



# Master your Mac OS X Devices with ConfigMgr 2012 R2

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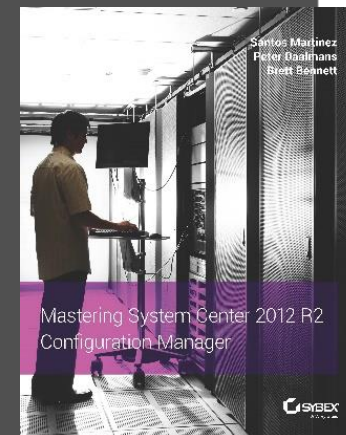
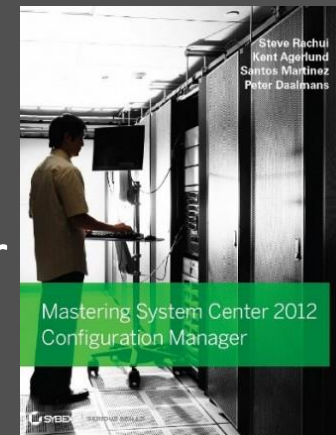
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# Who am I?

- Chris Nackers
  - Managing Consultant – Skyline Technologies
  - @chrisnack (Twitter)
  - Microsoft MVP – Enterprise Client Management
- Community
  - Co-Founder of Madison System Management User Group
  - Blog – [chrisnackers.com](http://chrisnackers.com)
- Author
  - Deployment Fundamentals – Vol 3 (ConfigMgr/MDT OSD)

# Who am I?

- Peter Daalmans
  - Senior Technical Consultant at IT-Concern BV
  - @pdaalmans.com / Peter.Daalmans@it-concern.nl
  - Microsoft MVP: Enterprise Client Management (ConfigMgr and Microsoft 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
  - 10.10 Support with client update
- 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

# Demo

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

# Demo

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
- Simulate Deployments are supported
- Must be a required deployment
- BITS not supported
- Global conditions not supported

# Demo

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>`

# Demo

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 .

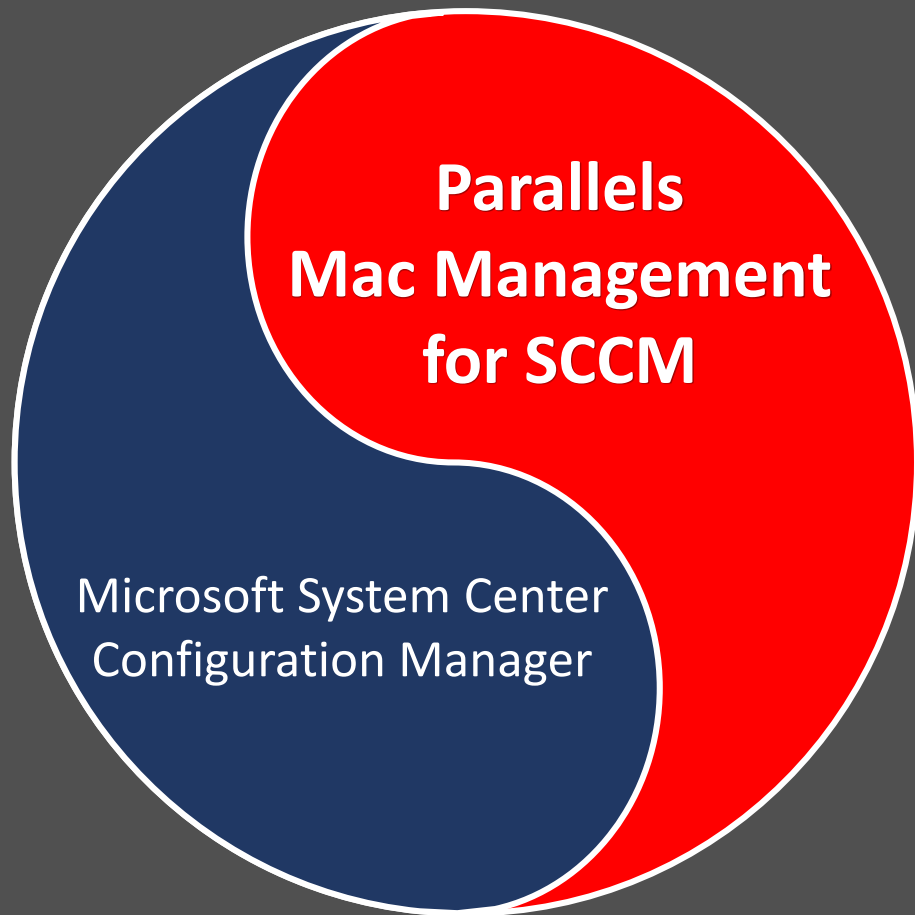


# Extend ConfigMgr 2012 R2 with Parallels Mac Management

Yury Averkiev, Program Manager

Parallels, Inc.

# Manage Macs with System Center Configuration Manager



- Discovery & Enrollment
- Inventory
- Enforce Compliance
- Software deployment
- Patch deployment
- OS image deployment
- Application Portal
- Reporting

# Parallels Mac Management vs. SCCM 2012 R2

	Parallels	SCCM 2012 R2
<b>Discovery and Enrollment</b>		
Network discovery and automatic enrollment	●	○
Manual enrollment	●	●
<b>Inventory</b>		
Hardware and software inventory	●	●
Collect AppleCare warranty status	●	○
<b>Compliance</b>		
Deploy Mac OS X Configuration Profiles	●	○
Easy to use OS X Configuration Profile editor	●	○
Push scripts as SCCM Configuration Items	●	●
Enable FileVault 2 encryption	●	○
Escrow and retrieve FileVault 2 personal keys	●	○

# Parallels Mac Management vs. SCCM 2012 R2

	Parallels	SCCM 2012 R2
<b>Software and Patch Deployment</b>		
Deploy software via SCCM Package Deployment	●	○
Deploy software via SCCM Application Deployment	●	●
Self-Service Application Portal for Macs	●	○
Silent & interactive deployment modes	●	○
<b>Mac OS X Image Deployment</b>		
Deploy Mac OS X images via SCCM	●	○
<b>Remote Assistance</b>		
Remote Assistance via VNC	●	○
Remote Assistance via SSH	●	○
<b>Configuration</b>		
Works without PKI infrastructure	●	○

# Recognized by the IT Professionals

Parallels Mac Management received a Best of TechEd 2014 award in the System Management category



# Parallels Mac Management

Parallels Mac Management for Configuration Manager integration consist of:

- Configuration Manager Proxy service
- Configuration Manager console extensions
- Mac client
- Netboot integration of PXE enabled Distribution Point

# Parallels Mac Management demo time....

# Parallels Mac Management Benefits

- Plug and play integration with SCCM
- Works with your existing SCCM infrastructure
- Advanced Mac management capabilities
- Support for the latest and legacy SCCM versions
- Short learning curve
- Reduces TCO



# Resources

- Blog James Bannan: <http://www.jamesbannanit.com>
- Blog Kent Agerlund: <http://kea.coretech.dk>
- Mac Scripiter: <http://macscripiter.net>
- Technet:  
<http://blogs.technet.com/b/pauljones/archive/2013/06/02/managing-mac-os-x-with-system-center-2012-configuration-manager.aspx>
- Blog Peter Daalmans: <http://configmgrblog.com>
- Blog Chris Nackers: <http://www.chrisnackers.com>



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## Session Title

Chris Nackers, Yury Averkiev and Peter Daalmans

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