



PowerShell Conference Europe

Next Up:

Shaun Lawrie

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PowerShell Conference Europe

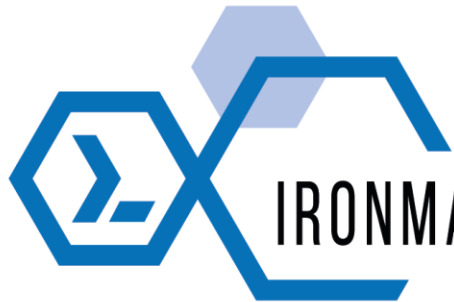
PowerShell Terminal UI Design with Spectre Console

Shaun Lawrie

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IRONMAN SOFTWARE

KNOWLEDGE
FACTORY



SynEdgy



PSCONF EU SPEAKER

Shaun Lawrie



Studied to be a musician...
Ended up working in Performance Engineering, Testing, Development, Site Reliability and more with some of the largest web platforms in New Zealand over the last 10 years.



Platform Engineering Lead @ PartsTrader



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Spectre Console

- A .NET library that makes it easier to create beautiful console applications.



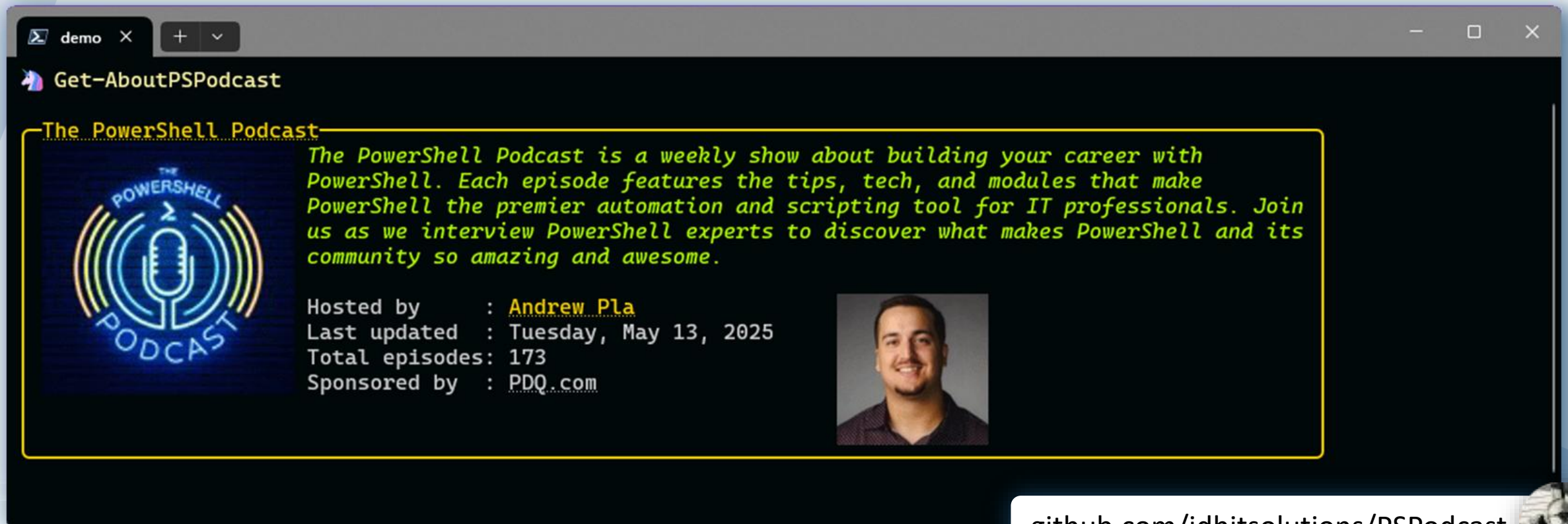
spectreconsole.net



github.com/patriksvensson

Spectre Console

■ Image Outputs:



github.com/jdhitsolutions/PSPodcast

Spectre Console

■ Interactive Prompts:

HELLO XDR SPECTRE!

