



Bye bye Orchestrator, there's a new kid in town!

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# David O'Brien

MVP for

Heavy

Power  
Com  
SM  
Or

Blog:

Twitter

Princip



e

# Agenda

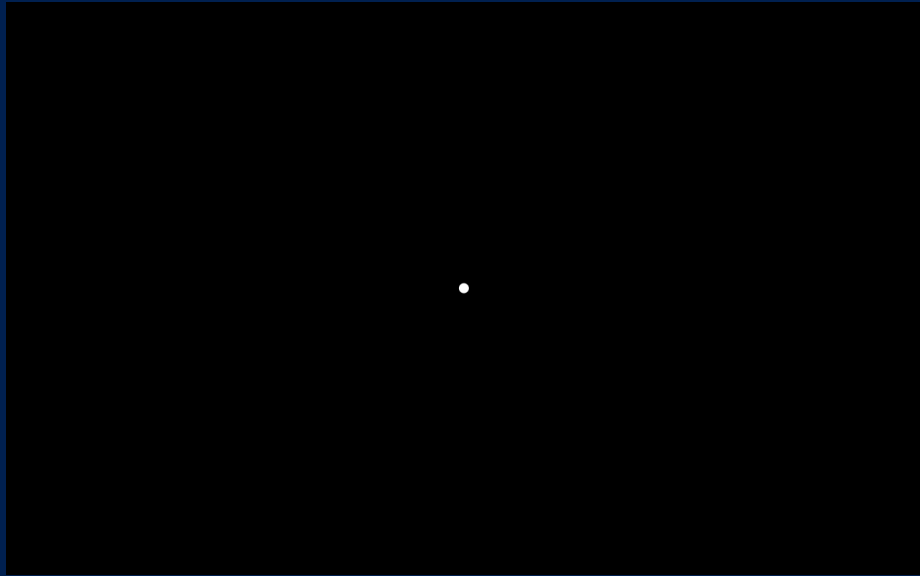
- Looking back
- Looking ahead
- Powershell
- From here to there

