Hybrid Lab Automation

Hands-On JEA

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Hybrid Lab Automation

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Agenda

- Introduction
- Why automate?
- Lab environment
- Creating the lab
- Creating and managing the connection

Why automate

- Building labs is very time consuming
- Lab configuration drifts over time
- Knowledge of all required products may not be sufficient, e.g. PKI, SQL and Exchange
- Consistency is needed on-premises and in the cloud

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BECAUSE IT IS AWESOME!

Creating a lab

- Module AutomatedLab (github.com/AutomatedLab)
- Currently 143 cmdlets to create and manage labs
- For Hyper-V, Azure and VMWare
- Supports 34 different roles including
  - AD DS, AD CS, AD FS
  - SQL
  - …and loads more with easy customization capabilities

Using and accessing AutomatedLab

New-LabDefinition

Add-LabMachineDefinition

Install-Lab

Get-Command –Module AutomatedLab.Common

Demo

Hyper-V
2 DC, ADDS
File Server
Web Server
Gateway

Azure
2 DC, ADDS
File Server
Web Server

Summary

- Easily test hybrid scenarios
- Generate consistent environments every time
- Help is always welcome!
- Get AutomatedLab and contribute: https://aka.ms/AutomatedLab/AutomatedLab

Next Steps

- Now: 15 min break

- Grab a coffee
- Stay here to enjoy next presentation
- Change track and switch to another room

- Ask me questions or meet me in a breakout session room afterwards

Questions?

about_Author

```
PS C:\Users\japete> Get-Introduction


Name            : Jan-Hendrik Peters
Born            : 1987-01-24
Profession      : Premier Field Engineer @ Microsoft Germany
Years in field      : 8
Technologies        : {PowerShell, DevOps, DSC, Active
Directory}
Hobbies                 : {Travelling, Brewing, Coding, Hiking}
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PS C:\Users\raandree> Get-Introduction

Name : Raimund Andrée
Born : 1978-07-31
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Years in Field : 23
Technologies : {PowerShell, DevOps, DSC, Active Directory}
Hobbies : {Travelling to high so called risk countries, Coding, Hiking}