



# Software Updates



MECM



Inleiding



Onderdelen Software Updates



Software Updates proces



Software Updates configureren



Software Updates uitrollen



Software Center Update Publisher

# *Inleiding*

- = Installatie van updates via ConfigMgr
  - ✓ Uitgevoerd via de system role 'Software Update Point'
- ➔ Vervangt WSUS
  - ✓ Gebruikt wel de service WSUS
    - ➔ Enkel de update catalog van WSUS wordt gebruikt

# *Inleiding*

- ➔ Waarom Software Updates i.p.v. WSUS ?
  - ✓ 1 client die zowel installatie van updates als applicaties kan beheren
  - ✓ Betere scheduling (ook door maintenance Windows)
  - ✓ Automatic deployment rules
  - ✓ Offline Servicing OS-images
  - ✓ Supersedence rule

# *Inleiding*

## ➔ Software Updates requirements (external to ConfigMgr)

- ✓ WSUS 6.2 / 6.3 / 10.0
- ✓ WSUS Admin console (zelfde versie)
- ✓ Windows Update Agent
- ✓ IIS
- ✓ Background Intelligent Transfer Service

# Onderdelen Software Updates

## Software Update Point (SUP)

- = Site system role voor beheren updates in ConfigMgr
- ✓ Verbindt WSUS-componenten met ConfigMgr
  - Synchronisatie met WSUS database voor downloaden laatste update-informatie (metadata)
  - Configuratie via SUP ⇒ Doorgestuurd naar WSUS Control Manager



Elke ConfigMgr site heeft minstens 1 SUP nodig !!

# *Onderdelen Software Updates*

## Software Update Agent (SUA)

- = Onderdeel van Configuration Manager Client
- ✓ Configuratie mogelijk via Client Settings
  - Verschillende instellingen voor verschillende groepen
    - Onderscheid tussen workstations en servers voor automatische installatie van updates

# *Onderdelen Software Updates*

## Software Update Metadata

- ✓ Elke update heeft 2 onderdelen ('software update'-bestand en -metadata)
- ✓ Bewaard in ConfigMgr database
- ✓ Bevat info over software update
  - Naam, omschrijving, update type, download URL, KB-nummer, ...



# *Onderdelen Software Updates*

## Software Update File

- ✓ Effectieve update bestanden
  - .EXE-bestanden
  - .MSI (Windows Installer File)
  - .MSU (MS Update standalone package)
  - .MSP (Windows Installer Patch)
- ✓ Bewaard op Distribution Point wanneer gedownload en uitgerold

# *Onderdelen Software Updates*

## Software Update Group

- = Verzameling van software updates
- ✓ Kan aangewend worden bij ADR (= Automatic Deployment Rules)
- ✓ Bevat ook deployment-informatie

# *Onderdelen Software Updates*

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## Deployment Template

- ✓ Bevat uitrol-instellingen
- ✓ Kan aangemaakt worden tijdens aanmaken ADR of gewone deployment

# *Onderdelen Software Updates*

- ✓ Eigenschappen deployment template:
  - Collection                      Voor welke collection is deployment bestemd ?
  - Deployment settings              Sturen wake-up pakketten - Setting 'required' of 'available'
  - Scheduling                      Tijdstip uitvoer van deployment en deadline hiervoor
  - User Experience                      Meldingen tonen/verbergen - Herstarten systeem

# Onderdelen Software Updates

Deploy Software Wizard

Summary

General  
Deployment Settings  
Scheduling  
User Experience  
Alerts  
Distribution Points  
**Summary**  
Progress  
Completion

Confirm the settings for this new deployment

Details:

Save As Template...

