

PowerShell Desired State Configuration (DSC) Custom Resource Walkthrough



1 Design your Resource

- Shared or private
- Present or absent state
- Module with one or more resources

2 Decompose

- Design **smallest** logical steps
- Design for **re-use**
- Determine useful PowerShell commands

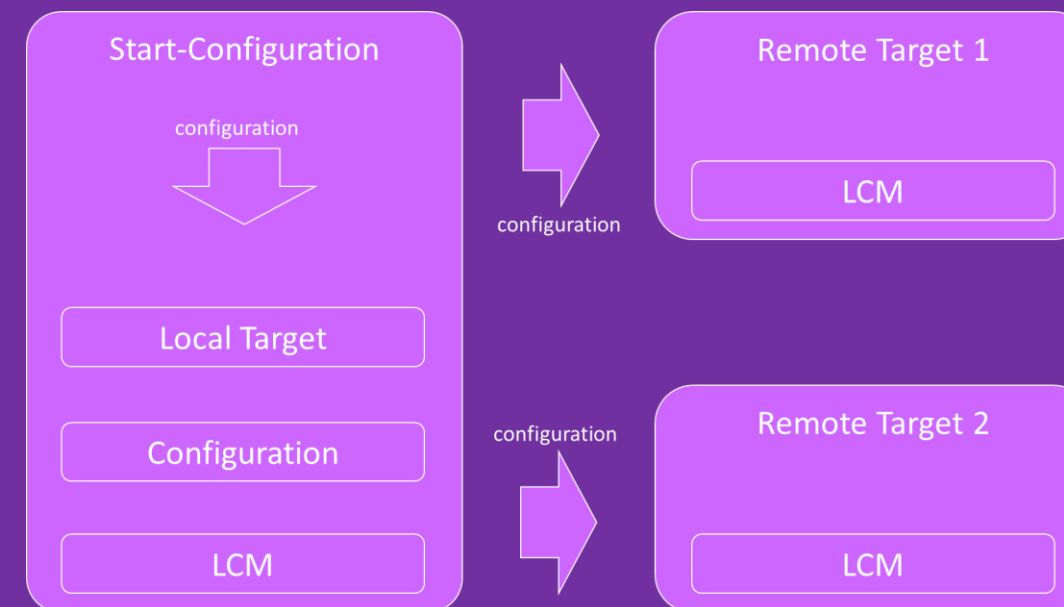
9 Troubleshooting

- Use verbose mode for more details
- Review DSC command results
- Review Event Viewer – operational log
- Review Event Viewer – DSC ETW log
- Bing! Someone else probably has a fix!

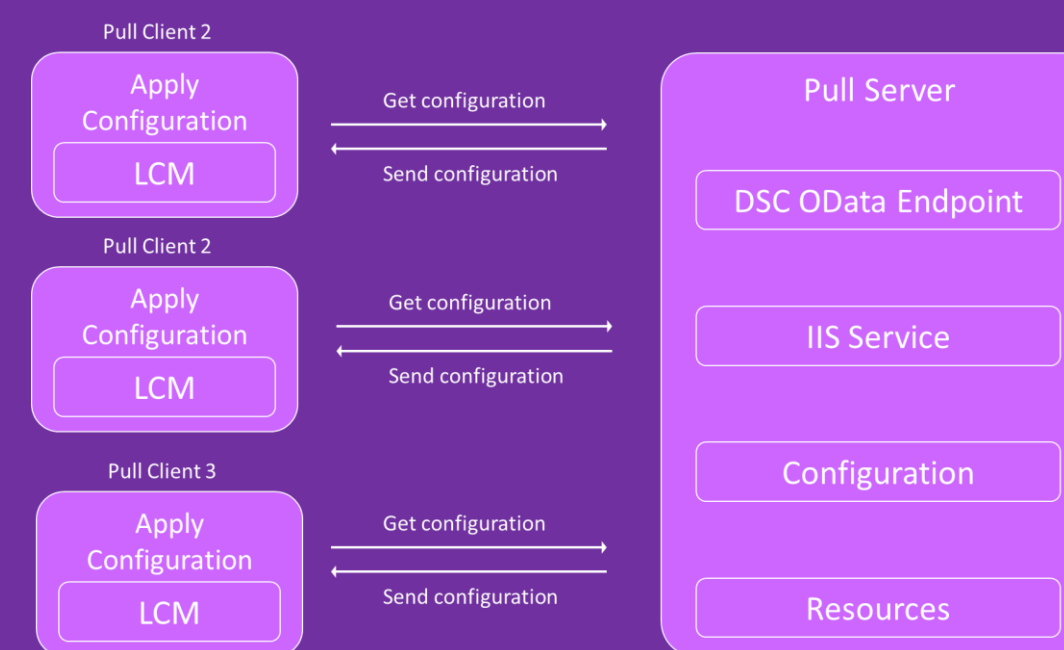
8 Manual DSC Processing

- Force an update
- Invoke-CimMethod

Push Server



Pull Server



3 Generate Outline

- Create resource schema
- Use xDscResourceDesigner to generate folder and file structure

4 Develop resource

- Get-TargetResource
- Set-TargetResource
- Test-TargetResource

7 Deploy resource

- Zip module
- Create checksum
- Copy resource to pull server

6 Create configuration

- Configuration {}
- Node specifies target
- Resource states

5 Unit Test Resources

- Each resource should have a separate unit test