Automate it with Azure Functions





jaapbrasser.com/about

- Technical Marketing Engineer at Rubrik
- PowerShell Conference EU/Asia
- Dutch PowerShell User Group
- Speaker / Blogger / Tech Enthusiast
- PowerShell Gallery
- TechNet / MSTechCommunity





Agenda

1

What are Azure Functions

2

How do they work?

3

What can we do with PowerShell

4

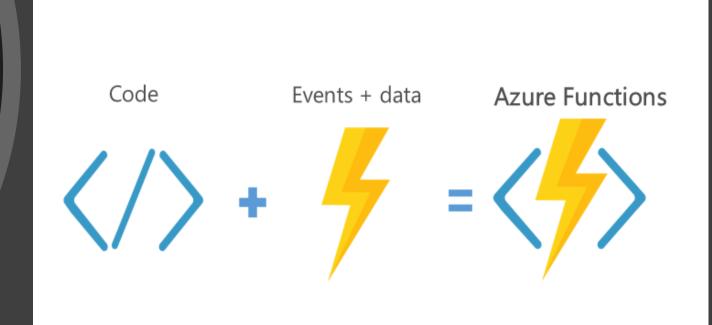
Demos

5

Questions



What are Azure Functions



Azure Web Apps



Advantages of Azure Functions

- Pay for what you use
- No Infrastructure to manage
- No maintenance of servers
- Can be placed in existing Web App subscriptions
- Simplify code writing

What problem are we solving?

- Using our scripting skills in the cloud
- Re-using existing code / scripts
- Faster deployment
- Less maintenance



Exploring Azure Functions

- Triggers available
- Scenarios available
- Experimental flag
- How to create Azure Function
- Delete Azure Function



Experimental Language Support: Enabled

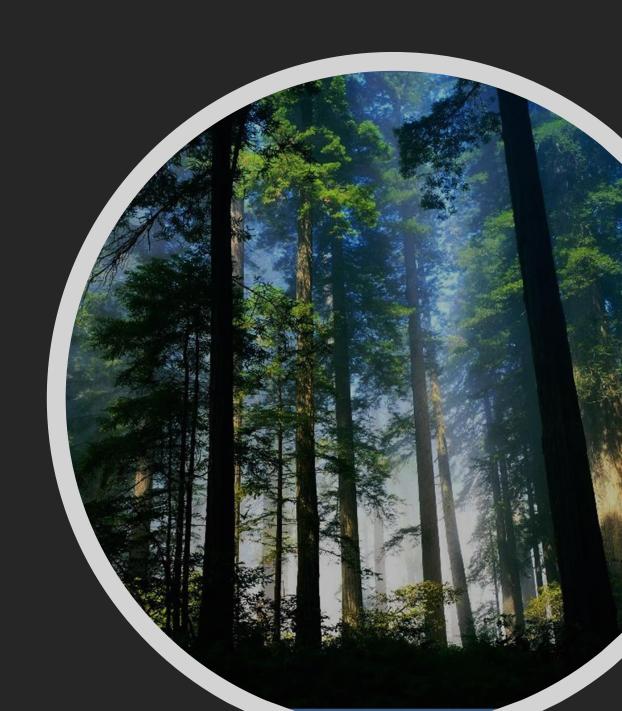
PowerShell language support is still experimental





Create timed function

- Create PowerShell function
- Used cron notation



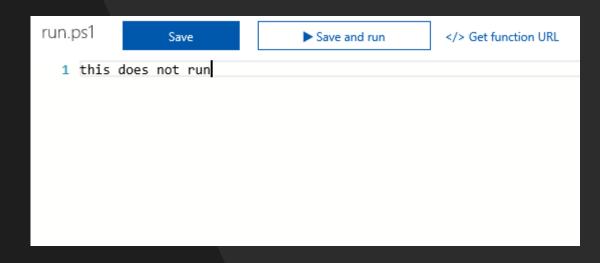


Azure PowerShell Function

- Which PowerShell version
- What variables are defined
- Saw the variables & files
- Reconfigured function.json
- Used Invoke-RestMethod to run



Error handling





Invocation log 2 Refresh	
Function	Status
HttpTriggerPowerShell2 (Method: POST, Uri:)	×
HttpTriggerPowerShell2 (Method: POST, Uri:)	×
HttpTriggerPowerShell2 (Method: POST, Uri:)	×



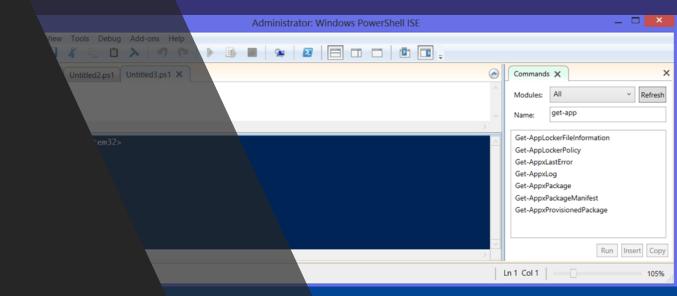
Azure Function Errors

- Had our function fail
- Looked at different error logs
- Fixed the code based on output



VS Code

Which tools?



PowerShel



Writing Azure Functions

- Different tools
 - ISESteroids
 - VsCode
 - Visual Studio
 - Online Editor
- Write Unit tests for your scripts



PowerShell best practices

- Develop code in proper tools
- Use source control
- Run script analyzer for coding practices
- Keep your code simple
- Write tests

Summary

- Use existing PowerShell skills
- Develop serverless code
- Interact with other services
- Free tier
- functions.azure.com
- Haveibeenpwned.com

Questions?