**General**

- Software: Templated TS
- Collection: Windows 10 Devices (Member Count: 0)
- Use default distribution point groups associated to this collection: Disabled
- Automatically distribute content for dependencies: Disabled
- Pre-download content for this task sequence: Disabled

**Deployment Settings**

- Action: Install
- Purpose: Available
- Task sequence deployment option: Only media and PXE
- Allow clients to use a metered Internet connection to download content: Disabled

**Scheduling**

- Schedule when this deployment will become available: Disabled
- Schedule when this deployment will expire: Disabled
- Rerun behavior: Always rerun program

**User Experience**

- Allow users to run the program independently of assignments: Enabled
- Software installation: Disabled
- System restart (if required to complete the installation): Disabled
- Allow task sequence to run for client on the Internet: Disabled
- Commit changes at deadline or during a maintenance window (requires restarts): Enabled
- Show Task Sequence progress: Enabled

To change these settings, click Previous. To apply the settings, click Next.

< Previous   Next >   Summary   Cancel

# *Onderdelen Software Updates*

## Alerts

- ✓ Waarschuwingen tonen in console of niet

## Deployment Location

- ✓ Via shared folder of vanaf internet downloaden

## Language Settings

- ✓ Taal update-bestand

## Download Settings

# *Onderdelen Software Updates*

## Deployment Package

- = Methode om updates te downloaden naar netwerk share ⇒ Kopieert bestand naar DP
- = Pakket dat wordt doorgegeven aan client om specifieke updates te installeren
- ✓ Updates pas gedownload op einde van wizard 'Deploy Software Updates'
- ✓ Updates kunnen eerder worden gedownload via wizard 'Download Software Updates'

# *Onderdelen Software Updates*

## Automatic Deployment Rules (ADR)

- = Automatiseren van downloaden en uitrollen van updates van Software Update Group
- ✓ Bevat standaard 2 templates (o.a. 'Patch Tuesday')



# Onderdelen Software Updates

## System Center Updates Publisher (SCUP)

- = Gratis stand-alone tool voor 3rd party software
- ✓ Importeren van software update catalogs
- ✓ Aanmaken/wijzigen van update definities
- ✓ Publiceren van update-informatie naar WSUS



SUP van ConfigMgr synchroniseert de informatie van WSUS-database naar de site database server

# *Software Update proces*

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## Fase 1

### Synchronisatie

# Software Update proces

= Proces waarbij metadata wordt opgevraagd a.d.h.v. opgegeven criteria

✓ Upstream WSUS-server of Microsoft Update

➔ Kan zowel automatisch als manueel gestart worden

✓ Automatisch      Synchronization Schedule

✓ Manueel      'Synchronize Software Updates' in ConfigMgr



# Software Update proces

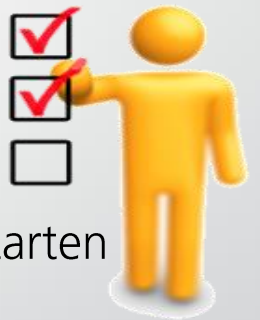
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Fase 2

Compliance

- ➔ Policy wordt gemaakt na synchronisatie  
 ➔ Clients kunnen locatie WSUS opvragen en scan starten
- ➔ Client krijgt policy ➔ Scan binnen de 2 uur
- ➔ Update Agent downloadt lijst van updates en scant computer op ontbrekende updates
- ➔ Compliance scan afgerond ➔ Resultaat doorgestuurd naar site server database



# Software Update proces

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Fase 3

Deployment

- ➔ A.d.h.v. compliance scan wordt bepaald welke updates nodig zijn
- ➔ Updates worden gedownload door deployment package
- ➔ Deployment policy gestuurd naar client
- ➔ Updates worden gedownload van Distribution Point en geïnstalleerd a.d.h.v. settings deployment package



# *Software Updates configureren*

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Software Updates Agent Client configureren

