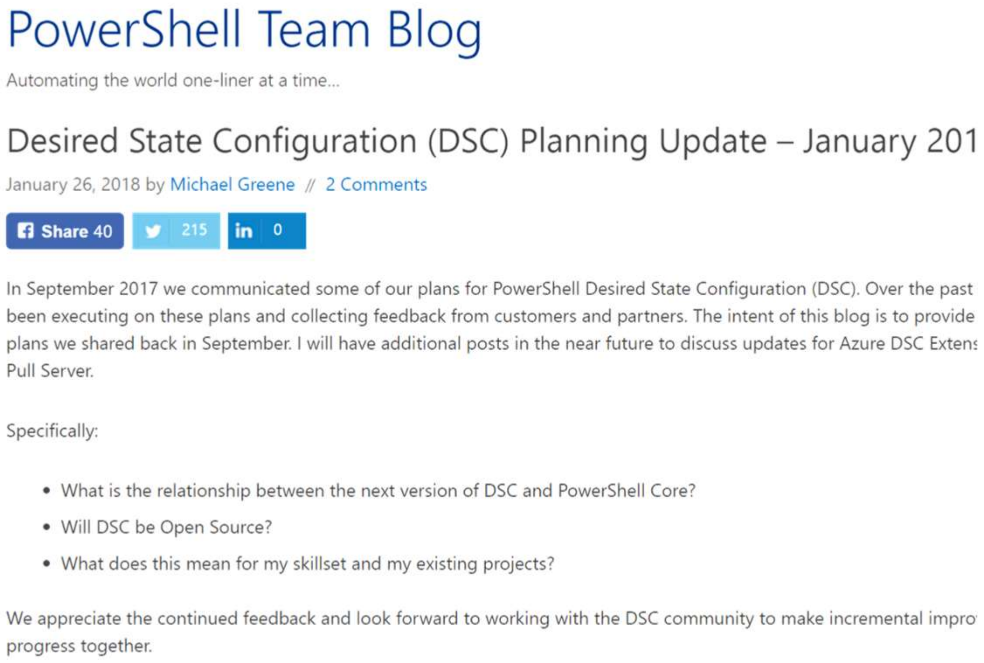
Manage servers using configuration as code

Michael Greene (@migreene)

LCM

- Blog post on January 26 laying out plans was very well received
- Purposefully saying “LCM” instead of “DSC Core”
- Current Telemetry tells us Azure integration is strategic path forward



PowerShell Team Blog

Automating the world one-liner at a time...

Desired State Configuration (DSC) Planning Update – January 201

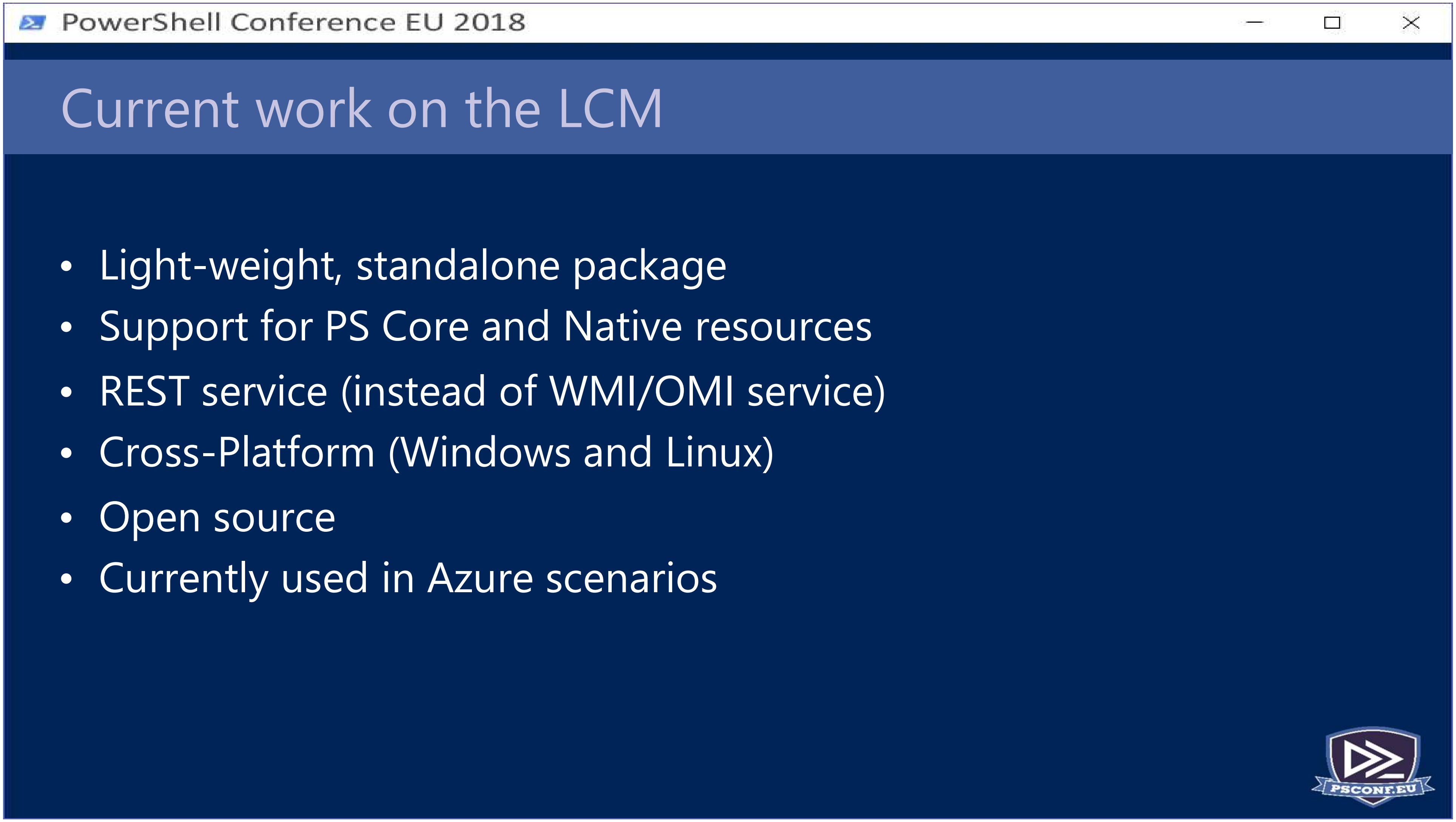
January 26, 2018 by Michael Greene // 2 Comments

