# Step by Step Guide to Upgrade SCCM 2012 R2 Environment to SCCM R2 SP1 and R2 SP1 CU2

In This guide we will perform upgrade on our existing SCCM 2012 R2 hierarchy and upgrade it to SCCM R2 SP1 and then apply R2 SP1 CU2.

• What's New in System Center 2012 R2 Configuration Manager SP1

Very nice explanation on new features by Benoit Lecours

#### List of new features:

#### **Sites and Hierarchies**

- Improvements to automatic client upgrade
- You can now exclude servers from automatic client upgrade

#### **Application Management**

- When you revise an application, the new revision now inherits all dependencies from the previous revision.
- Configuration Manager now lets you create supersedence relationships that can update dependent applications to a newer version.

#### **Content Management**

- Remote Differential Compression (RDC) is no longer used for every file during content distribution. As a best practice, it is now only used for files larger than 16KB.
- Pull-distribution points now have their own controls for concurrent distribution settings to multiple pull distribution points

#### **Operating System Deployment**

- You can now deploy Windows 10 to compatible devices in your hierarchy.
- Role based authentication can now be used for standalone media.
- Enhanced audit messages for operating system deployment.
- OS Installer Package renamed to OS Upgrade Packages.
- Task sequence USB media now supports larger than 32GB.

#### Reporting

• You can now specify a start and end date for the Distribution Point Usage Summary report

#### **Configuration Manager Company Portal App**

• The Configuration Manager Company Portal app allows users of client Windows 8, Windows 8.1 and Windows 10 devices to view and install applications that you make available

#### **Configuration Manager and Microsoft Intune**

- You can now manage Windows 10 and Windows 10 mobile devices that are enrolled with Microsoft Intune
- You can deploy iOS apps that are free of charge from the app store
- Conditional access to Exchange On-premises for mobile devices

#### For Complete Details Refer Below Links:

- SCCM 2012 SP2 and SCCM 2012 R2 SP1 Release announcement
- <u>Planning to upgrade to System Center 2012 Configuration Manager SP2</u>
- Planning to Upgrade System Center 2012 Configuration Manager

Download all the necessary files see Anoop c nair's Post and detail on which file to download

SC2012\_R2\_SP1\_Configmgr
SC2012\_SP2\_Configmgr\_SCEP

#### Order of Upgrade:

- CAS
- Primary
- Secondary Site
- Console Upgrades
- Client Upgrade

Start at the top-level site in the hierarchy, run the Setup.exe from the System Center 2012 R2 Configuration Manager Source media.

After top-level site completes the upgrade and replication is Active, you can **begin the upgrade of each child site**.

Complete the upgrade of each site before you begin to upgrade the next site.

Until all sites in your hierarchy upgraded to the new product version, your hierarchy operates in a mixed version mode.

#### Complete the Check list before proceeding to upgrade infrastructure:

#### Make a Note of:

- Server Names
- Location
- Virtual/Physical,
- Operating System
- RAM
- SQL Version
- NIC Details / Network Configurations
- Total Disk Drives
- Free and Used space

#### Prepare for Upgrade:

Ensure that Current and Complete Backup of all SCCM Site Servers is available to external Server Also verify followings and make a note of maintenanœ tasks schedule time, location of the backup with complete details.

#### SCCM 2012 R2 Upgrade Checklist: for complete check list refer <u>Technet</u> site

- 1. Verify that all your sites run on same version SCCM 2012 R2 CU4 in my case.
- 2. Apply all required patches on all Site Servers and Restart
- 3. Back up the site database.
- 4. If you have a database replica for management point, disable Database replication. If you don't use this function, skip this step
- 5. Disable all site maintenance tasks that might run during the upgrade
- 6. Test the database upgrade process on a copy of the most recent site database backup.
- 7. Uninstall the existing version of Windows Assessment and Deployment Kit (ADK) 8.0
- 8. Install Windows Assessment and Deployment Kit (Windows ADK) 10 for Windows 10 Download Windows ADK for Windows 10
- 9. Run Setup Prerequisite Checker, to verify that the site server is ready to upgrade.
- 10. Download the prerequisite files and redistributable files for SCCM 2012 R2 SP1 by running **setupdl.exe** on alternate location
- 11. Restart the site server and ensure that there are no pending restarts.
- 12. Install the SCCM 2012 R2 SP1 Upgrade on the CAS/Primary/Secondary Site Servers.
- 13. Verify Hierarchy / Sites, Logs and perform post upgrade activity
- 14. Create Collections for updating Clients, Consoles and Site Servers.
- 15. Upgrade the stand-alone Configuration Manager Consoles.
- 16. Reconfigure the database maintenance tasks you might have disabled prior to the upgrade.

#### 17. Upgrade Clients

#### Backup and TestUpgrade

- Perform a backup of your SCCM database.
- Perform Test DB Upgrade on your CM database before the upgrade, Recommended. More information on test db upgrade.
  - Backup SCCM site Database
  - Restore it on a SQL server running the same version as your SCCM SQL instance on another server
  - On the SQL server, run the SCCM setup command line using the **Testdbupgrade** switch
  - Open the log file on C:\ConfigMgrSetup.log
  - Ensure test DB upgrade is successful, if any errors, resolved them before you proceed with actual upgrade.



| Command Pro                                   | mpt 🔄                         |      | ¢ |
|---|-------------------------------|------|---|
| D:\SC2012_SP2_Configmgr_SCEP\SMSSETUP\BIN\X64 | >setup.exe ∕testdbupgrade CM_ | _CAS | ^ |
| D:\SC2012_SP2_Configmgr_SCEP\SMSSETUP\BIN\X64 | <b>`_</b>                     |      | - |
|   |                               |      |   |
|   |                               |      |   |

| Configuration Manager Trace Log Tool - [C:\ConfigMgr                      | Setup.log] |
|---|------------|
| 📔 File Tools Window Help  |            |
| 🛩 🗏 🎒 🖻 👭 🔲 📃   |            |
| Log Text  | Com        |
| INFO: Updating compliance policy categories                               | Configu    |
| INEO: Handle extension upgrade for original site version: 7958            | Configu    |
| INFO: Configuration Manager Setup has successfully upgraded the database. | Configu    |
| ======================================                                    | Configu    |

Once Test Database upgrade is successful. Proceed further with Actual upgrade.

#### Perform Installation

The SCCM R2 SP1 experience is like a new SCCM installation.

