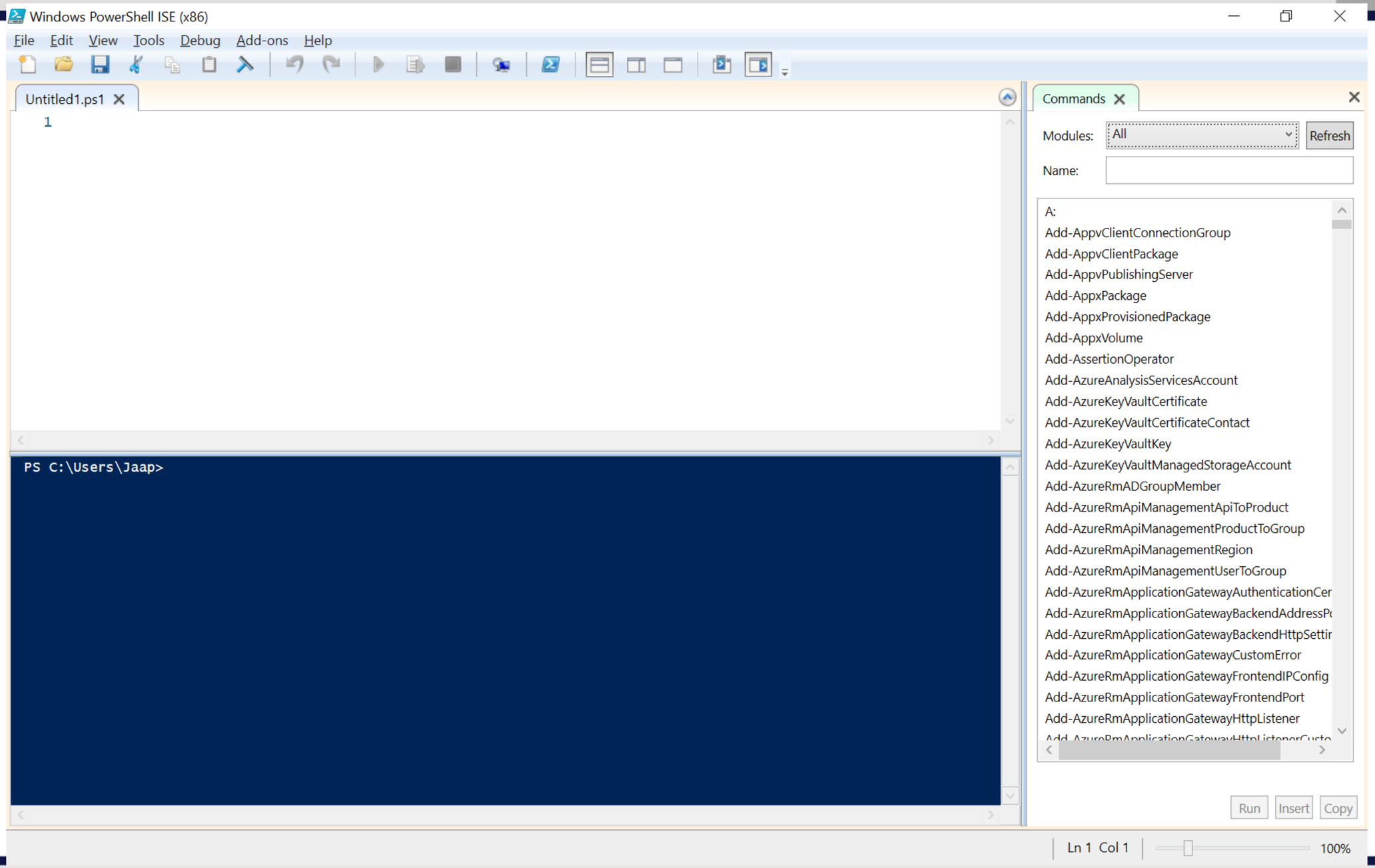
Write Code

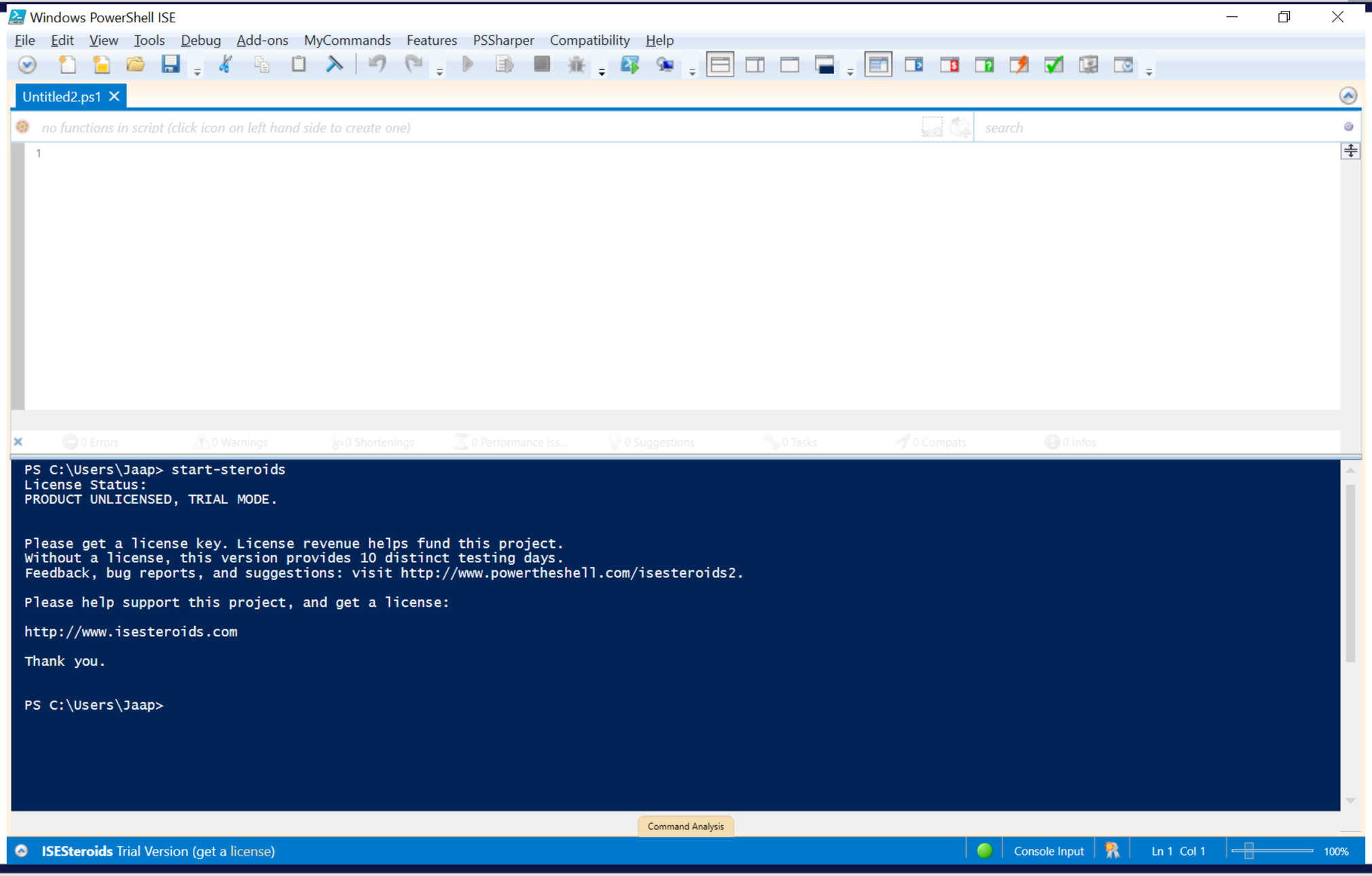
Write working code

Collaboration

Validation

Testing


Windows PowerShell ISE (x86)
File Edit View Tools Debug Add-ons Help
Untitled1.ps1
1
PS C:\Users\Jaap>
Commands
Modules: All
Refresh
Name:
A:
Add-AppvClientConnectionGroup
Add-AppvClientPackage
Add-AppvPublishingServer
Add-AppxPackage
Add-AppxProvisionedPackage
Add-AppxVolume
Add-AssertionOperator
Add-AzureAnalysisServicesAccount
Add-AzureKeyVaultCertificate
Add-AzureKeyVaultCertificateContact
Add-AzureKeyVaultKey
Add-AzureKeyVaultManagedStorageAccount
Add-AzureRmADGroupMember
Add-AzureRmApiManagementApiToProduct
Add-AzureRmApiManagementProductToGroup
Add-AzureRmApiManagementRegion
Add-AzureRmApiManagementUserToGroup
Add-AzureRmApplicationGatewayAuthenticationCer
Add-AzureRmApplicationGatewayBackendAddressP
Add-AzureRmApplicationGatewayBackendHttpSettir
Add-AzureRmApplicationGatewayCustomError
Add-AzureRmApplicationGatewayFrontendIPConfig
Add-AzureRmApplicationGatewayFrontendPort
Add-AzureRmApplicationGatewayHttpListener
Run
Insert
Copy
Ln 1 Col 1
100%


