WolfTech
Active Directory: SCCM 101

July 28th, 2011
2-5pm Daniels 201

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2-5pm Daniels 201

http://activedirectory.ncsu.edu/
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](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
● Prerequisites
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
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?