In our case, the site is already R2 so we extract the SC2012\_SP2\_Configmgr\_SCEP.exe to a folder and execute **Splash.hta** 

• On the main menu, select Install

|           | System Center Config                                 | guration Manager                   | - 🗆 X |
|-----------|--|------------------------------------|-------|
|           |  |                                    |       |
|           |  |                                    |       |
|           | Microsoft System Center                              |                                    |       |
|           | Configuration Manager                                |                                    |       |
|           | System Center 2012 Configuration Manager SP2         |                                    |       |
|           |  |                                    |       |
|           | I <u>n</u> stall                                     |                                    |       |
|           | 🕦 Restart may be required                            |                                    |       |
|           | 🔞 Be <u>f</u> ore you begin                          |                                    |       |
|           | Tools and Standalone Components                      | Additional Resources               |       |
|           | Assess server readiness                              | <u>R</u> elease Notes              |       |
|           | <u>G</u> et the latest Configuration Manager updates | Read Documentation                 |       |
|           | Install <u>Configuration Manager console</u>         | Obtain Installation Assistance     |       |
|           | Download System Center Updates Publisher             | Configuration Manager Community    |       |
|           | Download clients for additional operating systems    | Configuration Manager <u>H</u> ome |       |
|           |  | Browse the Installation Media      |       |
| © 2015 M  | licrosoft Corporation. All rights reserved           |                                    | Evit  |
| 0 2015 14 | ne over besperatoris de ligitas resertes.            |                                    |       |

• On the Before You Begin screen, click Next

|    | System Center Configuration Manager Setup Wizard  |  |  |
|----|---|--|--|
| R. | Before You Begin  |  |  |
|    | This wizard walks you through the steps necessary to install or upgrade Configuration Manager.<br>Setup also provides you with options to recover a site, perform site maintenance, and uninstall the site. |  |  |
|    | Before you run this wizard:   |  |  |
|    | 1. Verify that you have a supported Microsoft SQL Server installation available for Configuration Manager.  |  |  |
|    | 2. Identify the FQDN of the computer that is running Microsoft SQL Server.  |  |  |
|    | <ol> <li>Confirm that the computers for Configuration Manager site systems meet the minimum system<br/>requirements.</li> </ol>   |  |  |
|    | 4. Read the <u>release notes online</u> for important information and for links to supported versions and system requirements.  |  |  |
|    | WARNING: This program is protected by copyright law and international treaties.   |  |  |
|    | Unauthorized reproduction or distribution of this program, or any portion of it, may result in severe civil and criminal penalties, and will be prosecuted to the maximum extent possible under law.        |  |  |
|    | < Previous Next > Cancel  |  |  |

• On the Getting Started screen, select Upgrade this Configuration Manager site

| System Center Configuration Manager Setup Wizard   |
|--|
| Getting Started  |
| Available Setup Options<br>Setup has detected an existing central administration site on this computer.  |
| <ul> <li>Install a Configuration Manager primary site</li> <li>Use typical installation options for a stand-alone primary site</li> <li>Install a Configuration Manager primary site</li> <li>Use default installation path</li> <li>Configure local SQL Server with default settings</li> <li>Enable a local management point for Configuration Manager</li> <li>Enable a local distribution point for Configuration Manager</li> <li>Install a Configuration Manager central administration site</li> <li>Upgrade this Configuration Manager site</li> <li>Perform site maintenance or reset this site</li> <li>Uninstall this Configuration Manager site</li> </ul> |
| < Previous Next > Cancel   |

• On the Microsoft Software License Terms, check I accept these license terms and click Next

| System Center Configuration Manager Setup Wizard   |        |  |  |  |
|--|--------|--|--|--|
| Microsoft Software License Terms   |        |  |  |  |
|  | ^      |  |  |  |
| PLEASE NOTE: Your use of this software is subject to the terms and conditions<br>of the license agreement by which you (or your company) acquired the<br>Microsoft server software or gained access to the online service from<br>Microsoft. For instance, if you are: | =      |  |  |  |
| <ul> <li>a volume license customer or service provider, use of this software is<br/>subject to your volume license agreement or service provider license<br/>agreement;</li> </ul>   |        |  |  |  |
| <ul> <li>a MSDN customer, use of this software is subject to the MSDN license<br/>agreement;</li> </ul>  |        |  |  |  |
| <ul> <li>a customer that received the software separately from a hardware<br/>manufacturer or system builder, use of this software is subject to the<br/>license agreement with that part;</li> </ul>  |        |  |  |  |
| an online service customer, use of this software is subject to the online  | ~      |  |  |  |
| Print License Terms 🔽 I accept these license terms.  |        |  |  |  |
| < Previous Next >  | Cancel |  |  |  |

• On the Prerequisite Licenses, check all 3 boxes and click Next

| System Center Configuration Manager Setup Wizard  |  |  |  |
|---|--|--|--|
| Prerequisite Licenses   |  |  |  |
|   |  |  |  |
| During Setup, Configuration Manager will download and store the following software on the site server and then automatically install the software on the site systems or client computers as required. See the <u>Configuration Manager Privacy Statement</u> for more information. |  |  |  |
| Microsoft SQL Server 2012 Express   |  |  |  |
| View the Microsoft SQL Server 2012 Express License Terms  |  |  |  |
| ✓ I accept these License Terms  |  |  |  |
| Microsoft SQL Server 2012 Native Client   |  |  |  |
| View the Microsoft SQL Server 2012 Native Client License Terms  |  |  |  |
| ✓ I accept these License Terms  |  |  |  |
| Microsoft Silverlight 5   |  |  |  |
| This software will automatically update after installation.   |  |  |  |
| View the Microsoft Silverlight 5 License Terms online   |  |  |  |
| View the Microsoft Silverlight 5 Privacy Statement online   |  |  |  |
| View security and privacy information online for Silverlight 5 and elevated trust mode  |  |  |  |
| ✓ I accept these License Terms and automatic updates of Silverlight   |  |  |  |
| < Previous Next > Cancel  |  |  |  |
|   |  |  |  |

• On the Prerequisite Downloads screen, specify a location to download the prerequisite files or select alternate path where prerequisite files were downloaded offline.

| System Center Configuration Manager Setup Wizard   |    |  |  |  |
|--|----|--|--|--|
| Prerequisite Downloads   |    |  |  |  |
| Setup requires prerequisite files. Setup can automatically download the files to a location that you specify, or you can use files that have been downloaded previously. |    |  |  |  |
| O Download required files  |    |  |  |  |
| Example: \\ServerName\ShareName or C:\Downloads Path: Browse   |    |  |  |  |
| Use previously downloaded files  |    |  |  |  |
| Example: \\ServerName\ShareName or C:\Downloads Path: E:\SCCM-R2SP1-PreReq Browse  |    |  |  |  |
| < Previous Next > Canc   | el |  |  |  |

