

Secure Remote Management with Just Enough Administration (JEA)

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Level:
Intro/Intermediate

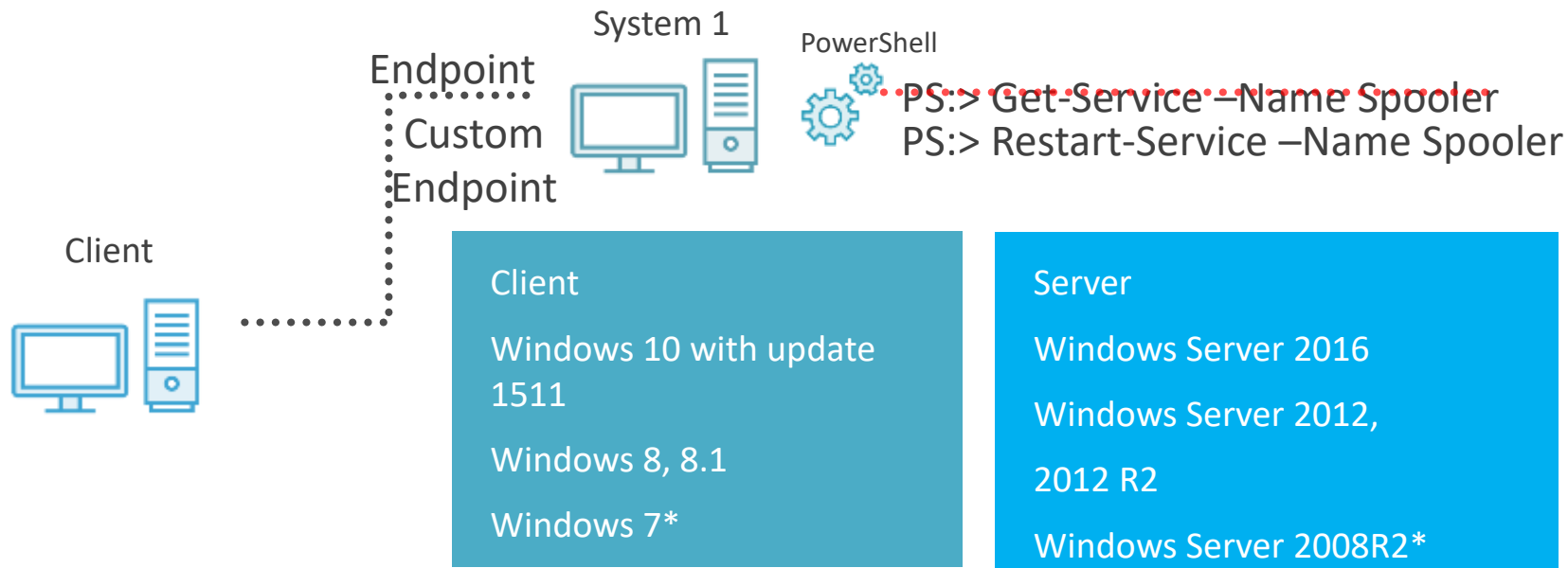
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What Is this About?

- Remote PowerShell management requires full administrator access
- You may need to provide more limited or constrained access
- We've been able to do this all along...
- JEA makes it easier

JEA in PowerShell Core/PowerShell 7
is a work in progress for non-
Windows platforms