Installatie WSUS server

Opzetten Software Update Point

Synchronisatie van updates en aanpassen van instellingen

# Software Updates configureren

Software Updates Agent Client configureren

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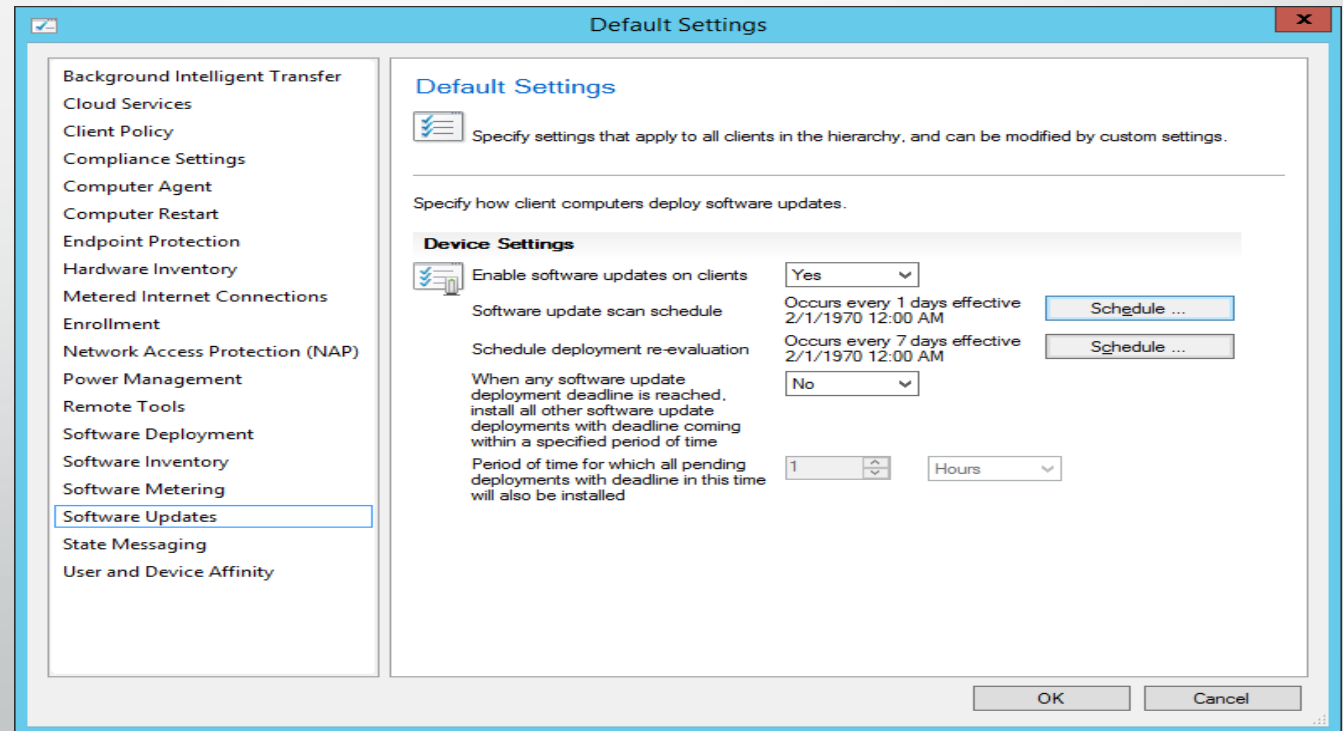
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Administration

> Overview

> Client Settings



The screenshot shows the 'Default Settings' window for the Software Updates Agent Client. The left sidebar lists various configuration categories, with 'Software Updates' selected. The main pane displays the 'Default Settings' for software updates, including a section for 'Device Settings' with options to enable updates, set scan schedules, and configure deployment deadlines.

**Default Settings**

Specify settings that apply to all clients in the hierarchy, and can be modified by custom settings.

Specify how client computers deploy software updates.

**Device Settings**

- Enable software updates on clients: ☒ Yes
- Software update scan schedule: Occurs every 1 days effective 2/1/1970 12:00 AM [Schedule ...](#)
- Schedule deployment re-evaluation: Occurs every 7 days effective 2/1/1970 12:00 AM [Schedule ...](#)
- When any software update deployment deadline is reached, install all other software update deployments with deadline coming within a specified period of time: No
- Period of time for which all pending deployments with deadline in this time will also be installed: 1 Hours

OK Cancel

# Software Updates configureren

## Installatie WSUS server

- ➔ Installatie WSUS via server Manager
  - ✓ Configuratie WSUS-website met poorten 8530 (HTTP) of 8531 (HTTPS) tijdens setup
- ➔ Installeer KB2734608 en KB2720211
- ➔ Herstart server na installatie WSUS en KB's



Configuratie WSUS **NIET** uitvoeren in WSUS-console



# Software Updates configureren

## Opzetten Software Update Point

- ➔ Voeg site system role 'Software Update Point' toe
  - ✓ Kies dezelfde poorten als tijdens de setup van WSUS
- ➔ Bepalen update source (andere upstream server of Microsoft Update)
- ➔ Configureren synchronisatieschema
- ➔ Configureren supersedence van updates
- ➔ Classificatie / producten / taal bepalen

Controleren...