• The prerequisite files are being verified

|                            | System Center Configuration Manager Setup Wizard  |                                   |         |
|----------------------------|---|-----------------------------------|---------|
| Prerequisite D             | Downloads   |                                   |         |
|                            |   |                                   |         |
| Setup requ<br>use files th | ires prerequisite files. Setup can automatically download the files to a location that<br>at have been downloaded previously. | t you specify, or y               | you can |
| O Dowr                     | Configuration Manager Setup Downloader  | X                                 |         |
|                            |   |                                   |         |
| Path:                      | Verifying downloaded prerequisite components  | 6 of 15 files                     | wse     |
| ⊙ Use p                    |   |                                   |         |
|                            |   |                                   |         |
| Path:                      |   | Cancel                            | owse    |
| L.                         |   | Cancel                            |         |
|                            |   |                                   |         |
|                            |   |                                   |         |
|                            |   |                                   |         |
|                            | < Previous  | Next >                            | Cancel  |
| Path:<br>Use p<br>Path:    | Verifying downloaded prerequisite components  | 6 of 15 files<br>Cancel<br>Next > | owse    |

• On the **Server Language Selection** screen, select the language you want to display in the SCCM Console and Reports

| System Center Configuration Manager Setup Wizard |   |   |   |        |  |
|--|---|---|---|--------|--|
| Server Language Selection                        |   |   |   |        |  |
|  |   |   |   |        |  |
| Selec  | t the server languages that Configuration Manage  | er displays in the Configurati                                | on Manager console and re                                   | ports. |  |
| Conf   | iguration Manager installs support for the languager that runs the Configuration Manager console or | ges that you select and uses<br>reports. English is the defau | the display language of the<br>It language and it is used w | hen    |  |
| Conf   | iguration Manager does not support the display la   | anguage.  |   |        |  |
| You  | an modify the server languages if you run Setup   | again and select the Site Mai                                 | ntenance option.  |        |  |
| Curr   | ently Supported Languages:  |   |   |        |  |
|  | Name  | Availability  | State   | ^      |  |
|  | Chinese (Simplified)  | Downloaded  | Not Installed   |        |  |
|  | Chinese (Traditional, Hong Kong SAR)  | Downloaded  | Not Installed   | =      |  |
|  | Chinese (Traditional, Taiwan)   | Downloaded  | Not Installed   |        |  |
|  | ] Czech   | Downloaded  | Not Installed   |        |  |
|  | Dutch   | Downloaded  | Not Installed   |        |  |
|  | English   | Not Downloaded  | Installed   |        |  |
|  | French  | Downloaded  | Not Installed   |        |  |
|  | German  | Downloaded  | Not Installed   |        |  |
|  | Hungarian   | Downloaded  | Not Installed   | ~      |  |
|  |   |   |   |        |  |
|  |   | < Previous  | Next >  | Cancel |  |

• On the Client Language Selection screen, select the language for SCCM Client

| System Center Configuration Manager Setup Wizard |  |                                |                            |        |
|--|--|--------------------------------|----------------------------|--------|
| Client Language Selection                        |  |                                |                            |        |
| -  |  |                                |                            |        |
|  |  |                                |                            |        |
| Select   | t the client languages for Configuration Manager t | to support.                    |                            |        |
| When<br>Mana                                     | you select a client language and it matches the d  | lisplay language of a client c | omputer, the Configuration | ner    |
| does   | not support the display language.                  |                                | , men coniguration mana    | 90.    |
| You c  | an modify the client languages if you run Setup a  | gain and select the Site Mair  | itenance option.           |        |
|  |  |                                |                            |        |
| Curre  | ently Supported Languages:                         |                                |                            |        |
|  | Name   | Availability                   | State                      | ^      |
|  | Chinese (Traditional, Taiwan)                      | Downloaded                     | Not Installed              |        |
|  | Czech  | Downloaded                     | Not Installed              | =      |
|  | Danish   | Downloaded                     | Not Installed              |        |
|  | Dutch  | Downloaded                     | Not Installed              |        |
| $\checkmark$                                     | English  | Not Downloaded                 | Installed                  |        |
|  | Finnish  | Downloaded                     | Not Installed              |        |
|  | French   | Downloaded                     | Not Installed              | ~      |
|  | able all languages for mobile device clients       |                                |                            |        |
|  | sole an anguages for mobile device clients         |                                |                            |        |
|  |  |                                |                            |        |
|  |  | < Previous                     | Next >                     | Cancel |
|  |  |                                |                            |        |

• On the **Settings Summary** screen, you will see that you are performing an Upgrade

| System Center Configuration Manager Setup Wizard  |   |                   |        |  |  |  |
|---|---|-------------------|--------|--|--|--|
| Setting   | Settings Summary  |                   |        |  |  |  |
|   | Setup will install Configuration Manager with the following settings. |                   |        |  |  |  |
|   | Settings:   |                   |        |  |  |  |
|   | Setup Component   | Component Details |        |  |  |  |
|   | Setup Type  | Upgrade           |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
|   |   |                   |        |  |  |  |
| To change these settings, click Previous. To apply the settings and start the installation prerequisite check, click<br>Next. |   |                   |        |  |  |  |
|   |   | < Previous Next > | Cancel |  |  |  |

The Prerequisite Check is running

There shouldn't be any errors since site is already installed and running

Wait for Prerequisite checking has completed and click on Begin Install

| System Center Configura   | ation Manager       | Setup Wizard                         |          |
|---|---------------------|--------------------------------------|----------|
| Prerequisite Check  |                     |                                      |          |
| Setup is checking for potential installation problems. If pr resolve them.                        | oblems are found,   | Setup will display details about he  | ow to    |
| Details:  |                     |                                      |          |
| Prerequisite  | Status              | System                               |          |
| Verify site server permissions to publish to Active Dire  | Warning             | SC12-CAS-01.XPOSURE.COM              |          |
| SQL Server process memory allocation  | Warning             | SC12-CAS-01.XPOSURE.COM              |          |
| Prerequisite checking has completed.  |                     |                                      |          |
|   |                     |                                      |          |
| Select an item to display details and information about h check results, see ConfigMgrPrereq.log. | ow to resolve the p | problem. For a listing of all prereq | uisite ^ |
|   |                     | R                                    | un Check |
|   |                     | < Previous Begin Install             | Cancel   |

The installation is in progress. The installation will run for about 30 to 45 minutes depending of your server specifications