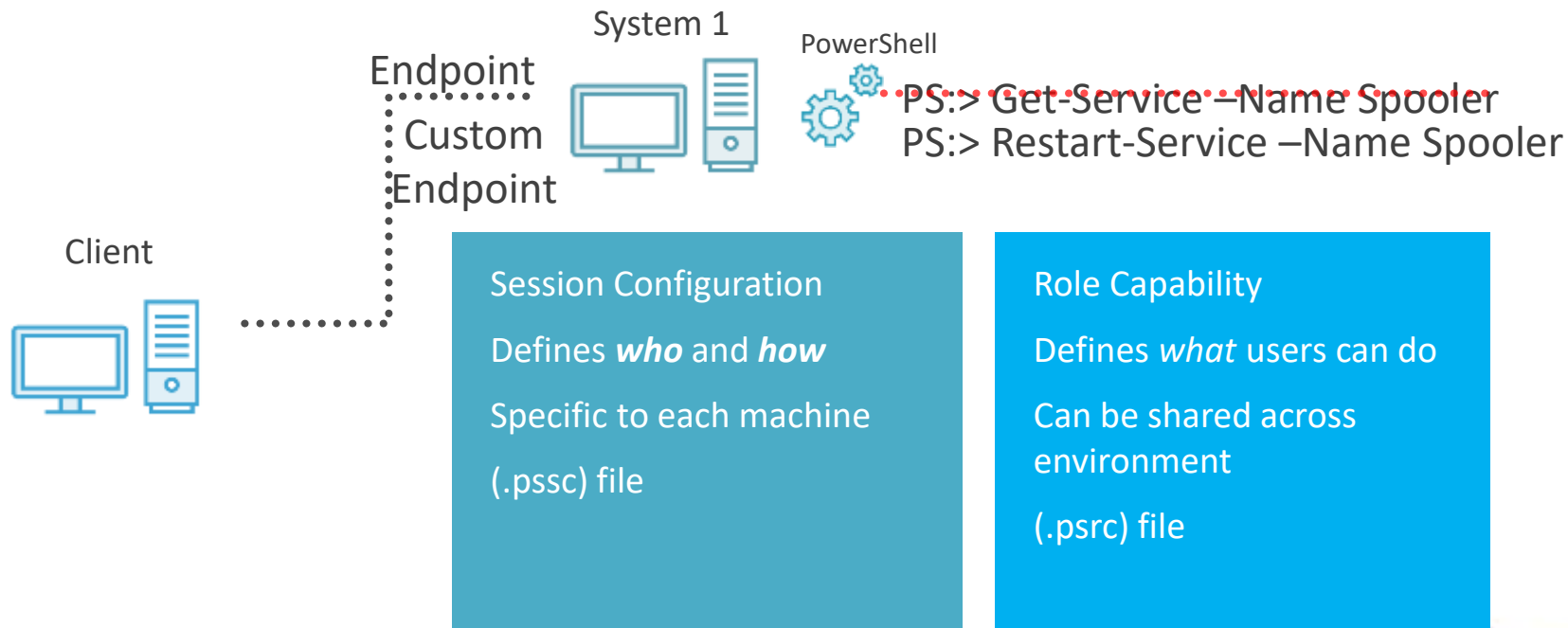
Requirements for JEA



Windows Management Framework 5 or above

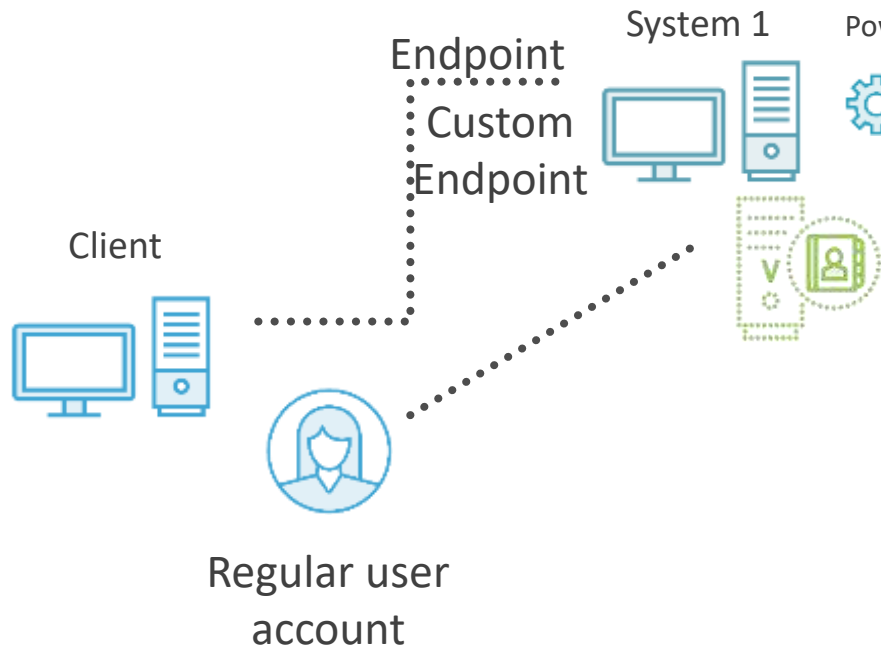
* Support for virtual account not currently available

PS Remoting with JEA



JEA and Virtual Accounts

*Currently does not work for Windows 7 or
Windows Server 2008R2*



PowerShell

```
PS:> Get-Service -Name Spooler  
PS:> Restart-Service -Name Spooler
```