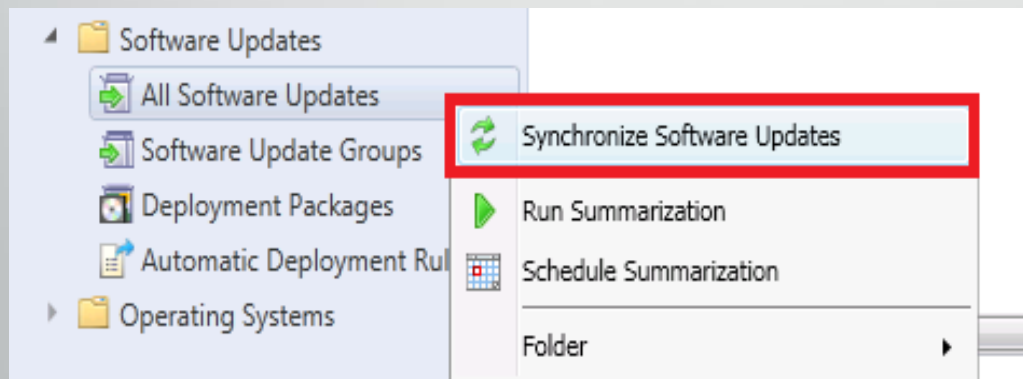
Installatieproces → SUPsetup.log

Connectie SUP-WSUS → WCM.log

# Software Updates configureren

Synchronisatie van updates en aanpassen van instellingen

- ➔ Initiële synchronisatie start na de setup van SUP
- ➔ Manuele synchronisatie via 'Synchronize Software Updates'