Windows PowerShell ISE
File Edit View Tools Debug Add-ons MyCommands Features PSSharper Compatibility Help
Untitled2.ps1
no functions in script (click icon on left hand side to create one)
search
1
0 Errors 0 Warnings 0 Shortenings 0 Performance Iss... 0 Suggestions 0 Tasks 0 Compats 0 Infos
PS C:\Users\Jaap> start-steroids
License Status:
PRODUCT UNLICENSED, TRIAL MODE.
Please get a license key. License revenue helps fund this project.
Without a license, this version provides 10 distinct testing days.
Feedback, bug reports, and suggestions: visit http://www.powertheshell.com/isesteroids2.
Please help support this project, and get a license:
http://www.isesteroids.com
Thank you.
PS C:\Users\Jaap>
Command Analysis
ISESteroids Trial Version (get a license)
Console Input
Ln 1 Col 1
100%

PowerShell ISE

- Windows Release Cycle
- Closed Source
- No longer Developed
- Stable

Visual Studio Code

Keyboard shortcuts for Windows

General

Ctrl+Shift+P, F1	Show Command Palette
Ctrl+P	Quick Open, Go to File...
Ctrl+Shift+N	New window/instance
Ctrl+Shift+W	Close window/instance
Ctrl+,	User Settings
Ctrl+K Ctrl+S	Keyboard Shortcuts

Basic editing

Ctrl+X	Cut line (empty selection)
Ctrl+C	Copy line (empty selection)
Alt+ ↑ / ↓	Move line up/down
Shift+Alt + ↓ / ↑	Copy line up/down
Ctrl+Shift+K	Delete line
Ctrl+Enter	Insert line below
Ctrl+Shift+Enter	Insert line above
Ctrl+Shift+\	Jump to matching bracket
Ctrl+] / [	Indent/outdent line
Home / End	Go to beginning/end of line
Ctrl+Home	Go to beginning of file
Ctrl+End	Go to end of file
Ctrl+↑ / ↓	Scroll line up/down
Alt+PgUp / PgDn	Scroll page up/down
Ctrl+Shift+[	Fold (collapse) region
Ctrl+Shift+]	Unfold (uncollapse) region
Ctrl+K Ctrl+[	Fold (collapse) all subregions
Ctrl+K Ctrl+]	Unfold (uncollapse) all subregions
Ctrl+K Ctrl+0	Fold (collapse) all regions
Ctrl+K Ctrl+J	Unfold (uncollapse) all regions
Ctrl+K Ctrl+C	Add line comment
Ctrl+K Ctrl+U	Remove line comment
Ctrl+/	Toggle line comment
Shift+Alt+A	Toggle block comment
Alt+Z	Toggle Tab moves focus

Search and replace

Ctrl+F	Find
Ctrl+H	Replace
F3 / Shift+F3	Find next/previous
Alt+Enter	Select all occurences of Find match
Ctrl+D	Add selection to next Find match
Ctrl+K Ctrl+D	Move last selection to next Find match
Alt+C / R / W	Toggle case-sensitive / regex / whole word

Multi-cursor and selection

Alt+Click	Insert cursor
Ctrl+Alt+ ↑ / ↓	Insert cursor above / below
Ctrl+U	Undo last cursor operation
Shift+Alt+I	Insert cursor at end of each line selected
Ctrl+L	Select current line
Ctrl+Shift+L	Select all occurrences of current selection
Ctrl+F2	Select all occurrences of current word
Shift+Alt+→	Expand selection
Shift+Alt+←	Shrink selection
Shift+Alt + (drag mouse)	Column (box) selection
Ctrl+Shift+Alt + (arrow key)	Column (box) selection
Ctrl+Shift+Alt +PgUp/PgDn	Column (box) selection page up/down

Rich languages editing

Ctrl+Space	Trigger suggestion
Ctrl+Shift+Space	Trigger parameter hints
Shift+Alt+F	Format document
Ctrl+K Ctrl+F	Format selection
F12	Go to Definition
Alt+F12	Peek Definition
Ctrl+K F12	Open Definition to the side
Ctrl+.	Quick Fix
Shift+F12	Show References
F2	Rename Symbol
Ctrl+K Ctrl+X	Trim trailing whitespace
Ctrl+K M	Change file language

File management

Ctrl+N	New File
Ctrl+O	Open File...
Ctrl+S	Save
Ctrl+Shift+S	Save As...
Ctrl+K S	Save All
Ctrl+F4	Close
Ctrl+K Ctrl+W	Close All
Ctrl+Shift+T	Reopen closed editor
Ctrl+K Enter	Keep preview mode editor open
Ctrl+Tab	Open next
Ctrl+Shift+Tab	Open previous
Ctrl+K P	Copy path of active file
Ctrl+K R	Reveal active file in Explorer
Ctrl+K O	Show active file in new window/instance