IncidentId	DisplayName	Status	Determination	CustomTags	Created	AssignedTo	Severity	Alerts (Status Created Title/Link)		
56	PowerShell in use	active	unknown	{}	2/6/2025 5:17:08 PM		informational	new	2/6/2025 5:17:07 PM	PowerShell in use
55	PowerShell in use on one endpoint	active	unknown	{}	12/13/2024 5:43:19 AM		informational	new	12/13/2024 5:43:18 AM	PowerShell in use
54	PowerShell in use on one endpoint	active	unknown	{}	11/10/2024 2:06:10 PM		informational	new	11/10/2024 2:06:10 PM	PowerShell in use

Press **Ctrl+C** to exit.
Choose an action:

Refresh
> Assign to me
Investigate
Clear assignment

github.com/sassdawe/PwshXDRSpectre



Spectre Console

■ Visual Widgets:

```
Pester Run
  ✗ D:\PesterExplorer\tests\Help.tests.ps1
  ✗ D:\PesterExplorer\tests\Manifest.tests.ps1
    ✗ Module manifest
      ✗ Validation
        ✗ Has a valid manifest
        ✗ Has a valid name in the manifest
        ✗ Has a valid root module
        ✗ Has a valid version in the manifest
        ✗ Has a valid description
        ✗ Has a valid author
        ✗ Has a valid guid
        ✗ Has a valid copyright
        ✗ Has a valid version in the changelog
        ✗ Changelog and manifest versions are the same
      ⌚ Git tagging
        ✗ Is tagged with a valid version
        ✗ Matches manifest version
    ✓ D:\PesterExplorer\tests\Meta.tests.ps1
      ✓ Text files formatting
        ✓ File encoding
          ✓ No text file uses Unicode/UTF-16 encoding
        ✓ Indentations
          ✓ No text file use tabs for indentations
```

github.com/HeyItsGilbert/PesterExplorer



Spectre Console

■ Complex Layouts:

Pester Explorer - 05/24/2025 15:34:18

Run: ✗ Run

List

```
D:\PesterExplorer\tests\Help.tests.ps1
D:\PesterExplorer\tests\Manifest.tests.ps1
D:\PesterExplorer\tests\Meta.tests.ps1
```

Preview

Results

✗ D:\PesterExplorer\tests\Help.tests.ps1

Errors

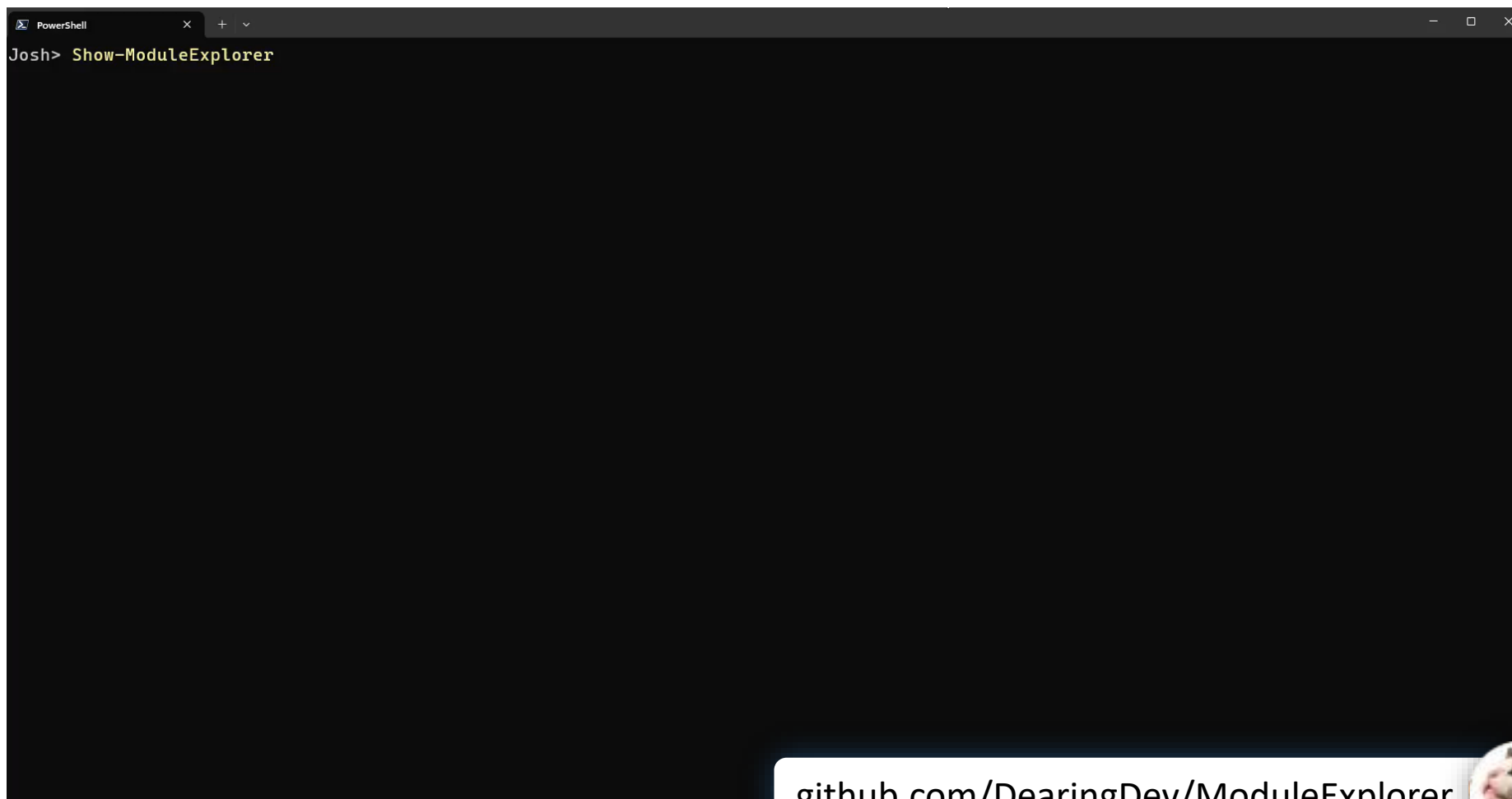
```
ParameterBindingValidationException: Cannot validate argument on parameter 'Path'. The argument is
null or empty, and then try the command again.
    ValidationMetadataException: The argument is null or empty. Provide an argument that is not...
        at void Validate(object arguments, EngineIntrinsics engineIntrinsics)
        at bool BindParameter(CommandParameterInternal parameter, CompiledCommandParameter
        at void CheckActionPreference(FunctionContext funcContext, Exception exception)
        at int Run(InterpretedFrame frame)
        at int Run(InterpretedFrame frame)
        at int Run(InterpretedFrame frame)
        at void Run(InterpretedFrame frame)
        at void RunVoid1<T0>(T0 arg0)
        at void RunClause(Action<FunctionContext> clause, object dollarUnderbar, object inputToProcess)
```