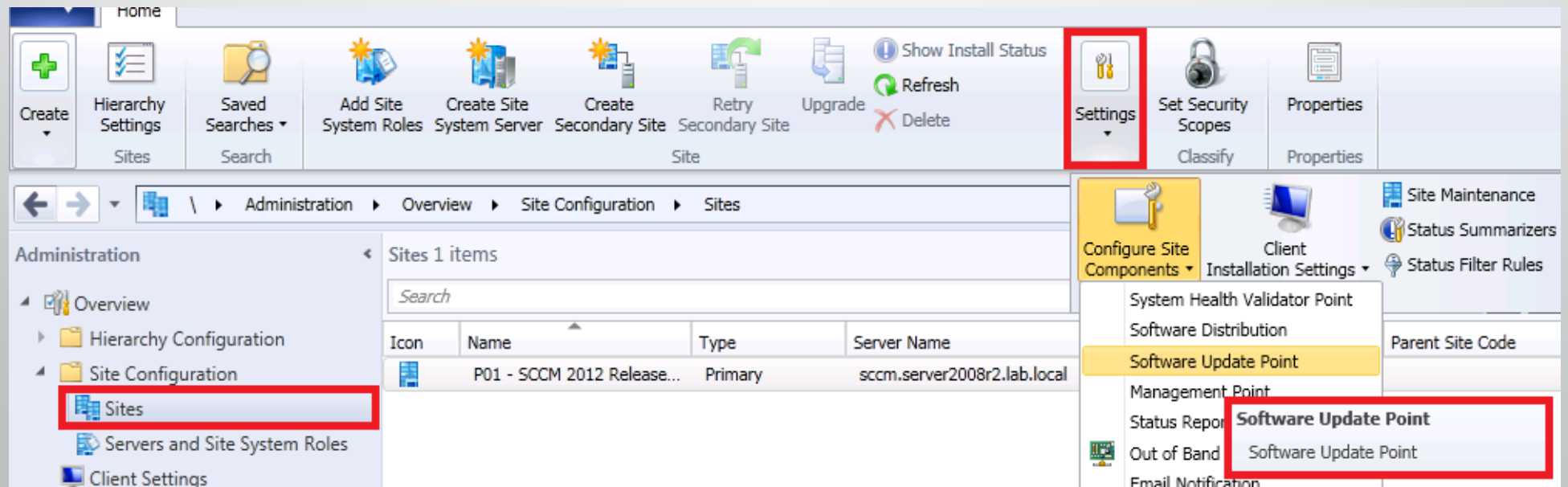


Controleren...

Synchronisatieproces → wsyncmgr.log

# Software Updates configureren

➔ Aanpassen van instellingen

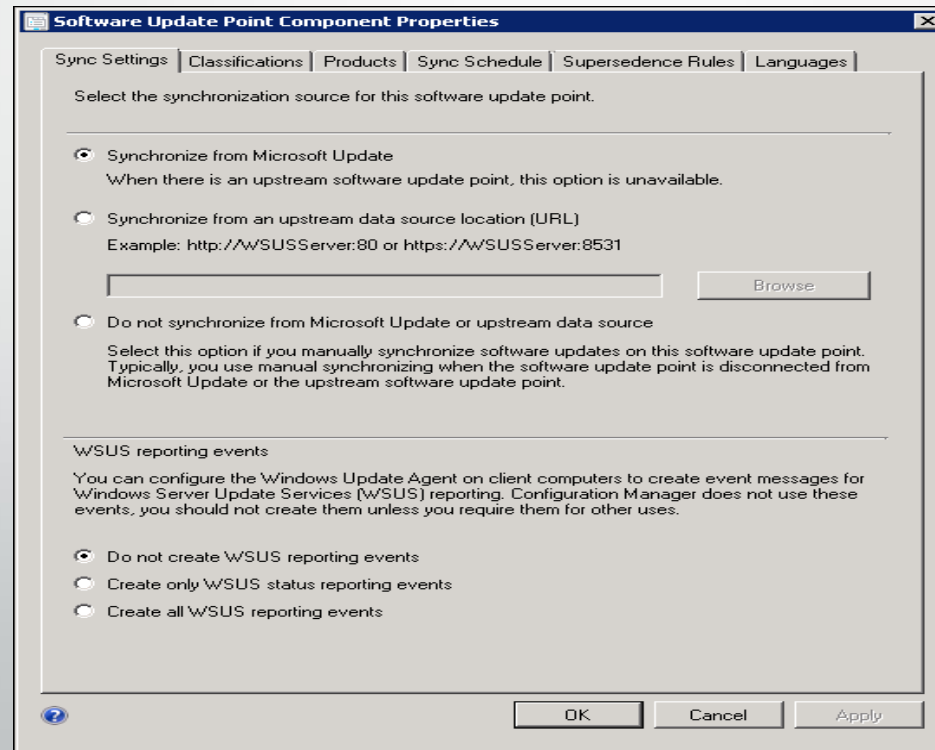


The screenshot shows the SCCM console interface. The left-hand navigation pane has 'Administration' expanded, with 'Site Configuration' and 'Sites' highlighted. The main pane shows the 'Sites' list with one item: 'P01 - SCCM 2012 Release...'.

Icon	Name	Type	Server Name
	P01 - SCCM 2012 Release...	Primary	sccm.server2008r2.lab.local

On the right, the 'Settings' button in the ribbon is highlighted. A dropdown menu is open, showing 'Configure Site Components' with a sub-menu containing 'Software Update Point'. This option is also highlighted in the sub-menu.