Progress can be seen by clicking the View Log button or open the **ConfigMgrSetup.log** file on the C:\ drive

| System Center Configuration Manager Setup W | /izard                                |
|---|---------------------------------------|
| Upgrade                                     |                                       |
|   |                                       |
| Overall progress                            |                                       |
|   |                                       |
|   | Elapsed time: 00:20:38                |
|   |                                       |
| Setting up the SOL Server database          |                                       |
| Conving files                               |                                       |
| Installing SMS provider                     |                                       |
| Ø Installing registry                       |                                       |
| 🕑 Upgrading inbox                           |                                       |
| 🚭 Upgrading site control information        |                                       |
|   |                                       |
|   |                                       |
|   |                                       |
| View Log                                    |                                       |
| < Previou:                                  | s Next > Cancel                       |
|   | · · · · · · · · · · · · · · · · · · · |

• Wait for Core setup to complete and close the wizard

| System Center Configuration Manager Setup Wizard   |
|--|
| Upgrade  |
| Core setup has completed   |
| Elapsed time: 00:32:07   |
| 📢 Installing Database Notification Monitor   |
| 📢 Installing Site Control Manager  |
| 🜍 Installing Hierarchy Manager   |
| 🐳 Installing Inbox Manager   |
| 🔇 Installing boot image package  |
| 🔇 Installing Site Component Manager  |
| Creating program group   |
| You can close the wizard now. For a list of tasks to help you configure your site, see <u>Post-Setup Configuration</u><br><u>Tasks</u> in the Configuration Manager Documentation Library. |
| View Log   |
| < Previous Next > Close  |

### Verify the installation

Once the setup has completed, there's a couple of check that you can make to be sure the upgrade process was successful.

Detailed installation steps can be viewed in C:\ConfigMgrSetup.log file

| Configuration Manager Trace Lo  | g Tool - [C:\ConfigMgr    | Setup.log]            | _ □ >         | ĸ        |
|---|---------------------------|-----------------------|---------------|----------|
| 📔 File Tools Window Help  |                           |                       | _ 5           | ×        |
| 🛎 🗏 🎒 🖻 👭 🛛 📃   |                           |                       |               |          |
| Log Text  | Component                 | Date/Time             | Thread        |          |
| INFO: Configuration Manager console is being installed with "E:\Pr  | Configuration Manager Set | 11/28/2015 6:16:32 PN | 5980 (0x175C) | ^        |
| INFO: Uninstall Configuration Manager console before installing a   | Configuration Manager Set | 11/28/2015 6:16:32 PN | 5980 (0x175C) |          |
| INFO: AdminConsole will be deinstalled first for upgrade - "E:\Pro  | Configuration Manager Set | 11/28/2015 6:16:32 PN | 5980 (0x175C) |          |
| INFO: Configuration Manager console uninstallation completed su   | Configuration Manager Set | 11/28/2015 6:18:06 PN | 5980 (0x175C) |          |
| INFO: Configuration Manager console installation completed succ   | Configuration Manager Set | 11/28/2015 6:19:41 PN | 5980 (0x175C) |          |
| INFO: Configuration Manager console was reinstalled successfully.   | Configuration Manager Set | 11/28/2015 6:19:41 PN | 5980 (0x175C) |          |
| INFO: Creating SMS_PATH system environment variable   | Configuration Manager Set | 11/28/2015 6:19:41 PN | 5980 (0x175C) |          |
| INFO: Verifying inbox folder permissions  | Configuration Manager Set | 11/28/2015 6:19:41 PN | 5980 (0x175C) |          |
| INFO: SQL Connection succeeded. Connection: SMS ACCESS, Typ   | Configuration Manager Set | 11/28/2015 6:19:41 PN | 5980 (0x175C) |          |
| INFO: Successfully begin Automatic Updates detection task   | Configuration Manager Set | 11/28/2015 6:19:42 PN | 5980 (0x175C) |          |
| INFO: Configuration Manager Setup - CAS site upgrade completed.   | Configuration Manager Set | 11/28/2015 6:19:42 PN | 5980 (0x175C) |          |
| ~================ Completed Configuration Mana  | Configuration Manager Set | 11/28/2015 6:19:42 PN | 5980 (0x175C) | ~        |
| Date/Time:         11/28/2015 6:19:42 PM         Component:         Configuration           Thread:         5980 (0x175C)         Source: | n Manager Setup           |                       |               |          |
| INFO: Configuration Manager Setup - CAS site upgrade completed.   |                           |                       |               | <u>^</u> |

| Configuration Manager Trace Log Tool - [C:\ConfigMgrSetup.log]   |               |                       | _ 🗆 ×      |
|--|---------------|-----------------------|------------|
| File Tools Window Help   |               |                       | _ 8 ×      |
| 😂 🖳 🚑   🖻 🚧   🔢 📃  |               |                       |            |
| Log Text   | Component     | Date/Time             | Thread     |
| INFO: Failed to locate the exe path for icon Configuration Manager Documentation, skip it.             | Configuration | 11/28/2015 10:06:57 F | 3984 (0x 🔺 |
| INFO: Configuration Manager console is installed.  | Configuration | 11/28/2015 10:06:57 F | 3984 (0x   |
| INFO: Configuration Manager console is being installed with "C:\Program Files\Microsoft Configuration  | Configuration | 11/28/2015 10:06:57 F | 3984 (0x   |
| INFO: Uninstall Configuration Manager console before installing a new Configuration Manager console.   | Configuration | 11/28/2015 10:06:57 F | 3984 (0x   |
| INFO: AdminConsole will be deinstalled first for upgrade - "C:\Program Files\Microsoft Configuration M | Configuration | 11/28/2015 10:06:57 F | 3984 (0x   |
| INFO: Configuration Manager console uninstallation completed successfully.                             | Configuration | 11/28/2015 10:08:27 F | 3984 (0x   |
| INFO: Configuration Manager console installation completed successfully.                               | Configuration | 11/28/2015 10:09:39 F | 3984 (0x   |
| INFO: Configuration Manager console was reinstalled successfully.                                      | Configuration | 11/28/2015 10:09:39 F | 3984 (0x   |
| INFO: Creating SMS_PATH system environment variable  | Configuration | 11/28/2015 10:09:39 F | 3984 (0x   |
| INFO: Verifying inbox folder permissions   | Configuration | 11/28/2015 10:09:39 F | 3984 (0x   |
| INFO: SQL Connection succeeded. Connection: SMS ACCESS, Type: Secure                                   | Configuration | 11/28/2015 10:09:39 F | 3984 (0x   |
| INFO: Successfully begin Automatic Updates detection task  | Configuration | 11/28/2015 10:09:40 F | 3984 (0x   |
| INFO: Configuration Manager Setup - Primary site upgrade completed.                                    | Configuration | 11/28/2015 10:09:40 F | 3984 (0x   |
| ~======================== Completed Configuration Manager 2012 Server Setup - Upgrade                  | Configuration | 11/28/2015 10:09:40 F | 3984 (0x 👻 |
| Date/Time: 11/28/2015 10:09:40 PM Component: Configuration Manager Setup                               |               |                       |            |
| Thread: 3984 (0xF90) Source:   |               |                       |            |
| THEO, Conference in Management Sectors Delivery of the second decomplete d                             |               |                       |            |

INFO: Configuration Manager Setup - Primary site upgrade completed.

