

Mastering Windows as a Services (WaaS) in the Enterprise with SCCM

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Windows as a Service offers a new way to build, deploy and service Windows workstations. This process has been so daunting for businesses that Microsoft has had to repeatedly extend support of older builds of Windows 10. This training aims to show you how to keep Windows upgraded based on our real-world experiences with Windows 10 and Configuration Manager.

You will walk you through each step; some areas will seem light and easy while others will be quite deep and complex to get a WaaS master at the end of this 3-day Masterclass.

This course is delivered in English.

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We will walk you through each step below; some areas will seem light and easy while others will be quite deep and complex. We will cover the following points:

- Planning
- Pre-assessment
- Building the tools, scripts, etc. for the upgrade
- Setting everything up in SCCM
- POC, Pilot the Upgrade
- Ready for Production

Duration:

3 days

Teacher:

Kaido Järvemets - Enterprise Mobility MVP

Language:

English

Material:

Student Lab Manual, Slide deck, and lab files

Target audience:

Enterprise System Engineers, Administrators and System Integrators

Requirements:

- Experience with Windows Server 2016
- Good understanding of Active Directory
- Good understanding of Configuration Manager Current Branch



The course will cover the following topics:

Introduction to Modern IT and Modern Workplace

- Issues that I have seen
- Vision
- Re-think security
- One-Man Job or Team effort
- The balance between security and productivity
- Continues changes, new opportunities

Introduction to Windows as a Service

- SAC, SAC-T, LTSC
- What we have seen and learnt past 3 years

Windows as a Service challenges and how to overcome these

Workstation pre-assessment

- Device Health
- Upgrade Readiness
- Compatibility scan against Windows 10 installation media
- Upgrade Readiness integration with Configuration Manager

Windows 10 In-place upgrade scenarios

- Upgrading from Windows 7 to Windows 10
- Upgrading from Windows 10 to Windows 10



Preparing for Windows 10 In-place upgrade

- Extending the Configuration Manager hardware inventory
- Preparing queries and reports
- Preparing Task Sequences, packages, scripts etc.
- Driver packages
- Windows 10 Security features

Windows 10 In-Place Upgrade using Task Sequences

- How to write scripts for Task Sequences
- How to add extra logging to your scripts
- How to pre-cache content for upgrade
- In-place upgrade Task Sequence design
- Tips and tricks
- How to wrap vendor tools using PowerShell
- Registry and WMI Tattoo
- Handling rollback

Building front-ends for user-driven Windows 10 In-place upgrades

- How to create WPF based front-ends for end-users using Visual Studio
- Writing pre-perquisite scripts for upgrade

BIOS to UEFI

- How to convert from legacy BIOS to UEFI during the in-place upgrade
- How to use MBR2GPT

BIOS updates and configuration

- How to handle BIOS updates
- How to handle hardware BIOS configuration during in-place upgrade



Troubleshooting

- How to handle hard-blockers
- How to use Windows 10 SetupDiag tool

Windows 10 Image Servicing

- How to add monthly cumulative updates
- Handling in-box applications