Display

F11	Toggle full screen
Shift+Alt+0	Toggle editor layout (horizontal/vertical)
Ctrl+ = / -	Zoom in/out
Ctrl+B	Toggle Sidebar visibility
Ctrl+Shift+E	Show Explorer / Toggle focus
Ctrl+Shift+F	Show Search
Ctrl+Shift+G	Show Source Control
Ctrl+Shift+D	Show Debug
Ctrl+Shift+X	Show Extensions
Ctrl+Shift+H	Replace in files
Ctrl+Shift+J	Toggle Search details
Ctrl+Shift+U	Show Output panel
Ctrl+Shift+V	Open Markdown preview
Ctrl+K V	Open Markdown preview to the side
Ctrl+K Z	Zen Mode (Esc Esc to exit)

Debug

F9	Toggle breakpoint
F5	Start/Continue
Shift+F5	Stop
F11 / Shift+F11	Step into/out

General

Ctrl+Shift+P, F1	Show Command Palette
Ctrl+P	Quick Open, Go to File...
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Ctrl+Shift+W	Close window/instance
Ctrl+,	User Settings
Ctrl+K Ctrl+S	Keyboard Shortcuts

VSCode

- Active Development
- Frequent releases
- Extensible
- Cross-platform

Demo

Digging into Vscode and ISE

Demo Summary

- Configuring VScode
- Default Language
- Working with Git
- Reviewing a Pull Request
- Make it Awesome

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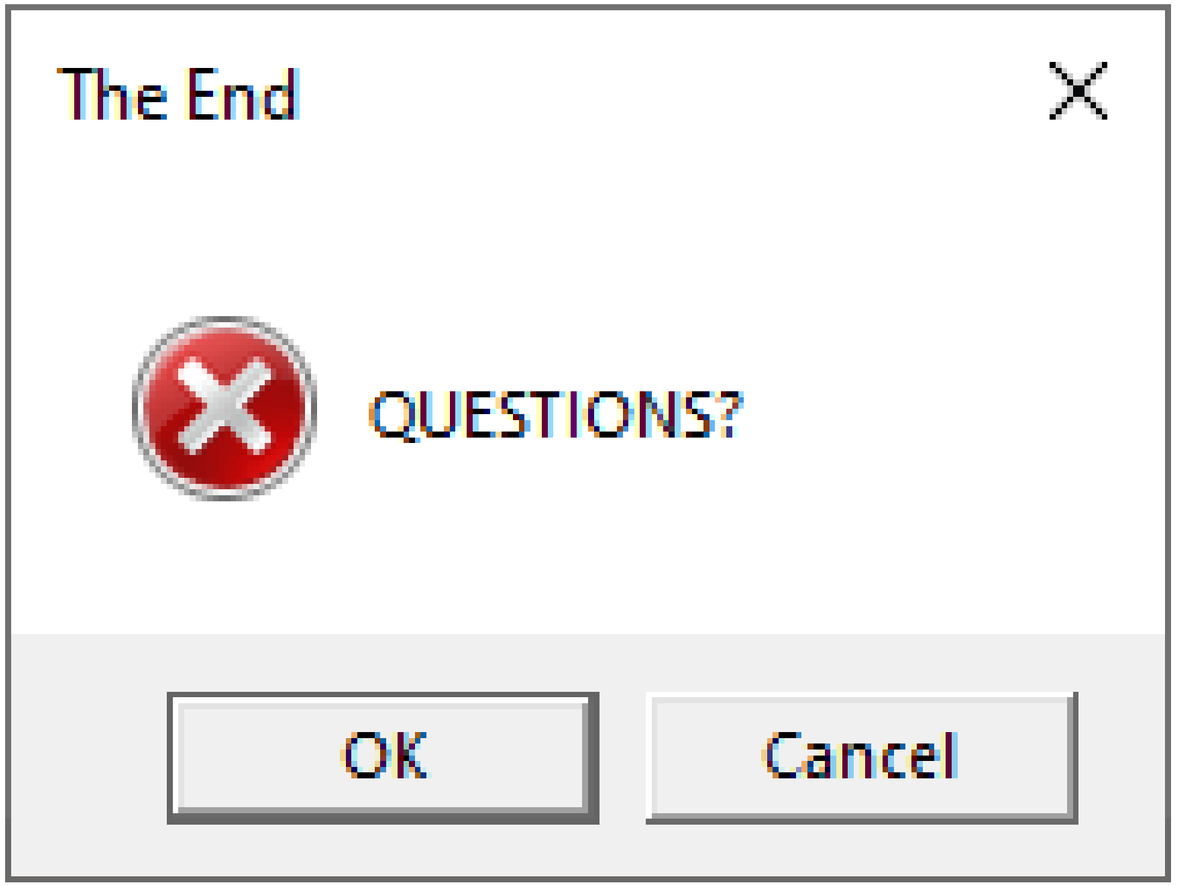

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