<u></u>

#### Verify from SCCM Console

- Open the SCCM Console→click on the upper left corner on the blue arrow → select About Configuration Manager
- The Console has been upgraded to SP1
  - A new addition is the Site version which was not available on this screen before

| 2 | About System Center Configuration Manager  |
|---|--|
|   | Microsoft System Center<br>Configuration Manager   |
|   | System Center 2012 R2 Configuration Manager SP1<br>Console version: 5.0.8239.1000<br>Site version: 5.00.8239.1000  |
|   | © 2015 Microsoft. All rights reserved.<br>This program is licensed.<br>Warning: This computer program is protected by copyright law<br>and international treaties. Unauthorized reproduction or<br>distribution of this program, or any portion of it, may result in<br>severe civil and criminal penalties, and will be prosecuted to the<br>maximum extent possible under the law. |
|   | ОК   |

#### **Site Properties**

- Go to Administration → Site Configuration → Sites
- Right-click your site and select **Properties**
- The Site Version and Build Numbers has been upgraded to 5.00.8239.1000
- Site Build Number and Version

| istration | • (     | Overview 🔸 Site Co    | nfiguration + Sites |              |                |                         |         |
|-----------|---------|-----------------------|---------------------|--------------|----------------|-------------------------|---------|
| <         | Sites ! | Search Results - 2 it | ems shown           |              |                |                         |         |
|           | CAS     |                       |                     |              |                | 🗙 🔎 Sear                | rch Ada |
|           | lcon    | Name                  | Type                | Build Number | Version        | Server Name             | State   |
|           | age -   | CAS - CAS - Xpo       | sure Central admini | 8239         | 5.00.8239.1000 | SC12-CAS-01.XPOSURE.COM | Active  |

| CAS - CAS - Xposure Sin |  |
|-------------------------|--|
| 4 <b>2</b>              |  |
| Comment:                |  |
|                         | ×  |
| Туре:                   | Central administration site                      |
| Parent site:            | None   |
| Version:                | 5.00.8239.1000                                   |
| Build number:           | 8239   |
| Site server:            | SC12-CAS-01.XPOSURE.COM                          |
| Installation directory: | E:\Program Files\Microsoft Configuration Manager |
| SQL Server computer:    | SC12-CAS-01.XPOSURE.COM                          |
| SMS Provider location:  | SC12-CAS-01.XPOSURE.COM                          |

Site has been upgraded successfully. Wait for replication to be active, verify the replication status, site component status and run exec **SpDiagDRS** to verif y whether everything looks good.

#### Performing Upgrade on Secondary Site:

Secondary site can be upgraded from SCCM Console itself. To upgrade select the Secondary site from SCCM Console.

- Go to Administration → Site Configuration → Sites
- Right-click your **Secondary site** and right click and click on **Upgrade** or Select the site and from ribbon click on **Upgrade**



• On confirmation, click on Ok to start the upgrade process

| Configura | ition Manager  | X |
|-----------|--|---|
| 4         | You have chosen to upgrade secondary site SEC. This action will<br>upgrade the database and server components on server<br>SC12-SEC01.XPOSURE.COM and will uninstall and reinstall all site<br>system roles within site SEC.<br>Do you want to continue? |   |
|           | Yes No   |   |

#### To view the install status:

- Go to Administration → Site Configuration → Sites
- Right-click your Secondary site and dick on Show Install Status

| SEC - Xposure - Secondary Site | Add Site System Roles     |
|--------------------------------|---------------------------|
|                                | Create Site System Server |
|                                | Create Secondary Site     |
|                                | Retry Secondary Site      |
|                                | Recover Secondary Site    |
|                                | 4 Upgrade                 |
|                                | Show Install Status       |
|                                | 😱 Refresh                 |
|                                | × Delete                  |

| ilter                    |              |        |   |
|--------------------------|--------------|--------|---|
| lîme Stamp 🔻             | Туре         | Status | Description   |
| 🖉 11/28/2015 11:26:24 PM | l Bootstrap  | Passed | Decompress secondary site server installation files                 |
| 🖉 11/28/2015 11:26:24 PM | Bootstrap    | Passed | Secondary site server bootstrap installation service initiation suc |
| 🖉 11/28/2015 11:26:24 PM | Bootstrap    | Passed | Initiate secondary site server bootstrap installation service       |
| 🖉 11/28/2015 11:26:24 PM | Bootstrap    | Passed | Initiate secondary site server bootstrap installation service       |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Prerequisite checks complete  |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Verifies that the user running Setup has local administrator right  |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Verifies that Internet Information Services (IIS) is configured for |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Verifies that the Microsoft Core XML Services (MSXML) version       |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Verifies that the operating system meets the minimum requireme      |
| 🖉 11/28/2015 11:22:50 PM | Prerequisite | Passed | Checks to see if there is an earlier version of the Configuration   |
| 🖉 11/28/2015 11:22:39 PM | Prerequisite | Passed | Verifies that the machine account of site server has administrati   |
| 🖉 11/28/2015 11:22:39 PM | Prerequisite | Passed | Checks if the Windows Firewall is disabled or if a relevant Wind    |

| Filter                   |              |        |   |
|--------------------------|--------------|--------|---|
| Time Stamp 🔻             | Туре         | Status | Description   |
| 🕑 11/28/2015 11:20:54 PM | Prerequisite | Passed | Verifies that the Microsoft Remote Differential Compression (RD   |
| 🔮 11/28/2015 11:20:54 PM | Prerequisite | Passed | Verifies that the Microsoft Core XML Services (MSXML) version     |
| 🔮 11/28/2015 11:20:54 PM | Prerequisite | Passed | Checking Site Server FQDN Length.                                 |
| 🔮 11/28/2015 11:20:54 PM | Prerequisite | Passed | Checking unsupported Read-Only Domain Controller on site ser      |
| 🕑 11/28/2015 11:20:54 PM | Prerequisite | Passed | Checks if a system restart is pending.                            |
| 🕑 11/28/2015 11:20:54 PM | Prerequisite | Passed | Checks that the site server computer has sufficient available dis |
| 🕑 11/28/2015 11:20:54 PM | Prerequisite | Passed | Verifies that the computer specified for installation is a member |
| 🕑 11/28/2015 11:20:54 PM | Prerequisite | Passed | Verifies that the site server operating system meets the minimum  |
| 🔮 11/28/2015 11:20:54 PM | Prerequisite | Passed | Check Server Service (LanmanServer) is running.                   |
| V 11/28/2015 11:20:53 PM | Prerequisite | Passed | Verifies that the site server computer account has administrativ  |
| 11/28/2015 11:20:45 PM   | Prerequisite | Passed | Begin prerequisite checks   |
| Jescription:             |              |        |   |