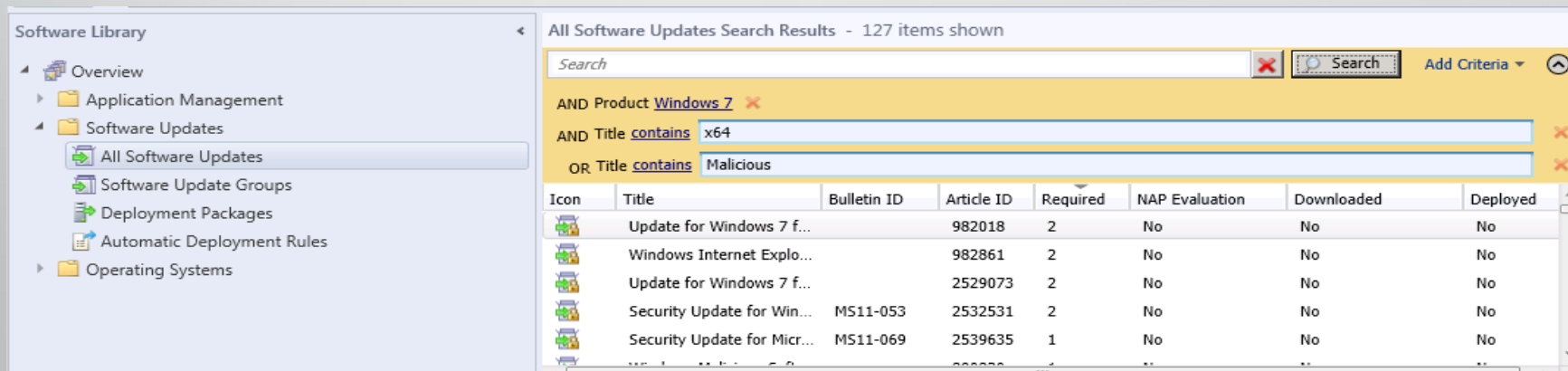
# Software Updates configureren



# Software Updates uitrollen

## Vorbereiden van deployment

- ✓ Updates vinden a.d.h.v. filters
- ✓ Eventueel downloaden van updates via wizard 'Download Software Updates'



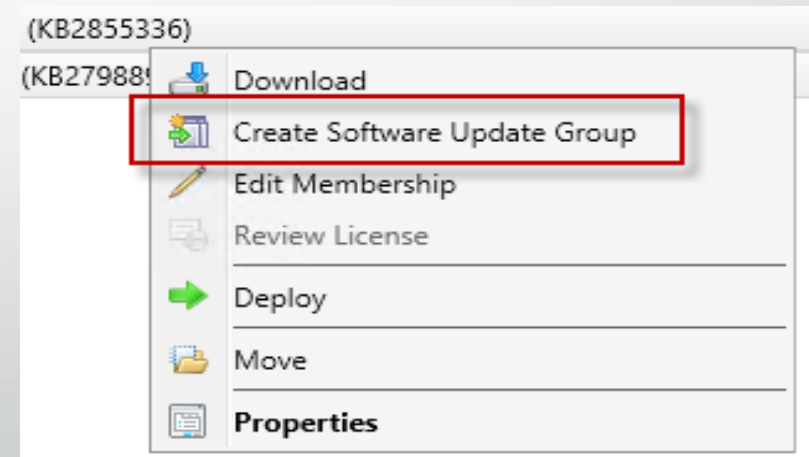
The screenshot shows the 'Software Library' console on the left and the 'All Software Updates Search Results' window on the right. The search criteria are: AND Product Windows 7, AND Title contains x64, and OR Title contains Malicious. The search results table is as follows:

Icon	Title	Bulletin ID	Article ID	Required	NAP Evaluation	Downloaded	Deployed
	Update for Windows 7 f...		982018	2	No	No	No
	Windows Internet Explo...		982861	2	No	No	No
	Update for Windows 7 f...		2529073	2	No	No	No
	Security Update for Win...	MS11-053	2532531	2	No	No	No
	Security Update for Micr...	MS11-069	2539635	1	No	No	No

# Software Updates uitrollen

## Software Update Group maken

- ✓ Geselecteerde updates groeperen tot een 'Software Update Group'