In September 2017 we communicated some of our plans for PowerShell Desired State Configuration (DSC). Over the past been executing on these plans and collecting feedback from customers and partners. The intent of this blog is to provide plans we shared back in September. I will have additional posts in the near future to discuss updates for Azure DSC Extens Pull Server.

Specifically:

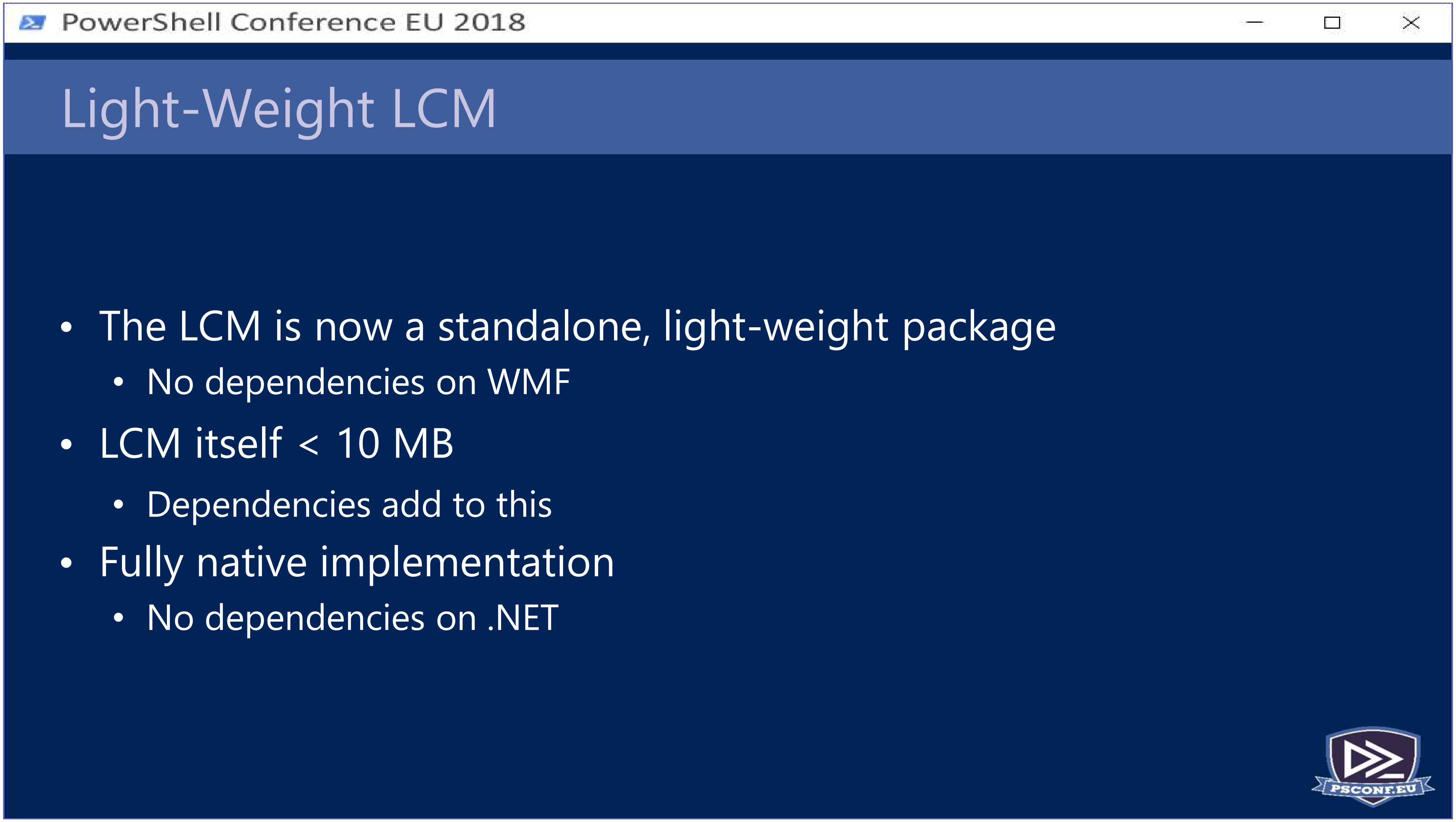
- What is the relationship between the next version of DSC and PowerShell Core?
- Will DSC be Open Source?
- What does this mean for my skillset and my existing projects?

