

Using PowerShell with REST API's

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And what is a REST API?

Intro

- Senior Systems Engineer for an Insurance Company 💰
- twitter.com/jwmoss 👁️
- github.com/jwmoss 💻
- Using Powershell for 3 years 💙
- Live outside Raleigh, North Carolina 🚜
- Published in a book about a tweet I posted in 2011 about Steve Jobs 🧐



What is a REST API?

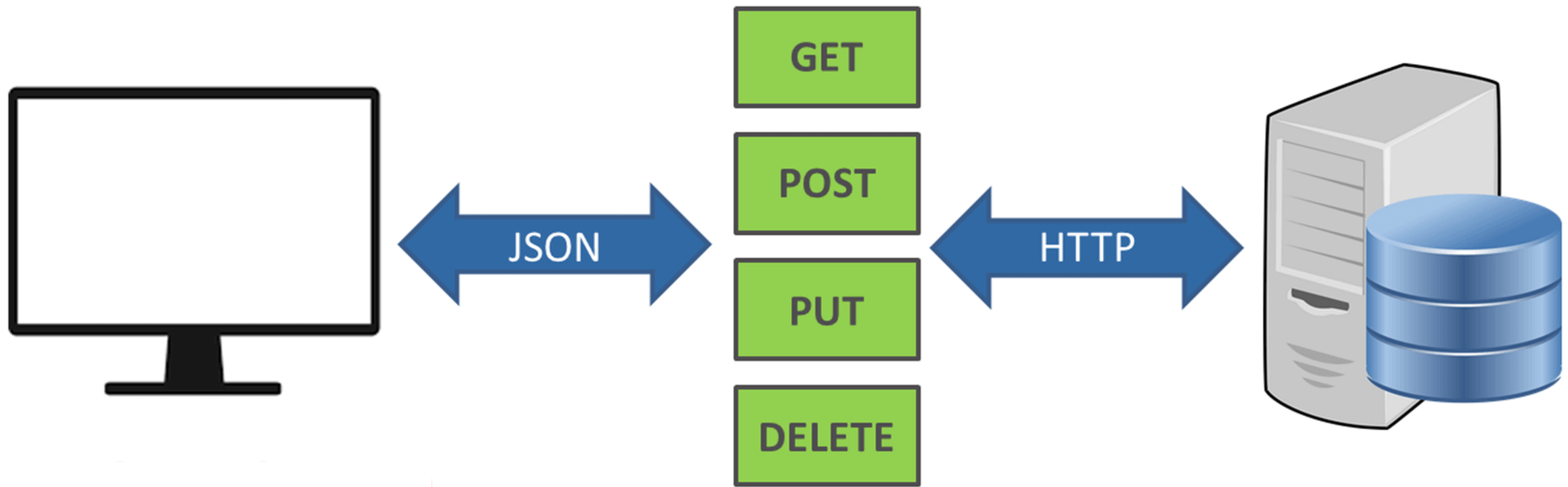
- RESTful system: client-server architecture, stateless, cacheability, layered, uniform interface
- Application Restful Interface (API)
 - A set of “rules” that allow “programs” to communicate between each other.
 - Want to get something from a REST API? You’re sending a request.
 - Want to receive something from a REST API? You’re receiving a response.
- What are some Web Services that are exposed through RESTful API’s?
 - GitHub
 - Reddit
 - Twitter
 - Tesla
 - Amazon



New-Object
-ComObject
InternetExplorer.Application



Invoke-restmethod
or
Invoke-webrequest



Client sends a **request**

HTTP methods

Server sends a **response**

CRUD



Create



POST



Read



GET



Update



PUT



Delete



DELETE



edureka!
HTTP
Methods

whendoitumbackintoapumpkin

Yes, get on with it!

Links

- Mark Kraus's PowerShell Core Web Cmdlets in Depth - <https://get-powershellblog.blogspot.com/2017/11/powershell-core-web-cmdlets-in-depth.html>
- Microsoft Docs Invoke-Webrequest <https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.utility/invoke-webrequest?view=powershell-7>
- Microsoft Docs Invoke-Restmethod <https://docs.microsoft.com/en-us/powershell/module/microsoft.powershell.utility/invoke-restmethod?view=powershell-7>
- Awesome-PowerShell Git Repo with API Wrapper examples <https://github.com/janikvonrotz/awesome-powershell#api-wrapper>
- You only have a cURL example? <https://github.com/ThePoShWolf/Curl2PS>

PowerShell + Rest API 201

- AutoRest - <https://devblogs.microsoft.com/powershell/cmdlets-via-autorest/>
- JWT vs OAuth vs API Keys, or different authentication methods
- Using PowerShell with JSON

Questions?