Detailed installation steps can be viewed in C:\ConfigMgrSetup.log file on secondary site server

| 🔚 Configuration Manager Trace Log Tool - [C:\ConfigMgrSetup.lo_]         |                             |                        |              |   |  |
|--|-----------------------------|------------------------|--------------|---|--|
| File Tools Window Help   |                             |                        |              |   |  |
| 😅 🗏 🎒 🖻 📕 🔲 🚍  |                             |                        |              |   |  |
| Log Text   | Component                   | Date/Time              | Thread       |   |  |
| INFO: Checking status of SharedAccess                                    | Configuration Manager Setup | 11/28/2015 11:42:43 Pl | 2060 (0x80C) | • |  |
| INFO: Verified that SharedAccess is running on \\SC12-SEC01.             | Configuration Manager Setup | 11/28/2015 11:43:15 Pl | 2060 (0x80C) |   |  |
| INFO: Checking status of iphlpsvc  | Configuration Manager Setup | 11/28/2015 11:43:15 Pl | 2060 (0x80C) |   |  |
| INFO: Verified that iphlpsvc is running on \\SC12-SEC01.                 | Configuration Manager Setup | 11/28/2015 11:43:16 Pl | 2060 (0x80C) |   |  |
| INFO: Configuration Manager Setup full version is 5.00.8239.1000         | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| INFO: Deleting Inbox Rules registry key.                                 | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| INFO: Creating Inbox Source registry key                                 | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| INFO: Verifying inbox folder permissions                                 | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| INFO: SQL Connection succeeded. Connection: SMS ACCESS, Type: Secure     | Configuration Manager Setup | 11/28/2015 11:43:16 Pl | 2060 (0x80C) |   |  |
| INFO: send message 0x00050051 to parent                                  | Configuration Manager Setup | 11/28/2015 11:43:16 Pl | 2060 (0x80C) |   |  |
| INFO: Automatic Updates detection task was called - IAutomaticUpdates->D | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| INFO: Configuration Manager Setup - secondary site upgrade completed.    | Configuration Manager Setup | 11/28/2015 11:43:16 Pt | 2060 (0x80C) |   |  |
| INFO: send message 0x00050002 to parent                                  | Configuration Manager Setup | 11/28/2015 11:43:16 P  | 2060 (0x80C) |   |  |
| <11-28-2015 23:43:18> ************************************               |                             |                        |              |   |  |
| Date/Time: 11/28/2015 11:43:16 PM Component: Configuration Ma            | anager Setup                |                        |              |   |  |
| Thread: 2060 (0x80C) Source:   | - ·                         |                        |              |   |  |
| INFO: Configuration Manager Setup - secondary site upgrade completed.    |                             |                        | 4            | ] |  |

Verify the same in SCCM Console and Site Properties

|   | Search     |                      |                 |              |                | 🗙 🔎 Search              | A |
|---|------------|----------------------|-----------------|--------------|----------------|-------------------------|---|
|   | lcon       | Name                 | Туре            | Build Number | Version        | Server Name             | S |
|   | <b>ф</b>   | CAS - CAS - Xposure  | Central admini. | 8239         | 5.00.8239.1000 | SC12-CAS-01.XPOSURE.COM |   |
| - | 1          | XPO - Xposure - Prim | Primary site    | 8239         | 5.00.8239.1000 | SC12-PR01.XPOSURE.COM   |   |
|   | <b>B</b> 1 | SEC - Xposure - Seco | Secondary site  | 8239         | 5.00.8239.1000 | SC12-SEC01.XPOSURE.COM  |   |

CAS, Primary and all other Sites have been upgraded successfully. Wait for replication to be active, verify the replication status, site component status and run exec **SpDiagDRS** to verify whether everything looks good.

#### Step-by-Step SCCM 2012 R2 SP1 Cumulative Update 2 (CU2) Installation guide

Cumulative Update 2 (CU2) for SCCM 2012 R2 SP1 and SCCM 2012 SP2 is Now Available

#### Download the CM12\_SP2R2SP1CU2-KB3100144-X64-ENU and extract locally.



As this is a cumulative update, CU2 can be installed without installing the CU1.

There are many Issues that are fixed in CU2: Refer Link for more details

This update contains fixes for issues in various areas including software distribution and content management; operating system deployment; site systems and mobile device management.

In addition, the update contains the following:

#### **Administrator Console**

#### **Configuration Manager Client**

- Configuration Manager clients may not recognize a forest trust
- Automatic site assignment fails on clients in a workgroup
- In a Configuration Manager environment in which multiple certificates are deployed to client computers, the client may select the wrong certificate for use in management point communication

#### Site systems

• The SMS Executive Service may quit unexpectedly with a C0000374 exception code when it uploads content to a Cloud-based distribution point

#### **Operating system deployment**

• 3084586 Driver package size increases in System Center 2012 Configuration Manager

#### Software distribution and content management

#### Additional changes that is included in this update

**Endpoint Protection** 

#### Software distribution and content management

• Distribution Manager can now process pull-distribution point packages more efficiently in large environments.

#### Microsoft Intune and mobile device management

• This update contains general performance improvements to the device enrollment process in Intune hybrid environments.

#### The same update applies to the following:

- System Center 2012 Configuration Manager Service Pack 2
- System Center 2012 R2 Configuration Manager Service Pack 1

### Installation

This update can be applied directly to the following Systems/Roles:

- The Central Administration Site (CAS)
- Primary Site
- Secondary Site
- SMS Provider
- Configuration Manager Console

In this guide, we'll be updating a CAS / Primary Site Server, Console and Clients.