We appreciate the continued feedback and look forward to working with the DSC community to make incremental impro progress together.



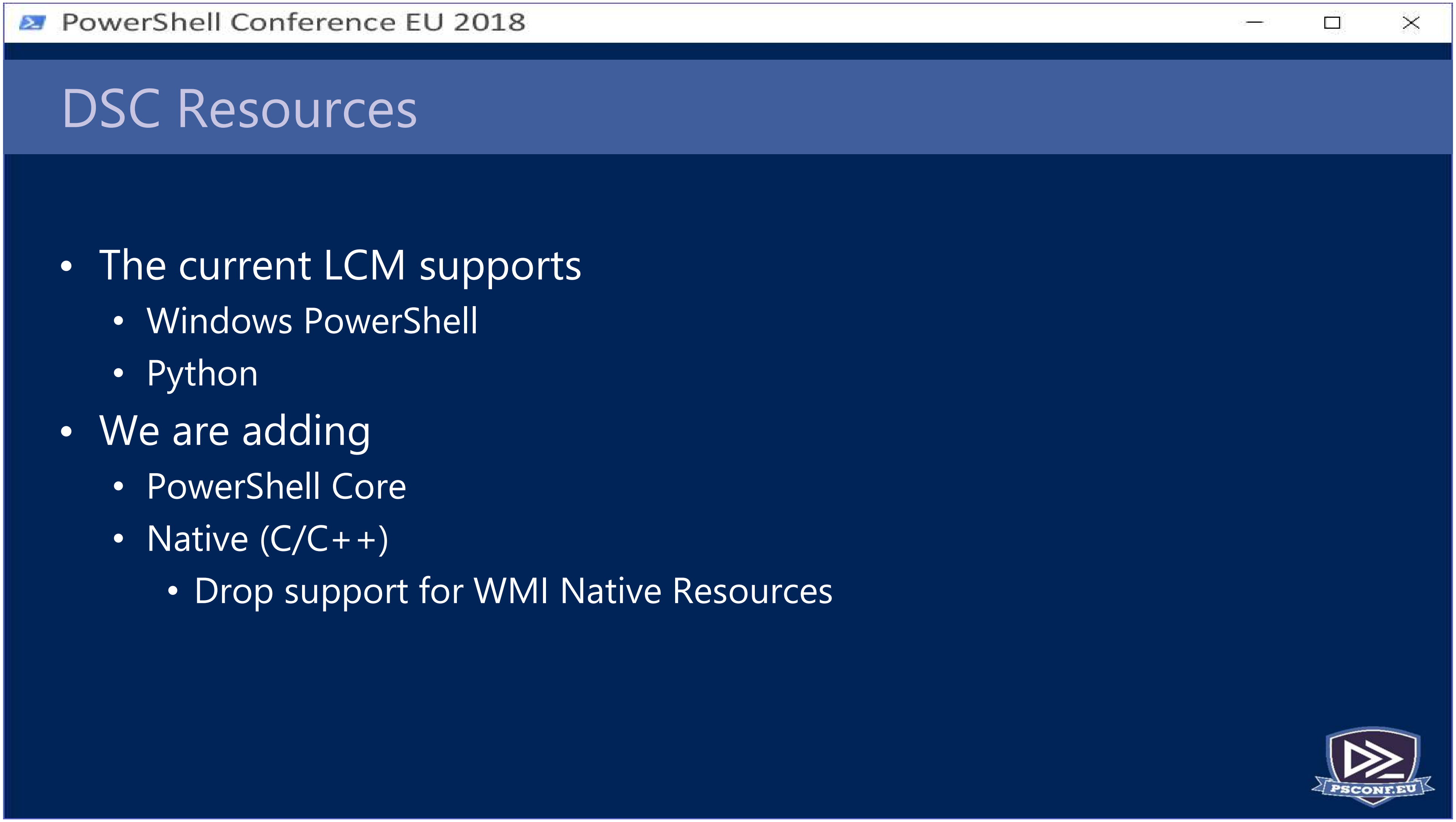
Current work on the LCM

- Light-weight, standalone package
- Support for PS Core and Native resources
- REST service (instead of WMI/OMI service)
- Cross-Platform (Windows and Linux)
- Open source
- Currently used in Azure scenarios



Light-Weight LCM

- The LCM is now a standalone, light-weight package
  - No dependencies on WMF
- LCM itself < 10 MB
  - Dependencies add to this
- Fully native implementation
  - No dependencies on .NET



