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Master your Apple OS X devices with  
ConfigMgr 2012 R2 and more....



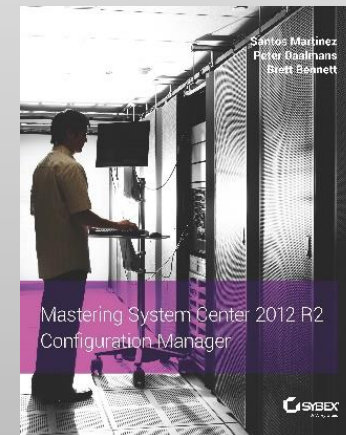
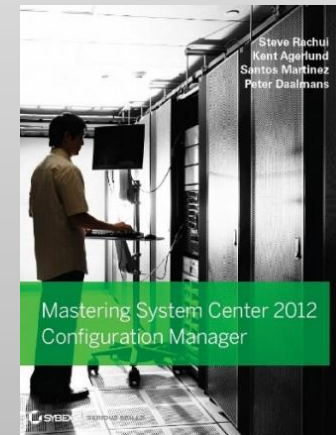
Configuration Manager



# Who am I?



- Peter Daalmans
  - Senior Technical Consultant at IT-Concern BV
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  - Microsoft MVP: Enterprise Client Management (ConfigMgr and Windows Intune)
- Communities
  - Founder WMUG NL (<http://wmug.nl>)
  - Founder and Blogger ConfigMgrBlog.com
- Author
  - Mastering System Center 2012 Configuration Manager
  - Mastering System Center 2012 R2 Configuration Manager



# Agenda



- Native manageability options
  - Setting up support and enroll Mac OS X clients
  - Deploy Settings
  - Hardware Inventory
  - Deploy Applications
- Extend ConfigMgr 2012 R2 with Parallels

Native Manageability options



# Native Manageability options



- Support for Mac OS X 10.6, 10.7, 10.8 and 10.9
- Hardware Inventory
- Application Deployment
- Settings Management

# Enrollment of Mac OS X



- What do we need?
  - Public Key Infrastructure (AD CS)
  - Site server with Internet FQDN
  - HTTPS-enabled Management Point
  - HTTPS-enabled Distribution Point
  - Enrollment Point and Enrollment Proxy Point
  - Client Settings configured
- Installation/Enrollment
  - Terminal-based install (Console/SSH)
  - Manual certificate enrollment
  - User-driven GUI in SCCM 2012 R2

setting up support and  
enrolling Mac OS-X device



# Inventory



- Hardware inventory via Common Information Model (CIM)
- Installed programs via hardware inventory
- Inventory schedules handled by Default Client Policy



inventory



# Application Management



- Native in ConfigMgr 2012 SP1 / R2 using CMMAC wrapper
- Supports APP, PKG, MPKG, DMG
- Detection via Application Bundle ID and Package ID
- Deployment to Devices, not Users

deploy applications



# Compliance Settings



- Creation of Items and Baselines
- Report compliance of preferences
- Remediate preferences
  
- Managing preferences is getting harder because of changes since 10.8 and 10.9 and the ConfigMgr Client for Mac OS X
  
- Supports directly managing (system) preferences
- Supports discovery and remediation scripts

# Compliance Settings



- System preferences are stored in `\Library\Preferences`
- So why can't I manage user preferences?
  - User preferences are stored in `~\Library\Preferences` (`\Users\%USER%\Library\Preferences`)
  - Configuration Manager client operates in Root context
  - So the client will change Preferences of User Root (DCR to be submitted)
  - Workaround = using Apple shell scripts
    - `defaults read <preference> <setting> <value>`
    - `defaults write <preference> <setting> <value>`

compliance settings



# Troubleshooting



- **Library/Application Support/Microsoft/CCM/Logs**
  - CCMClient-<date\_time>.log
    - Records activities that are related to the Mac client operations, which includes application management, inventory, and error logging.
- **~/Library/Logs**
  - CCMAgent-<date\_time>.log
    - Records information that is related to client operations, which includes user logon and logoff operations and Mac device activity.
  - CCMNotifications-<date\_time>.log
    - Records activities that are related to Configuration Manager notifications displayed on the Mac device .

# Extend ConfigMgr 2012 R2 with Parallels





# Parallels Mac Management Options



	PMM	ConfigMgr 2012 R2
Support for Mac OS X 10.9	●	●
Network discovery and automatic enrollment	●	○
Manual enrollment	●	●
Hardware and software inventory	●	●
Show warranty status*	●	○
Self-Service Application Portal for Macs*	●	○
Deploy software packages	●	
Deploy Mac OS X Configuration Profiles	●	○
Easy to use OS X Configuration Profile editor	●	○
Push scripts as SCCM Configuration Items	●	●
Deploy Mac OS X pre-built images	●	○
Enable FileVault 2 encryption	●	○
Remote Assistance	●	○

# Parallels Mac Management



- Parallels Mac Management for Configuration Manager integration consist of:
  - Netboot integration of PXE enabled Distribution Point
  - Configuration Manager Proxy agent
  - Plugin with Configuration Manager console

# Network discovery + automatic enrollment



- Prereqs
  - “Local” admin user
  - Remote Logon needs to be enabled
- Process:
  - Discovery finds a Mac in the configured Subnet (registered as IP Address)
  - Discovery process pushes a Client
  - Client will be installed and the client register itself to Configuration Manager

PMM demo time....



# Resources



- Blog James Bannan: <http://www.jamesbannanit.com>
- Blog Kent Agerlund: <http://kea.coretech.dk>
- Mac Scripter: <http://macscripter.net>
- Technet:  
<http://blogs.technet.com/b/pauljones/archive/2013/06/02/managing-mac-os-x-with-system-center-2012-configuration-manager.aspx>
- My blog: <http://configmgrblog.com>

Thank you, Dank u, Danke!



# Danke



Herzlichen Dank

Mirko Colemberg @mirkocolemberg

blog.colemberg.ch

Bewertung der Session: [Configmgr.ch](https://www.configmgr.ch)

- Xing: <https://www.xing.com/net/cmce>
- Facebook: <https://www.facebook.com/groups/411231535670608/>
- LinkedIn: <http://www.linkedin.com>
- Twitter: [https://twitter.com/configmgr\\_ch](https://twitter.com/configmgr_ch)

Nächster Event: Donnerstag 2. Oktober Digicomp Zürich

Haupt Thema OS-Deployment mit Johan Arwidmark und Mikael Nyström