Comparing 2019 book with proposed next book

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| **2019 Book** | **Proposed 7.1 book** | **Proposed % new**  **Content** |
| Establishing a PowerShell Administrative Environment | **Installing and Configuring PowerShell 7**  Covering installation of pwsh 7, VS Code, and Core PS Gallery Modules | 90% |
|  | **Managing PowerShell in the enterprise**  Creating a repo  Code signing using real certs?  Setup remoting over SSH  ADD Linux install and ssh setup?  Using GitHub? | 90% |
|  | **Compatibility with Windows PowerShell**  Covers why the issue, and the underlying compat process  Looks at what you CAN’t do - covers alternatives to Windows Update, IISIS  Cover Invoke-DSCResource | 100% |
| Managing Windows Networking | **Managing Windows Networking**  Drop new ways to do old things  Add NIC Teaming | 10-15 |
|  | **Using .NET** | 100 |
|  | **Using COM** | 100 |
| Managing Windows Active Directory | **Managing AD**  Much as before - adding new pwsh 7 features | 20 |
| Managing Windows Storage | **Managing Storage**  Much as before  Add Storage Spaces | 20 |
| Managing Shared Data | **Managing Shared Data**  Drop dfs  Create a scale out file server  Add Storage Spaces | 20 |
| ~~Managing Windows Update~~ | ***DO NOT CARRY FORWARD*** | 0 |
| Managing Printing | **Managing Printing**  Update with latest drivers | 5 |
| Introducing Containers | **Exploring Windows Containers**  As before but maybe a richer set of use cases in the examples | 5 |
| ~~Managing Windows Internet Information Server~~ | ***DO NOT CARRY FORWARD*** | 0 |
| ~~Managing Desired State Configuration~~ | ***DO NOT CARRY FORWARD*** | 0 |
| Managing Hyper-V | **Managing Hyper-V** As before  Add clustering two servers and VM failover | 20 |
| Managing Azure | **Managing Azure Infrastructure**  Add more Azure content =- not sure what - azure functions? Azure DevOps? | 15 |
| Managing Performance and Usage | **Managing Performance and Usage**  Much As before | 10 |
|  | Debugging in PowerShell | 100 |
| Troubleshooting Windows Server | **Troubleshooting Windows**  Much as before | 10 |
|  | **Managing WMI**  Exploring namespaces, classes, class instances  Using Methods  Using WMI eventing | 100 |

**Initial proposed outline for New Book**

1. Installing and Configuring PowerShell 7
   1. Install PowerShell 7
   2. Exploring PowerShell 7 Installation
   3. Exploring PowerShell 7 new features
   4. Building PowerShell 7 profile files
   5. Install VS Code
   6. Install Cascadia Code
2. Managing PowerShell in the enterprise
   1. Exploring Modules in PowerShell 7
   2. Using PS Gallery Modules
   3. Creating a local repo
   4. Code signing using self-signed certs
   5. Installing CredSSP
   6. Setup remoting over SSH
   7. ADD Linux install and ssh setup?
   8. Using GitHub
   9. Using Secrets Management Module
3. Compatibility with Windows PowerShell
   1. Exploring Windows Compatibility
   2. Exploring limitations
   3. Importing Display XML
   4. Exploring alternatives to non-Supported Windows PowerShell Features
   5. Cover Invoke-DSC resource
4. Exploring .NET
   1. Understanding .NET
   2. Exploring .NET Assemblies
   3. Examining .NET Classes
   4. Leveraging .NET Methods
5. Networking
   1. Configure IP Addressing
   2. Installing DHCP
   3. Configure Scopes and Option s
   4. Implanting DHCP Fail Over/Load Balancing
   5. Installing DNS
   6. Managing DNS zones and Resource records
6. Managing AD
   1. Installing Forest/Domain
   2. Installing Child Domain
   3. Creating and Managing AD Users, groups and computers
   4. Creating a Group Policy Object
   5. Reporting on AD Users/Groups/Computers
   6. Discovering Logon Events in Event Log
   7. Implement JEA
7. Managing Storage
   1. Managing Physical Disks and Volumes
   2. Managing NTFS Permissions
   3. Manage Storage Replica
   4. Implementing FSRM Quotas
   5. Implementing FSRM Reporting
   6. Creating a scale out file server
   7. Deploying Storage Spaces
8. Managing Printing
   1. Installing and sharing Printers
   2. Changing Spooler directory
   3. Changing printer drivers
   4. Printing a test page
   5. Managing Printer security ?
   6. Creating a printer pool
9. Managing Hyper-V
   1. As before but maybe a richer set of use cases in the examples
   2. Installing Hyper-V Server
   3. Creating a VM
   4. Using PowerShell Direct
   5. Configuring VM Hardware
   6. Configuring VM Networking
   7. Implementing Nested Virtualisation
   8. Managing VM state
   9. Managing storage Movement
   10. Configure VM replication
   11. Manage VM Checkpoints
   12. Clustering Hyper-V servers
   13. HCI??
10. Managing Azure
    1. Using Powershell with Azxure
    2. Create core Azure Resources
    3. Exploring Storage Account
    4. Creating Azure SMB Share
    5. Creating an Azure web site
    6. Creating an Azure VM
    7. Creaing a p2s VPN ?
11. Debbugging and Troubleshooting Windows Server
    1. As before
    2. Using PS Script Analyser
    3. Exploring PowerShell debugging
12. Managing with WMI
    1. Exploring WMI architecture
    2. Exploring WMI Name Spaces
    3. Exploring WMI Classes
    4. Obtaining WMI Class instances
    5. Using WMI Methods
    6. Using WMI Events
    7. Implementing Permanent WMI eventing
    8. Detecting USB Insertion