To start the installation, run CM12\_SP2R2SP1CU2-KB3100144-X64-ENU.exe

A log file will be created in C:\Windows\Temp\cm12\_sp2r2sp1cu2-kb3100144-x64-enu.log

• On the Welcome Screen, click Next

| 1                                     | Configuration  | Manager Update Installer  |  |
|---------------------------------------|--|---|--|
|                                       | Welcome to Configuration Manager Update Installer  |   |  |
| Cumulative<br>Update 2<br>(KB3100144) | This wizard performs the steps nece<br>Cumulative Update 2 for System Ce<br>Manager SP1 (KB3100144)<br>Before you proceed, you should re   | essary to install the following update:<br>nter 2012 Configuration Manager SP2 and System Center 2012 R2 Configuration<br>ad the <u>Deployment Guide</u> and review the <u>Privacy Statement</u> .  |  |
|                                       | You can apply this update<br>Central administration site<br>Primary site (Hierarchy)<br>Provider<br>This update contains update<br>Central administration site<br>Primary site (Hierarchy)<br>Provider<br>Client<br>The software updates in this up<br>download the latest clients for a | directly to the following:<br>Primary site (Standalone)<br>Secondary site<br>Configuration Manager console<br>stes for the following:<br>Primary site (Standalone)<br>Secondary site<br>Configuration Manager console<br>eddate package apply to Windows operating systems only. You can<br>additional operating systems from the <u>Microsoft Download Center</u> .<br>Next > Cancel |  |

• Accept the license agreement, and click Next

| 1                      | Configuration Manager Update Installer  |
|------------------------|---|
|                        | Microsoft Software License Terms  |
| Cumulative<br>Update 2 | By accepting the software license terms, you accept the license terms for Cumulative Update 2 for System Center 2012 Configuration Manager SP2 and System Center 2012 R2 Configuration Manager SP1 (KB3100144) and for each of its prerequisite software products.  |
| (KB3100144)            | License tems:   |
|                        | PLEASE NOTE: You may use any number of copies of this update or supplemental software<br>("Supplement") with your company's validly licensed Microsoft server software or online service<br>("Microsoft Product").<br>Refer to the Microsoft Product's license terms for additional use terms, to identify the entity<br>licensing this Supplement to you and for support information. You may not use the Supplement if<br>you, or your company, do not have a license for the underlying Microsoft Product. |
|                        | ✓ Laccept these license terms Print   |
|                        | < Previous Next > Cancel  |

• Ensure that there is no error, and dick Next.

| 1                                     | Configuration Manager Upda   | ate Installer   |                             | x  |
|---------------------------------------|--|---|-----------------------------|----|
| Í.                                    | Prerec   | juisite Check   |                             |    |
| Cumulative<br>Update 2<br>(KB3100144) | Action<br>Verifying update applicability.<br>Verifying restart is not required.<br>Verifying no active Configuration manager co<br>Verifying SQL connectivity. | Status<br>Successful<br>Successful<br>Successful<br>Warning | Details More                |    |
|                                       | One or more prerequisite checks returned a   | a waming.<br>Run ag<br>< Previous                           | ain View Log<br>Next > Canc | el |

• Check the box to update the console, click Next

| 3                       | Configuration Manager Update Installer                               |  |  |
|-------------------------|--|--|--|
|                         | Console Update Option  |  |  |
| Cumulative              | This update includes an update to the Configuration Manager console. |  |  |
| Update 2<br>(KB3100144) | ✓ Install the update for the Configuration Manager console           |  |  |
|                         |  |  |  |
|                         |  |  |  |
|                         |  |  |  |
| ATTERNA .               |  |  |  |
|                         | < Previous Next > Cancel   |  |  |

• Select Yes, update the site database, click Next

| 2                                     | Configuration Manager Update Installer  | X |  |  |
|---------------------------------------|---|---|--|--|
|                                       | Database Update   |   |  |  |
| Cumulative<br>Update 2<br>(KB3100144) | This update includes changes to the site database. Do you want to update the site database as part of this softwar<br>update? | e |  |  |
|                                       | For information on how to update the database manually, see <u>http://go.microsoft.com/fwlink/?</u><br>LinkID=234841          |   |  |  |
|                                       | < Previous Next > Cancel  |   |  |  |

• Check all 3 checkbox (Server, Console and Clients), click Next

| Configuration Manager Update Installer  |
|---|
| Deployment Assistance Options   |
| When this software update installation program runs on a site server, the installation program can create packages<br>that you can deploy to other Configuration Manager systems. |
| Select the systems to include in Configuration Manager packages  Site servers and computers that run the SMS Provider   |
| <ul> <li>✓ Configuration Manager consoles</li> <li>✓ Clients</li> </ul>   |
| For information on how to configure a deployment to update multiple sites in the hierarchy, see<br>http://go.microsoft.com/fwlink/?LinkID=234841                                  |
|   |
|   |
|   |
| < Previous Next > Cancel  |
|   |

• Select default on package name and program screen and dick Next

| 1           | Configura  | tion Manager Update Installer   |  |
|-------------|--|---|--|
|             | Update Package for Configuration Manager Servers |   |  |
| Cumulative  | Specify a name for the packa<br>Provider.        | age and program that installs updates for site servers and for computers that run the SMS |  |
| Update 2    | Package:   | CU2 KB3100144 - server update - CAS   |  |
| (KB3100144) | Program:   | Cumulative update 2 - server update   |  |
|             | Package Source:                                  | \\SC12-CAS-01.XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Server\x                               |  |
|             |  |   |  |
| <u>A</u>    |  |   |  |
|             |  |   |  |
| 1808        |  |   |  |
|             |  |   |  |
|             |  |   |  |
|             |  |   |  |
|             |  |   |  |
|             |  |   |  |
|             |  | < Previous Next > Cancel  |  |

Click Next

| <b>1</b>    | Configura   | tion Manager Update Installer   |  |  |
|-------------|---|---|--|--|
|             | Update Package for Configuration Manager Consoles |   |  |  |
| 1           | Specify a name for the packa                      | ge and program that installs updates for the Configuration Manager console. |  |  |
| Cumulative  | Package:  | CU2 KB3100144 - console update - CAS  |  |  |
| (KB3100144) | Program:  | Cumulative update 2 - console update install                                |  |  |
|             | Package Source:                                   | \\SC12-CAS-01.XPOSURE.COM\SMS_CAS\hotfix\KB3100144\AdminCc                  |  |  |
| N.          |   |   |  |  |
|             |   |   |  |  |
|             |   |   |  |  |
|             |   |   |  |  |
|             |   |   |  |  |
|             |   |   |  |  |
|             |   |   |  |  |
|             |   | < Previous Next > Cancel  |  |  |