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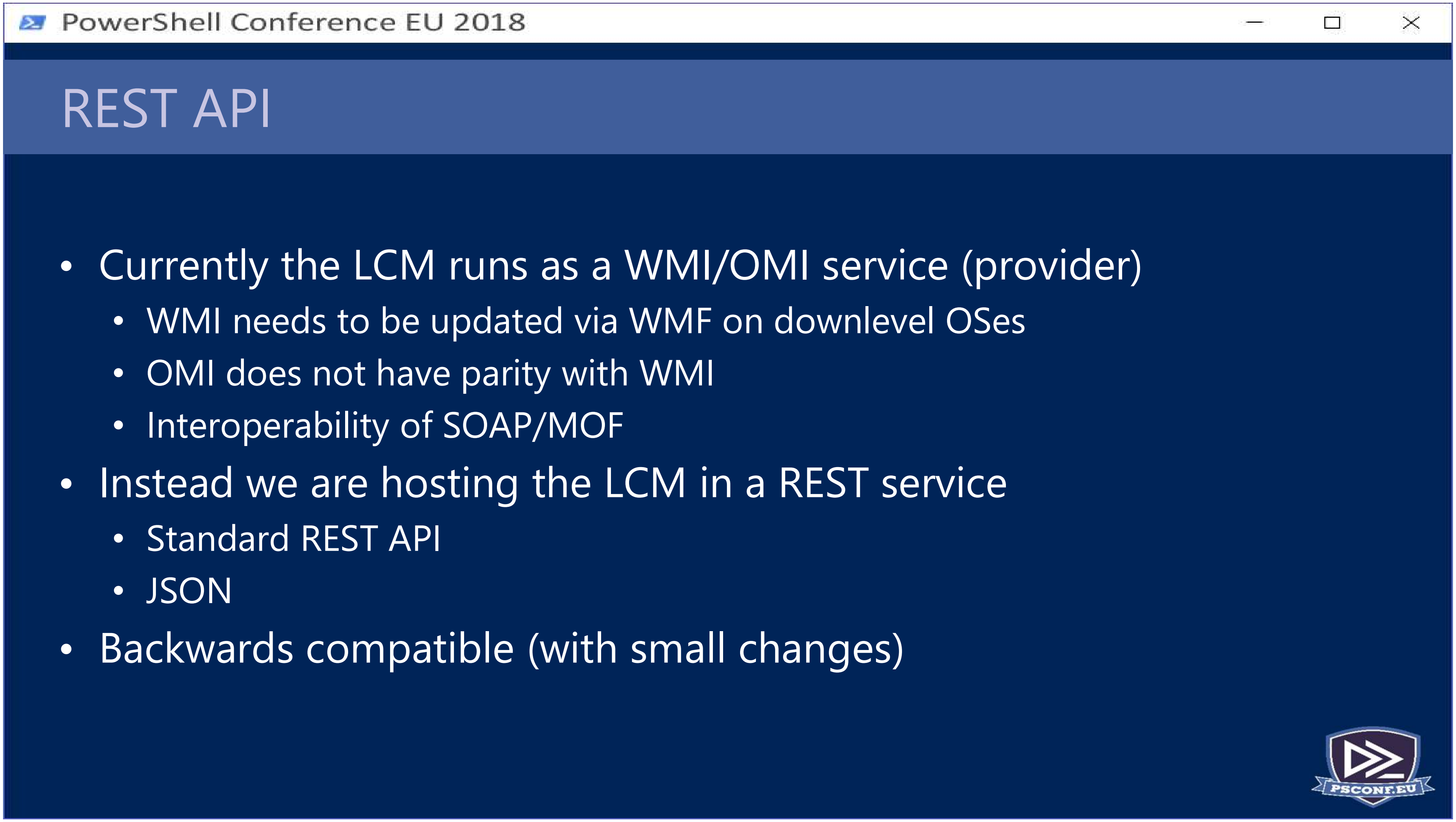
