# Getting Data from the Internet

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# Module Overview

**Web requests and REST methods**

**Invoke-WebRequest**

**Invoke-RestMethod**

# Globomantics

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Globomantics developer

# Exercise Files

# Overview

# Invoke-WebRequest

Sends a HTTP/S request to a web service

Result is returned as a PowerShell object

Interacting with the web from a command line

Can create and maintain sessions

# Common HTTP Methods

GET

POST

DELETE

PUT

# REST

**REpresentational State Transfer**

**Uses the HTTP protocol**
- REST is not a protocol

**REST server provides access to resources**

**Resources are identified by a Uniform Resource Identifier (URI)**

# Invoke-RestMethod

**Sends a HTTP/S request to a RESTful web service**

**PowerShell formats the response based on the data type**

**Dan**

$URI = https://api.globomantics.com
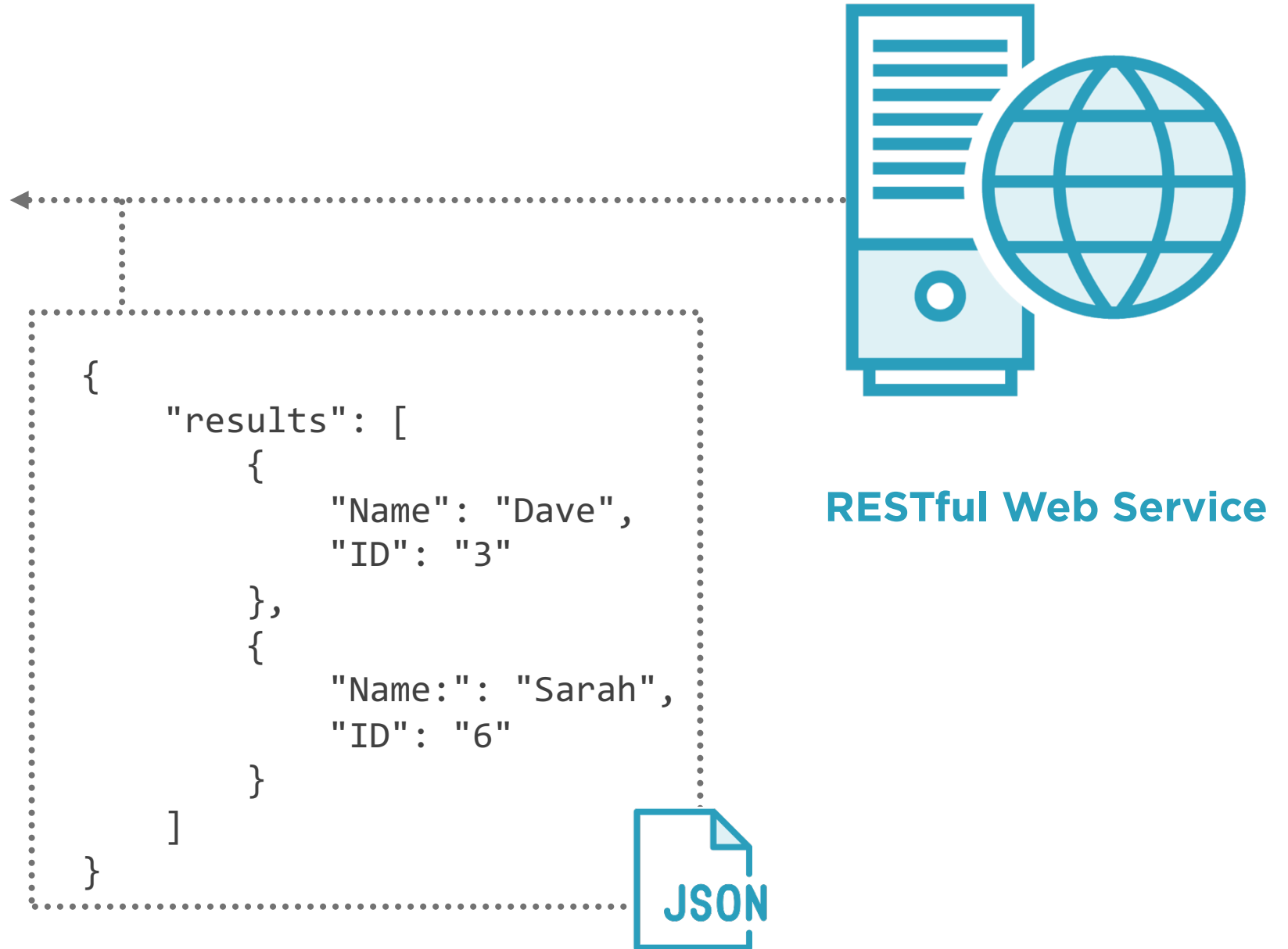Invoke-RestMethod Get –URI $URI/Users

**RESTful Web Service**

**Dan**

**RESTful Web Service**

```
{
    "results": [
        {
            "Name": "Dave",
            "ID": "3"
        },
        {
            "Name:": "Sarah",
            "ID": "6"
        }
    ]
}
```

JSON

Dan

Invoke-RestMethod –Method Delete
–URI $URI/Users/3

RESTful Web Service

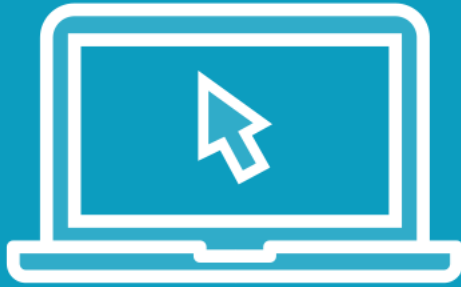# Which Command Should I Use?

## Invoke-RestMethod

**If you know you're working with a RESTful endpoint, start here**

## Invoke-WebRequest

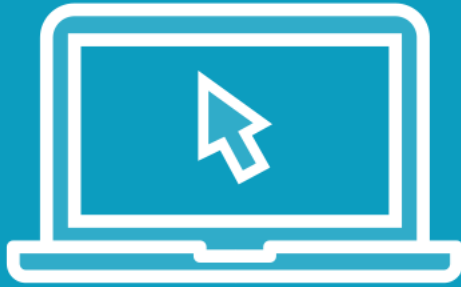**Multi-use tool to deal with the web. May require effort to massage the response**

# Demo

**Working with Invoke-WebRequest**

# Demo

**Working with Invoke-RestMethod**

# Summary

You don't always need custom PowerShell cmdlets

PowerShell has been built with the web in mind

Use the best command for the job

Explore, experiment, and tell me how you go!

@mattallford

Thank you!