# Orchestrator

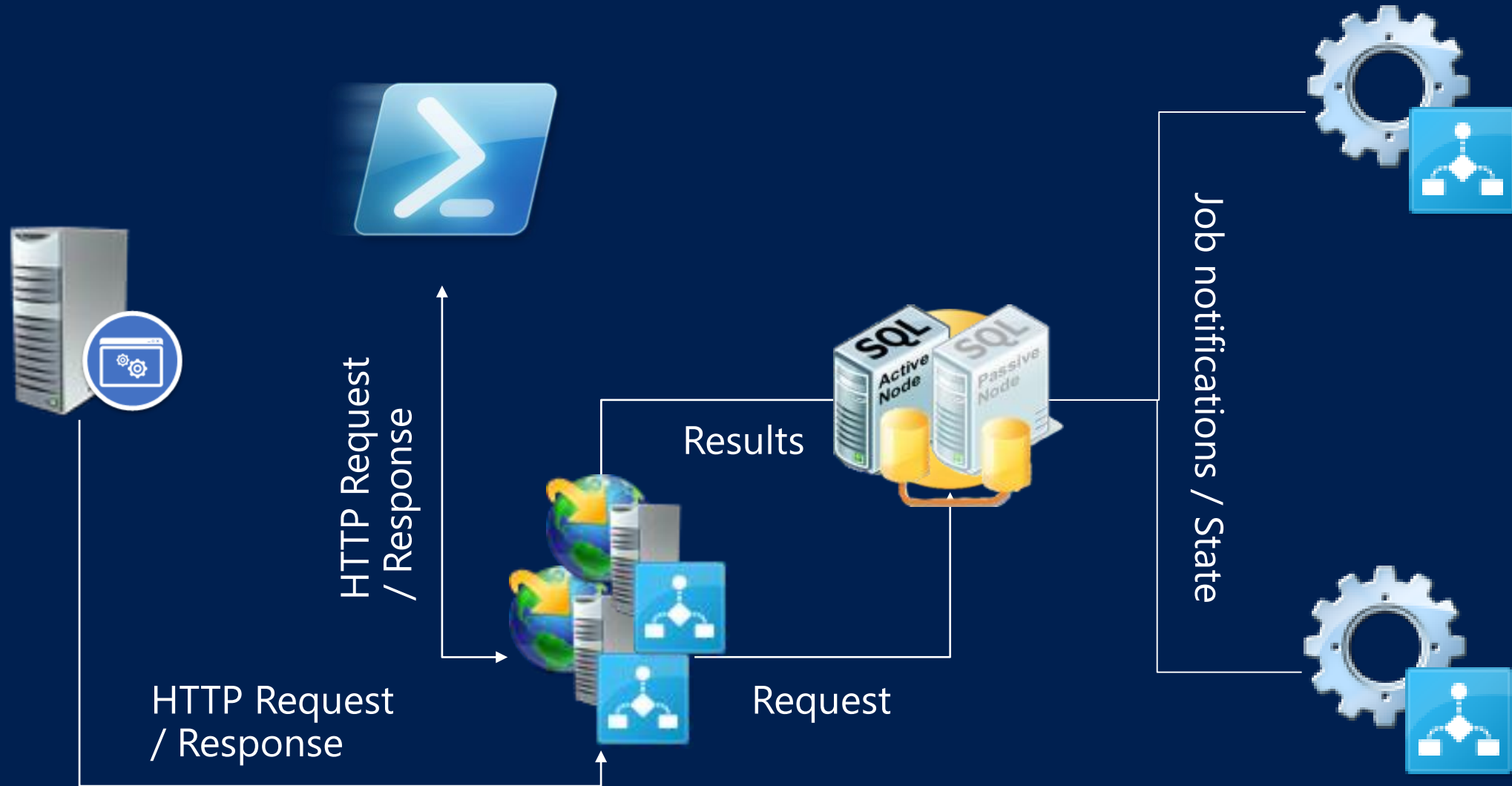




# SMA



# SMA Infrastructure



# DEMO

SMA standalone

# Powershell Workflow

- Released with Powershell 3.0

- Based on Windows Workflow Foundation

- Built for

- long-running tasks
- Tasks capable of being executed in parallel
- Interruptible tasks

- Limitations

- Variable scoping
- Named params only
- Object de-serialisation
- Cmdlets that aren't turned into workflows

Solution to most of these: **InlineScript**

```
$ADComputer = Inlinescript {  
if (-not (Get-Module -Name ActiveDirectory)) {  
    try {  
        Import-Module -Name ActiveDirectory  
        'Import'  
    }  
    catch {  
        Write-Error $_  
    }  
}  
  
if (-not (Get-ADComputer -Filter "SamAccountName -eq `"$($USING:WebserverName)`$`")) {  
    $ADComputer = New-ADComputer -Name $USING:WebserverName -SamAccountName $USING:WebserverName  
    return $ADComputer  
}  
else {  
    Write-Verbose "The Computer account for $USING:WebserverName already exists"  
}  
}
```



# Checkpoint-Workflow

- Helpful if long-running script fails halfway through
- State saved on disk (Workflow) or DB (SMA)
- Very important for Azure Automation (Fair Share feature)

# Authoring in ISE

- Emulated Automation Activities
- Test runbooks from ISE
- Copy & Paste into WAP
- Better: Publish from ISE!

# DEMO

Powershell Workflow

# WAP

## Windows Azure Pack

- Features of 'cloud' Azure on-premises

## Admin Portal and Tenant Portal

## Integrates into existing products

- SQL server provisioning
- Websites provisioning
- VMM clouds (SPF)
- SMA runbooks

# DEMO

SMA in WAP integrated

# Take-aways

- Extensive Powershell know-how needed
- Write your workflows in ISE
- WAP not necessary, but helpful!
- Powershell is King! ... and what Microsoft is doing everywhere else now!



# When at home...

Integrate SCO with SMA -> [TechNet SCO Blog](#)

Powershell Workflow basics -> [Scripting Guys](#)

Powershell Workflow limitations -> [Scripting Guys](#)

Authoring Runbooks in ISE -> [TechNet SCO Blog](#)

SMA Whitepaper -> [Michael Rueefli \(MVP\)](#)



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THALES