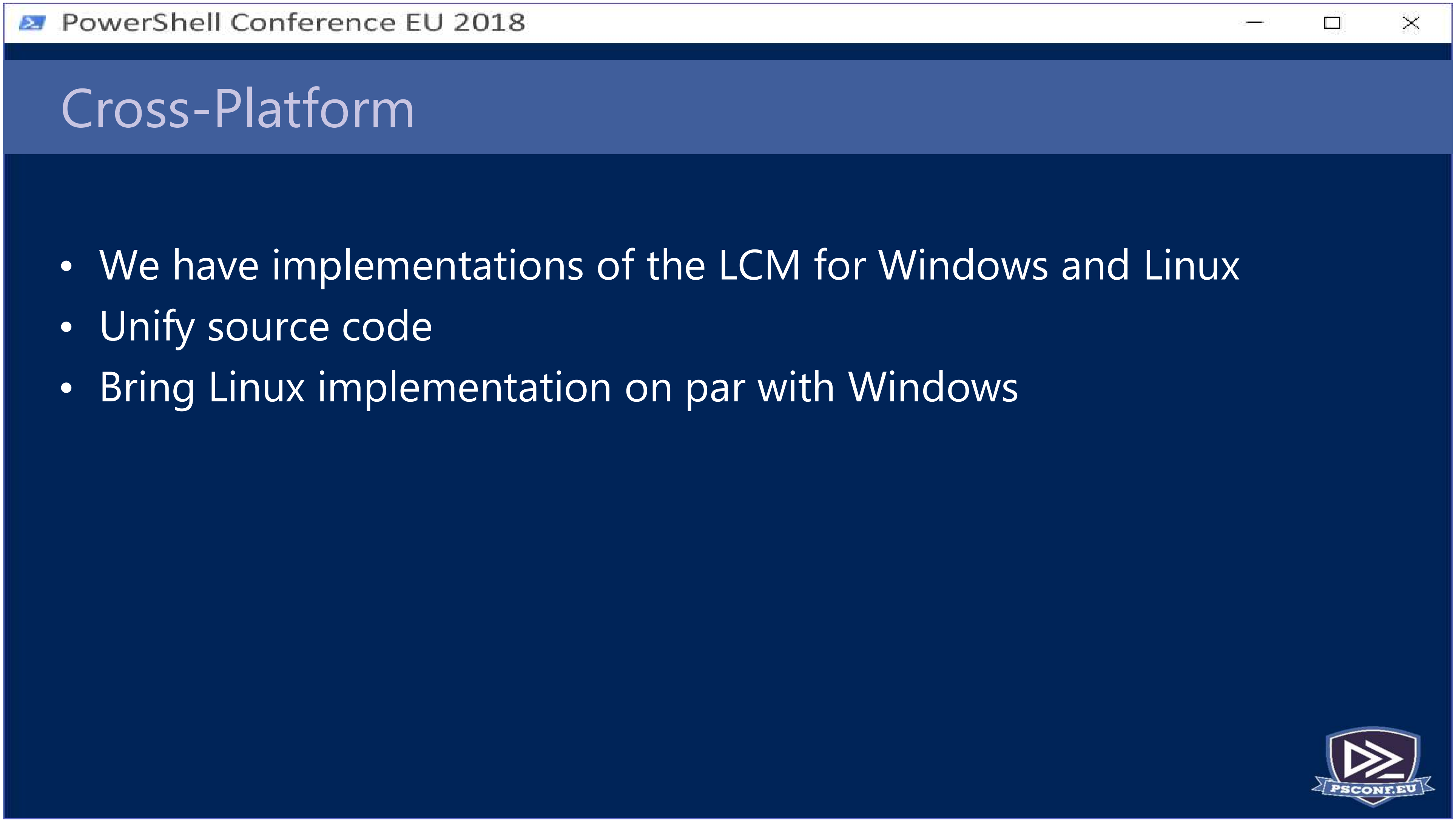
DSC Resources