github.com/HeyItsGilbert/PesterExplorer

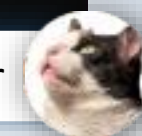


Spectre Console

- Interactive TUIs:



github.com/DearingDev/ModuleExplorer



Spectre Console in Pwsh

```
Dev X + v
C:/Dev
Add-Type -Path "$packagesDir\Spectre.Console.dll"
> $spectrePrompt = [Spectre.Console.SelectionPrompt[string]]::new()
> $spectrePrompt.Title = "What's your [green]favorite fruit[/]?"
> $spectrePrompt.PageSize = 10
> $spectrePrompt.MoreChoicesText = "[grey](Move up and down to reveal more fruits)[/]"
> $spectrePrompt = [Spectre.Console.SelectionPromptExtensions]::AddChoices($spectrePrompt, [string[]]@(
>     "Apple", "Apricot", "Avocado",
>     "Banana", "Blackcurrant", "Blueberry",
>     "Cherry", "Cloudberry", "Cocunut"
> ))
> $cancellationTokenSource = [System.Threading.CancellationTokenSource]::new()
> $fruit = $null
> try {
>     $task = $spectrePrompt.ShowAsync([Spectre.Console.AnsiConsole]::Console, $cancellationTokenSource.Token)
>     while (-not $task.AsyncWaitHandle.WaitOne(200)) { }
>     $fruit = $task.GetAwaiter().GetResult()
> } finally {
>     $cancellationTokenSource.Cancel()
>     $task.Dispose()
> }
>
> Write-Host "I agree. $fruit is tasty!"
What's your favorite fruit?
> Apple
Apricot
Avocado
Banana
Blackcurrant
Blueberry
Cherry
Cloudberry
Cocunut
```



Spectre Console in Pwsh

```
Dev X + v
C:/Dev
Import-Module "PwshSpectreConsole"
> $fruit = Read-SpectreSelection -Title "What's your [green]favorite fruit[/]?" -PageSize 10 -Choices @(
>     "Apple", "Apricot", "Avocado",
>     "Banana", "Blackcurrant", "Blueberry",
>     "Cherry", "Cloudberry", "Cocunut"
> )
> Write-Host "I agree. $fruit is tasty!"
What's your favorite fruit?
> Apple
Apricot
Avocado
Banana
Blackcurrant
Blueberry
Cherry
Cloudberry
Cocunut
```



Spectre Console in Pwsh

- Goals for PwshSpectreConsole
 - Quick access to all Spectre Console functionality
 - Extensive examples and help



Spectre Console in Pwsh

- Quick access to all Spectre Console functionality



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PwshSpectreConsole 2.3.0

Minimum PowerShell version
7.0

Installation Options

Install Module

Install PSResource

Azure Automation

Manual Download

Copy and Paste the following command to install this package using PowerShellGet [More Info](#)

```
PS> Install-Module -Name PwshSpectreConsole -RequiredVersion 2.3.0
```



Spectre Console in Pwsh

- Extensive examples and help at pwshspectreconsole.com



Demos

We love Demos!



Q&A

15 minutes

