WolfTech Active Directory: SCCM 101

July 28th, 2011
2-5pm Daniels 201

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http://activedirectory.ncsu.edu/

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What is going to covered?

- What is SCCM
- Roles
- Console
- Client
- Inventory
- Collections
- Power Management
- Software Distribution
- OS Deployment

What is SCCM?

- System Center Configuration Manager
- What can it do
  - Inventory
  - Application Deployment
  - Patch Management
  - Imaging
  - Power Management
  - Metering
  - Mobile Device Management
  - Network Access Protection
  - Forefront Client Security
- Why is it important to us

What is SCCM?

- Roles
  - Site Server
  - Management Point
  - Distribution Point
  - Fallback Status Point
  - Reporting Services Point
  - Software Update Point
  - Asset Intelligence Point
  - User State Migration
  - PXE Point

The Console

- How to install
  - Manually
    - http://activedirectory.ncsu.edu/services/sccm/sccm-console/
  - Group <OU>-EX-Microsoft-SCCM ConfigMgr Console-R3
  - Right-Click Tools
  - ConfigMgr Toolkit
  - Copy/Paste*
- Two main sections
  - Site Management
    - Site wide settings affecting all computers
  - Computer Management
    - Bulk of information admin has access to

The Client

- How to Install
  - GPO
    - Domain-EX-Microsoft-SCCM Agent-R3
    - Startup script
    - Copies Powershell script to C:\Winows\SCCM_Agent_Install.ps1
  - In WDS Image
  - Manual
    - Coming Soon
- Prerequisites
  - Must be in DNS
  - Must have a certificate
    - how to verify certificate
- Verify Install
  - Console
  - CcmExec.exe Process running
  - Control Panel

The Client

- Log Files
  - Use Trace32 to view log files
  - Ccmexec.log
  - Execmgr.log
- Firewall access
  - Printer and File Sharing
  - WMI
  - Remote Desktop
  - Remote Assistance
- Troubleshooting
  - QIP
  - Check certificate
  - Is script on box
  - When was the last time machine rebooted
  - Check status of client (has it checked in)
  - Uninstall
    - C:\Windows\System32\ccmsetup\ccmsetup.exe /uninstall

The Client

- Client Discovery
  - AD User Discovery
    - Once a day at midnight
  - AD System Discovery
    - Runs every four hours starting at midnight
  - AD Security Group Discovery
    - Runs every four hours starting at 1 AM
  - AD System Group Discovery
    - Runs every four hours start at 2 AM
  - Heartbeat Discovery
- Computer Cleanup
  - Obsolete Computer
    - 10 days
  - Inactive
    - 90 days
  - If you accidental delete something it will come back

Now What?

- Inventory
  - Resource Explorer
  - Reports https://oit100sccm-rp.oit.ncsu.edu\reports
    - Can only be viewed in IE
    - IE needs to be "Run as administrator"
    - login using your .admin account

Collections

- What is a collection
    - A grouping of objects
- Default Collections
    - One for each college and department
    - Based upon OU
- Permissions
    - Default Collection
        - OU-Admins group
        - Cannot edit
    - Subsequent Collections
        - OU-Admins
        - Full Control
- Building collections
    - Can be based upon anything found during inventory

Collections

- Maintenance Windows
  - They are cumulative
  - Must be longer than Program Maximum Allowed Run Time
  - Can be restricted to just OS deployments
- Power Management

Application Deployment

- Terms
  - Package
  - Program
  - Advertisement
- Types of Advertisements
  - Mandatory
  - Self Service
- Deployment Features
  - Adhere to any maintenance windows set on collections
  - Software will only install when no one is logged on
  - Download of software takes place in background
  - Software install as SYSTEM
- Cache Size
- Prerequisities

Application Deployment

- Custom advertisements of NCSU level packages
  - Custom schedules
  - Increase Cache size
  - Add specific prerequisites
  - Set rerun settings
  - Self Service Advertisements
- Deployments work off campus

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OS Deployments

- What's it used for?
  - Redeployments
  - Bare metal still using WDS
- What's available
  - Windows 7 Enterprise SP1
    - 32 and 64 bit
  - Windows Server 2008 Enterprise R2 SP1
  - Custom Images
- NCSU level groups for installing Windows 7 and Server
- Customizations to OS advertisements must be done by WDS admin
- User State Migration coming later

Coming

- Patching
  - Windows patches
  - 3rd party patches
- Metering
- Configuration baselines

Help

- AD Site
  - http://activedirectory.ncsu.edu/services/sccm/

- Mailing Lists
  - activedirectory@lists.ncsu.edu

- Jabber
  - "activedirectory" on conference.jabber.eos.ncsu.edu

Questions?