- The current LCM supports
  - Windows PowerShell
  - Python
- We are adding
  - PowerShell Core
  - Native (C/C++)
    - Drop support for WMI Native Resources



REST API

- Currently the LCM runs as a WMI/OMI service (provider)
  - WMI needs to be updated via WMF on downlevel OSes
  - OMI does not have parity with WMI
  - Interoperability of SOAP/MOF
- Instead we are hosting the LCM in a REST service
  - Standard REST API
  - JSON
- Backwards compatible (with small changes)



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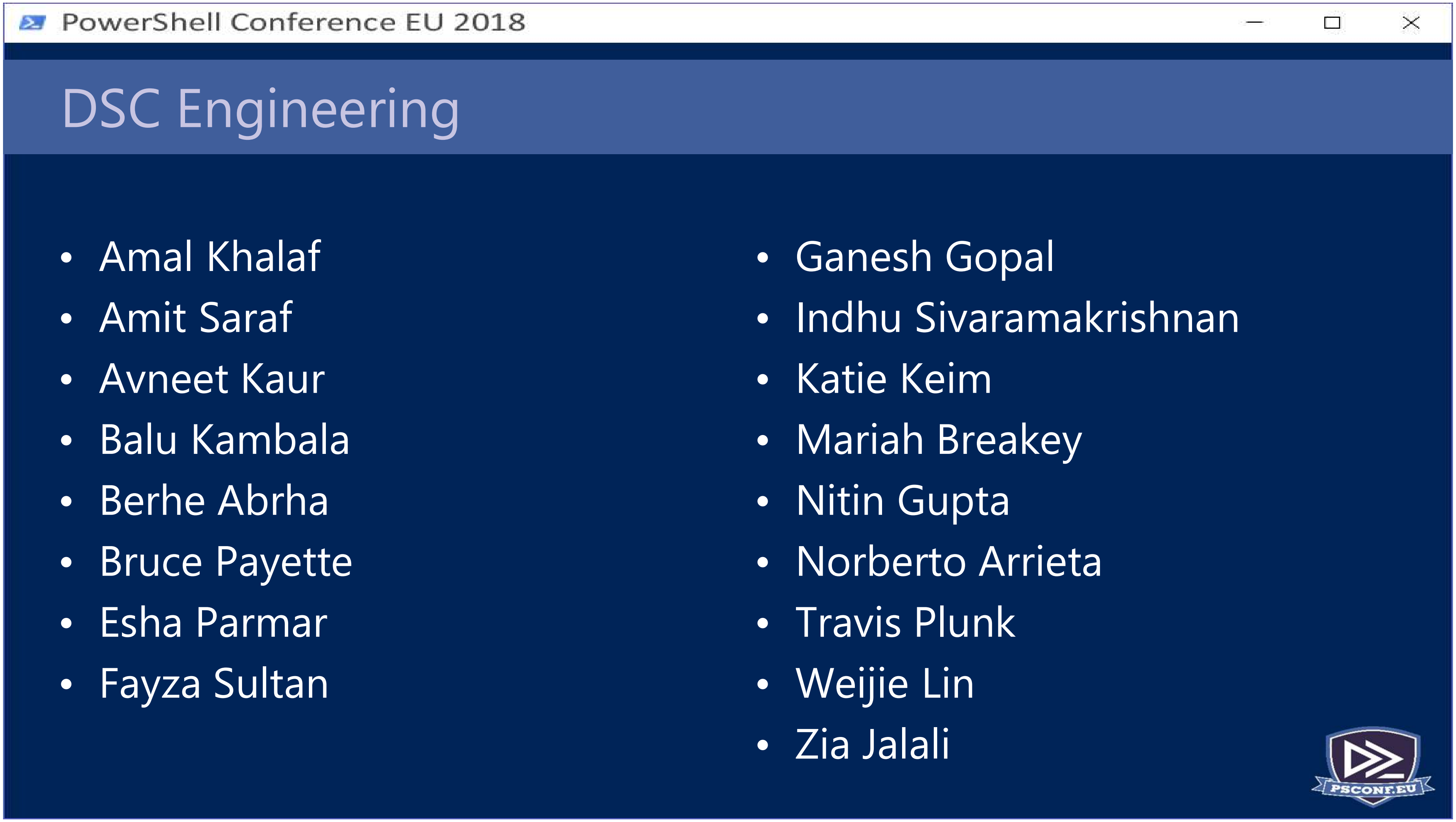
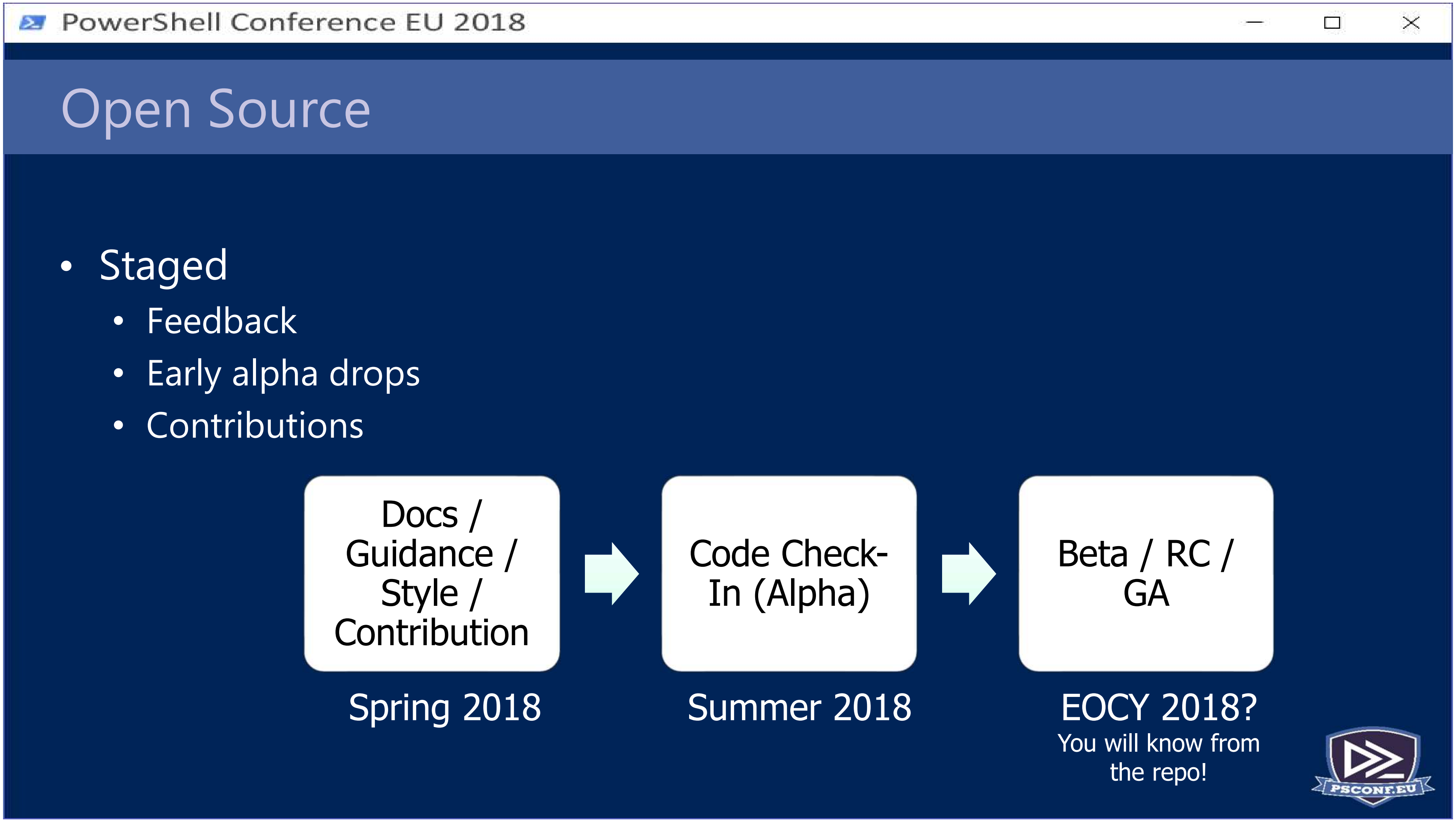
Cross-Platform

- We have implementations of the LCM for Windows and Linux
- Unify source code
- Bring Linux implementation on par with Windows



