DATA DECISIONS WITH POWERSHELL

JEFFERY HICKS

@JEFFHICKS



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DESIGN PRINCIPLES

THIS ISN'T ABOUT
TECHNIQUES OR CODE

THE ISSUE

- You have a PowerShell script or tool
- It might consume data from an external source
 - Maybe tou get to determine the external source
- It might need to persist data to some type of storage
- What are the right decisions?
- How do you make them?



OPTIONS

- Plain text
- CSV
- XML
- JSON
- Database

TEXT

PRO

- Easy to create
- Easy to transport
- Easy to secure
- Works well cross-platform
- Embraces the PowerShell paradigm

- Text parsing might be required
- May not scale well
- Encoding may be an issue
- Counters the PowerShell paradigm

CSV

PRO

- Easy to implement
- Delimiter options
- Native application support

- Type not preserved
- Not good for hierarchical needs
- May not scale well
- Hard to update
- No native search options

XML

PRO

- Relatively easy to implement
- Widely accepted format
- cliXML great for PowerShell
- Capture rich data
- Searchable

- Fragile
- May require special skills
- Larger file sizes
- More difficult to update

JSON

PRO

- Widely adopted
- Potentially smaller file sizes
- Text based

- May not preserve type
- Fragile
- Difficult to update

DATABASE

PRO

- Best performance for large data
- Leverage existing infrastructure
- Easiest to update
- Most professional

- Dependencies
- Requires special development skills
- Potential cross-platform challenges
- Larger footprint

DECISION POINTS

How much data needs to be managed?

Who will be using your tool?

What are their expectations?

Reading vs Writing

How will persisted data be consumed?





MY STORY

- Creating objects from persistent data
- Wanted to be as simple as possible
- Need to read, write and modify existing data

BEST PRACTICES

- All about the object
 - Don't hard code file choices
 - Let PowerShell do its thing
- Performance matters
- Consider your target audience or platform
- Don't be afraid to change course
- Databases best for long term, persistent storage that needs updating

Anguestions Answers

THANK YOU



https://jdhitsolutions.com/blog



jhicks@jdhitsolutions.com



@JeffHicks



http://plus.google.com/+JefferyHicks