Deploying a DSC Configuration
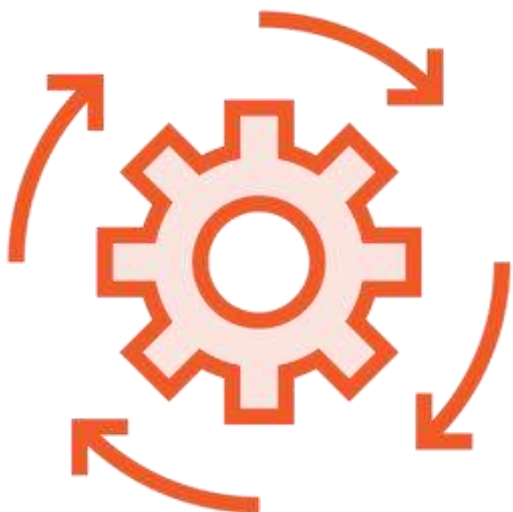
Jeff Hicks

Author/Teacher
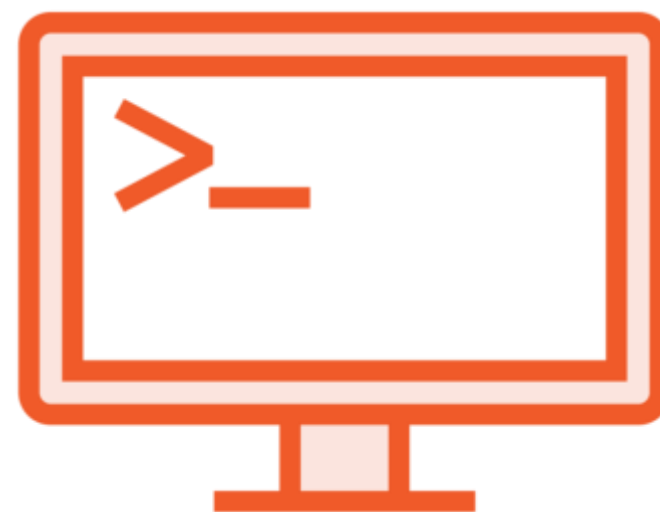
@jeffhicks | https://jdhitsolutions.com/blog

Preparing the Node

DSC Resources must be pre-installed

Use whatever process you want

Install-Module

Don't Forget

You need admin credentials

PowerShell Remoting must be enabled

- Test-WSMan

- New-CimSession

Install the correct resource version

- Get-Module

- Get-DSCResource

Consider including a backup as part of your deployment process

```
PS C:\DSCConfigs> Start-DSCConfiguration
```

Deploying a Configuration

Uses the current location unless you use –Path
Processes all MOF files

```
PS C:\DSCConfigs> Start-DSCConfiguration –computername SRV1
```

Deploying a Configuration

Uses the current location unless you use –Path
Processes all MOF files
Or specify by computer name

```
PS C:\DSCConfigs> Start-DSCConfiguration –computername SRV1
```

Deploying a Configuration

Default runs a background job
Use Stop-DSCConfiguration to kill a deployment job

```
PS C:\DSCConfigs> Start-DSCConfiguration –computername SRV1 –Wait
-Verbose
```

Deploying a Configuration

Default runs a background job
Use Stop-DSCConfiguration to kill a deployment job
Use –Wait and –Verbose to monitor the process

```
PS C:\DSCConfigs> Start-DSCConfiguration –computername SRV1 -wait
-Verbose -UseExisting
```

Deploying a Configuration

-UseExisting will re-apply the *current* configuration

```
PS C:\> Restore-DscConfiguration –cimsession SRV1
```

Deploying a Configuration

Use Restore-DSCConfiguration to re-apply the *previous* configuration
Runs as a job
Read the help: CimSession vs Computername

```
PS C:\> Get-DSCConfigurationStatus -cimsession SRV1
```

Status and Testing

Get the current status

```
PS C:\DSCConfigs> Get-DscConfigurationStatus -CimSession srv1

Status      StartDate            Type      Mode  RebootRequested      NumberOfResources      PSComput
                                                                                             erName

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Success     10/4/2021 8:13:55 AM Initial   PUSH  False                3                      srv1
```

PS C:\> Get-DSCConfigurationStatus –cimsession SRV1

Status and Testing

Get the current status

```
PS C:\> Test-DSCConfiguration -computername SRV1
```

Status and Testing

Test the current configuration

```
PS C:\> Test-DSCConfiguration -computername SRV1
True
```

Status and Testing

Test the current configuration
Boolean result

```
PS C:\> Test-DSCConfiguration –computername SRV1 -detailed
```

Status and Testing

**Test the current configuration
Or get details**

```
PS C:\DSCConfigs> Test-DSCConfiguration -ComputerName srv1 -Detailed | format-list


InDesiredState             : True
ResourcesInDesiredState    : {[File]Demo, [File]Readme, [WindowsFeature]NoPS2}
ResourcesNotInDesiredState :
ReturnValue                : 0
PSComputerName             : srv1
```

```
PS C:\> Test-DSCConfiguration -computername SRV1 -detailed
```

Status and Testing

**Test the current configuration
Or get details**

Demo

Deploying a Configuration