Scratching the Surface of Windows Server and Configuration Manager

Presented by Naazer Ashraf
SIGUCCS 2017
Message from our Sponsors

• Bethlehem, Pennsylvania
  – 90 minutes from New York City

• 7,059 students
  – 5,080 undergraduates
  – 1,979 graduate students

• 540 full-time Professors

• 1,100 support staff

Library and technology support services integrated into one unit: *Library & Technology Services (LTS)*
Path to Prominence
Bigger Problems Will Require Better Tools
About Me

• IT Professional with 15- yrs. of experience in Higher Ed.
• I am a consultant, engineering instructor, and all-around geek specializing in Operating Systems Deployment solutions and Engineering Support at Lehigh University.
• In my spare time, I enjoy Cricket, Squash, Badminton, and Table-Tennis.
BYOL
Welcome to my blog, quickest way to find articles is usually to search for them.

hydration

Search in  All  Title  Contents

Hydration Kit For Windows Server 2016 and ConfigMgr Current / Technical Preview Branch

Deployment Research - Johan Arwidmark

This Kit builds a complete ConfigMgr v1606/1610 with Windows Server 2016 and SQL Server 2016 SP1 infrastructure, and some (optional) supporting servers. This kit is tested on both Hyper-V and VMware virtual platforms, but should really work on any virtualization platform that can boot from an ISO. The kit offers a complete setup of both a primary site server running ConfigMgr Current Branch v1606 (server CM01), as well as a primary site server running ConfigMgr Technical Preview Branch v1610 (server CM02). You also find guidance on upgrading these platform to the latest build.

Read more ...
Hydration Kit

• Create the virtual environment
• Download the sample files
• Install and configure Microsoft Deployment Toolkit (MDT)
• Populate MDT with all the prerequisite software
• Use MDT to generate an offline media ISO file
• Deploy the virtual machines
Build Your Own Lab

Main servers
• **DC01.** Windows Server 2016, DC, DHCP and DNS
• **CM01.** Windows Server 2016, SQL Server 2016 SP1, ConfigMgr Current Branch v1702, and MDT 8443

Optional supporting servers for ConfigMgr Technical Preview Branch, and MDT Lite Touch (reference image builds)

• **CM02.** Windows Server 2016, SQL Server 2016 SP1, ConfigMgr Current Branch Technical Preview 1703
• **MDT01.** Windows Server 2016, SQL Server 2016 SP1 Express
• **WSUS01.** Windows Server 2016, SQL Server 2016 SP1 Express
Build Your Own Lab
Build Your Own Lab
Build Your Own Lab
Enter Windows Server
Squeezing More Out of the Metal
Deduplication Savings

VMs Properties

General Sharing Security Previous Versions Customize

E:\

4.41 TB (4,853,258 files)

Disk: 315 GB (339,229 files)

595 Files, 438 Folders

Checked: 2/16/2016, 7:32:55 PM

Attributes:
- ReadONLY (Only applies to files in folder)
- Hidden

OK Cancel Apply

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Storage Spaces Direct
S2D – Storage Spaces Direct

Hyper-V Virtual Machines

Scale-Out File Server

Storage Spaces Direct

Converged
Storage and compute in separate clusters
S2D – Storage Spaces Direct

Hyper-V Virtual Machines

Storage Spaces Direct

Hyper-Converged
One cluster for compute and storage
Windows Server Cadence
# Joining the semi-annual channel

“I need to innovate rapidly. The new Semi-annual Channel gives me early access to the newest OS innovation.”

“I need predictability. The traditional Long Term Servicing Channel is the best choice for me.”

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Windows Insider Program

Explore Windows 10 and Windows Server Insider Preview Builds

Register with your organizational account to submit feedback on behalf of your organization and join our Windows Insider for Business Tech Community to collaborate, share and learn from experts.

Windows Insider Preview
Register to automatically receive the latest Windows 10 Insider Preview builds and explore business-related features.

GETTING STARTED

Windows Server Insider Preview
Download the latest Windows Server Insider Preview builds and Remote Server Administration Tools (RSAT).

GETTING STARTED WITH SERVER
Enter ConfigMgr

• Start by focusing on two areas:
  – Operating System Deployment
  – Application Management

• Aiming to move to Production in Spring 2018
Why ConfigMgr

• Best product for managing Windows in the Enterprise
• Manages over 75% of enterprise assets in the world
• Designed to manage the entire lifecycle of a device
• Vast array of strong and mature capabilities
• Vital to effectively plan our environment
Current Branch and Cadence

• Current Branch releases every 4 months
• Similar release cadence to Windows 10
• Technical Preview NOT meant for Production
• Technical Preview releases come out every month
• Automate your builds using Hydration Kit
Useful Resources
If you’re not on Twitter, Get on Twitter!
Resources
Resources

windows-noob.com
@ncbrady
Resources

blog.configmgrftw.com

@JasonSandys
Resources

deploymentresearch.com

@jarwidmark
Resources

deploymentbunny.com

@mikael_nystrom
Useful Resources

Learn WINDOWS POWERSHELL IN A MONTH OF LUNCHES
SECOND EDITION

DON JONES
JEFFERY D. HICKS

MANNING

System Center 2012 R2 Configuration Manager
Mastering the Fundamentals, 3rd Edition
By Kent Agerlund

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Lessons Learned

• Get on Twitter
• Build your own lab & play
• Don’t wait
• Steal with Pride
Questions?

Presented by Naazer Ashraf
SIGUCCS 2017
Thank you

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