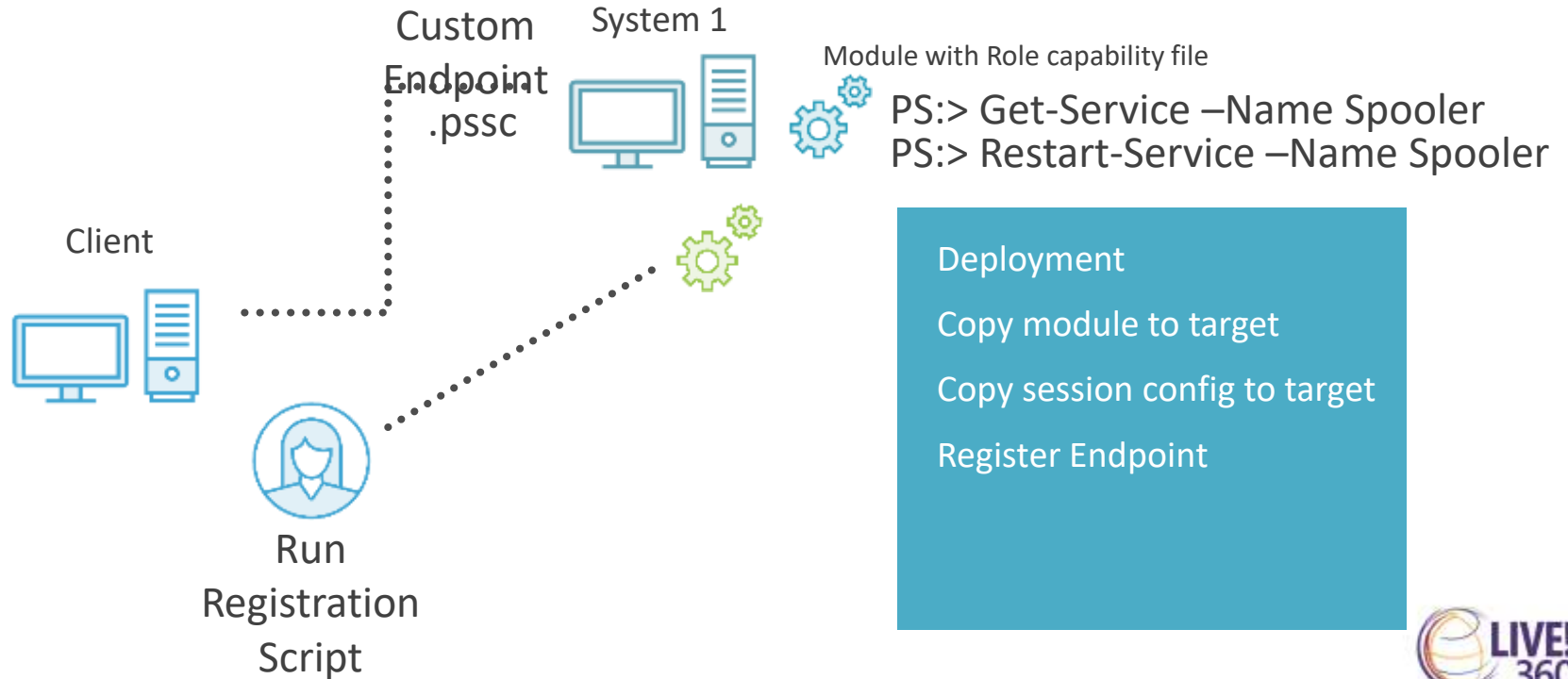
Virtual Accounts

One time privileged account

Runs under local
Administrator

Can be configured for other
accounts

Automated Deployment



Benefits

- Reduce the number of excessive privileged accounts
- Easy to create and manage endpoints
- Decide exactly what an administrator can do
- See what administrators are doing

Challenges

- Many administrators still use older GUI based applications
- PowerShell proficiency is mandatory
- Understanding the exact needs of an administrative role
- Handling emergencies (“Break the glass”)
- Rolling out with educated administrators

Process

1. Identify the Role and the tasks that need to be enabled
2. Restrict those tasks as needed
3. Put them in a Role Capability file
4. Register the Session Configuration through automation or DSC
5. Test and correct as needed

Pilot to Production

Work with administrators that have the required PowerShell skills

Define and create roles

Create a “BreakTheGlass” endpoint for emergencies

Test and correct on a few “Pilot” servers

Begin roll-out to other servers

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Stay in Touch

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