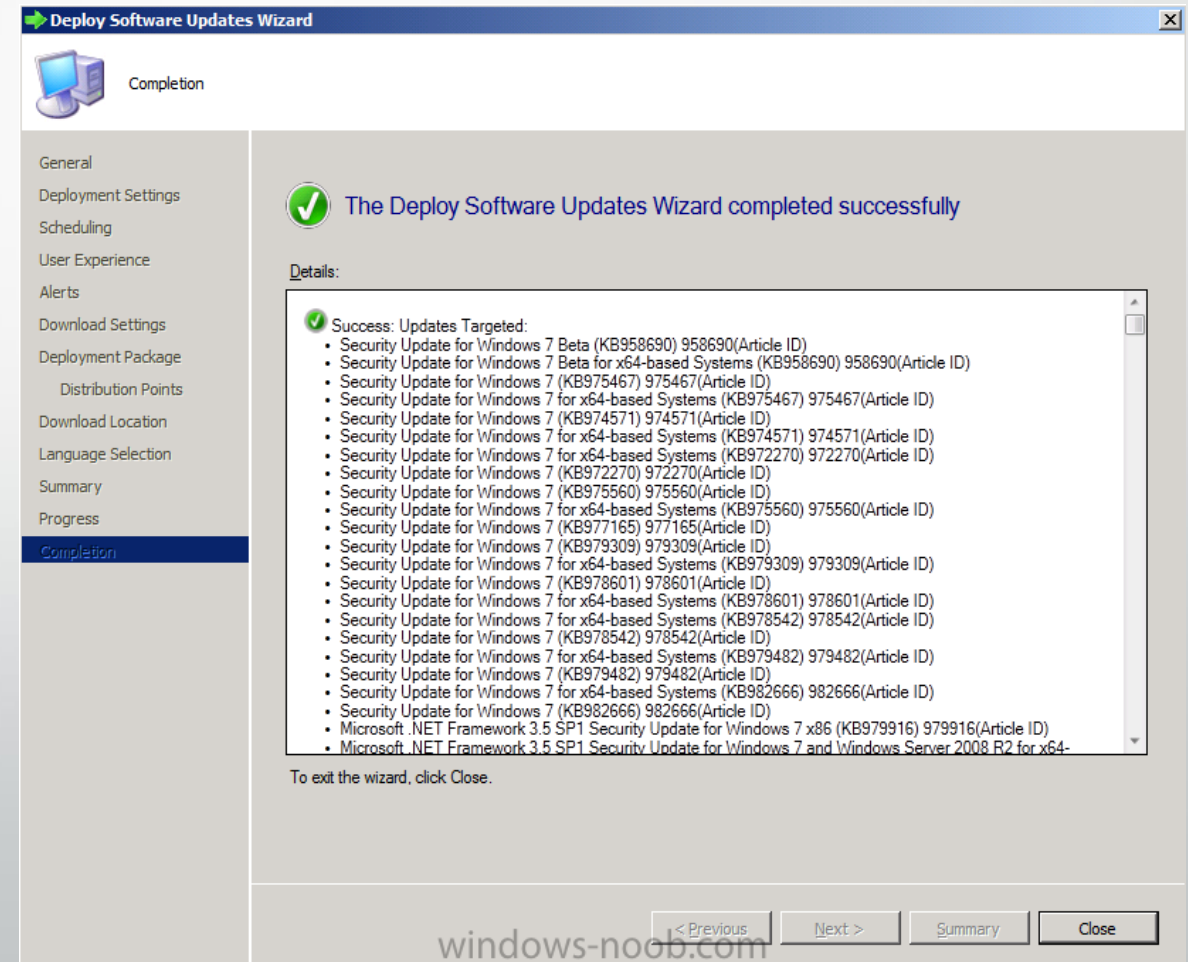
# Software Updates uitrollen

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## Deployment Software Updates

✓ Via wizard  
'Deploy Software Updates'



# *System Center Updates Publisher*

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- ➔ Stand-alone pakket
- ➔ Gaat dienen als database voor updates (zoals WSUS) van 3rd party producten



[Install and Configure System Center Updates Publisher \(prajwaldesai.com\)](http://prajwaldesai.com)





LAB – Software Updates

Practice  
Makes Perfect