DSC Engineering

- Amal Khalaf
- Amit Saraf
- Avneet Kaur
- Balu Kambala
- Berhe Abrha
- Bruce Payette
- Esha Parmar
- Fayza Sultan
- Ganesh Gopal
- Indhu Sivaramakrishnan
- Katie Keim
- Mariah Breakey
- Nitin Gupta
- Norberto Arrieta
- Travis Plunk
- Weijie Lin
- Zia Jalali



Open Source

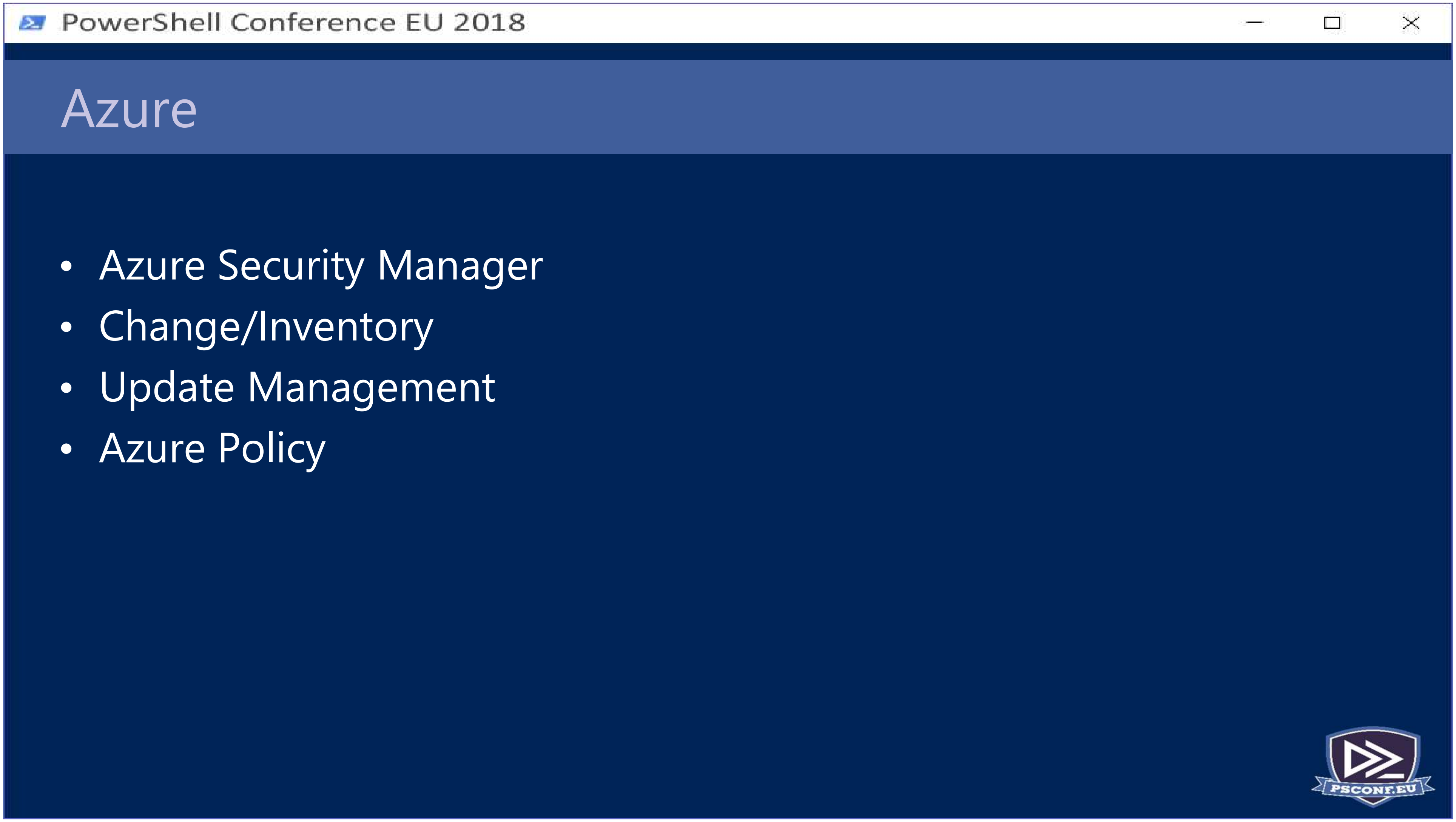
- Staged
  - Feedback
  - Early alpha drops
  - Contributions

Docs / Guidance / Style / Contribution → Code Check-In (Alpha) → Beta / RC / GA

Spring 2018

Summer 2018

EOCY 2018?
You will know from the repo!



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Azure

- Azure Security Manager
- Change/Inventory
- Update Management
- Azure Policy