• Click Next here too

| <b>S</b>                                | Configuration  | n Manager Update Installer 🛛 🗙   |  |  |
|---|--|--|--|--|
|   | Update   | Package for Configuration Manager Clients                                  |  |  |
| Cumulative                              | Specify a name for the package a   | nd program that installs updates for the x86 Configuration Manager client. |  |  |
| Update 2                                | Package (x86):   | CU2 KB3100144 - x86 client update - CAS                                    |  |  |
| (KB3100144)                             | Program (x86):   | Cumulative update 2 - x86 client update install                            |  |  |
|   | Package Source (x86):  | \\SC12-CAS-01.XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Cli                     |  |  |
|   | Specify a name for the package and program that installs updates for the x64 Configuration Manager client. |  |  |  |
| 0844                                    | Package (x64):   | CU2 KB3100144 - x64 client update - CAS                                    |  |  |
| ALC: ALC: ALC: ALC: ALC: ALC: ALC: ALC: | Program (x64):   | Cumulative update 2 - x64 client update install                            |  |  |
|   | Package Source (x64):  | \\SC12-CAS-01.XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Cli                     |  |  |
|   |  |  |  |  |
|   |  |  |  |  |
|   |  | < Previous Next > Cancel   |  |  |

• Review the Summary page and click Install

| <b>1</b>                              | Configuration Manager Update Installer   | x |
|---------------------------------------|--|---|
|                                       | Setup Summary  |   |
| Cumulative<br>Update 2<br>(KB3100144) | Details:         Cumulative Update 2 for System Center 2012 Configuration Manager SP2 and System Center 2012 R2 Configuration Manager SP1 (KB3100144)         More Information: http://support.microsoft.com/KB/3100144         Apply console update: configmgr2012adminui-sp2r2sp1kb31001444i386.msp         Includes SQL Script: Yes         Run SQL script during update installation: Yes         SQL Database: CM_CAS         Software Catalog: E:/Program Files/Microsoft Configuration Manager/hotfix/KB3100144/SCUP/3100144.cab         Deployment packages for clients will be created:         Prokage: CU2 KB3100144 - x64 client update - CAS         Program: Cumulative update 2 - x64 client update install         Package: Source: \\SC12-CAS-01 XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Client\x64         Package: CU2 KB3100144 - x66 client update - CAS         Program: Cumulative update 2 - x64 client update install         Package: Source: \\SC12-CAS-01 XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Client\x64         Package: CU2 KB3100144 - x86 client update install         Package: Source: \\SC12-CAS-01 XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Client\x64         Package: Source: \\SC12-CAS-01 XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Client\x64         Deployment backage for consoles will be created:         Package: Source: \\SC12-CAS-01 XPOSURE.COM\SMS_CAS\hotfix\KB3100144\Client\x68         Deployment backage for consoles will be created:         To change these settings, click | < |

• Installation is in progress

| 3            | Configuration Manager Upda                 | te Installer | ×             |  |  |  |  |  |
|--------------|--|--------------|---------------|--|--|--|--|--|
|              | Installation Progress                      |              |               |  |  |  |  |  |
| <i>¥</i>     | Details:                                   |              |               |  |  |  |  |  |
| Cumulative   | Action                                     | Status       | Details       |  |  |  |  |  |
| Cumulative   | Stop services                              | Successful   |               |  |  |  |  |  |
| Update 2     | Install files for update KB3100144         | Successful   |               |  |  |  |  |  |
| (KB3100144)  | Prepare database update script.            | Successful   |               |  |  |  |  |  |
| • •          | Perform Database Update                    | Successful   |               |  |  |  |  |  |
|              | Copy update installation files.            | Not started  |               |  |  |  |  |  |
|              | Apply Configuration Manager console update | Not started  |               |  |  |  |  |  |
|              | Create Software Update Catalog             | Not started  |               |  |  |  |  |  |
|              | Create console package                     | Not started  |               |  |  |  |  |  |
|              | Create x86 client package                  | Not started  |               |  |  |  |  |  |
|              | Create x64 client package                  | Not started  |               |  |  |  |  |  |
|              | Create server package                      | Not started  |               |  |  |  |  |  |
|              | Restart services                           | Not started  |               |  |  |  |  |  |
|              |  |              |               |  |  |  |  |  |
|              |  |              |               |  |  |  |  |  |
|              | <  | III          | >             |  |  |  |  |  |
| 94333        | Status: Running SQL operation 30 of 30     |              | View Log      |  |  |  |  |  |
| <u>ARADE</u> |  | < Previous   | Next > Cancel |  |  |  |  |  |

| 1                                     | Configuration Manager Upda  | ate Installer  | ×                      |  |  |  |  |  |  |
|---------------------------------------|---|--|------------------------|--|--|--|--|--|--|
|                                       | Installation Progress   |  |                        |  |  |  |  |  |  |
| 1                                     | Details:  |  |                        |  |  |  |  |  |  |
| Cumulative<br>Update 2<br>(KB3100144) | Action Stop services Install files for update KB3100144 Prepare database update script. Perform Database Update Copy update installation files. Apply Configuration Manager console update Create Software Update Catalog Create console package Create x86 client package Create server package Restart services | Status         Successful         Successful | Details                |  |  |  |  |  |  |
|                                       | Status: All tasks completed successfully.   | III<br>< Previous  | View Log Next > Cancel |  |  |  |  |  |  |

• When setup is complete, click Next and then Finish

| 3                       | Configuration Manager Update Installer  | x |  |  |  |  |  |  |  |
|-------------------------|---|---|--|--|--|--|--|--|--|
|                         | Installation Complete   |   |  |  |  |  |  |  |  |
| Cumulative              | Setup successfully installed Cumulative Update 2 for System Center 2012 Configuration<br>Manager SP2 and System Center 2012 R2 Configuration Manager SP1 (KB3100144). |   |  |  |  |  |  |  |  |
| Update 2<br>(KB3100144) | More information about this update  |   |  |  |  |  |  |  |  |
|                         |   |   |  |  |  |  |  |  |  |
|                         |   |   |  |  |  |  |  |  |  |
|                         |   |   |  |  |  |  |  |  |  |
|                         |   |   |  |  |  |  |  |  |  |
|                         |   |   |  |  |  |  |  |  |  |
|                         | < Previous Finish Cancel  | ] |  |  |  |  |  |  |  |

Installation progress can be seen in the C:\Windows\Temp\CM12\_SP2R2SP1CU2-KB3100144-X64-ENU.log file

| Configuration Manager Trace Log Tool - [C:\\cm12   | 2_sp2r2sp1cu2-kb3100144-x64-e       | enu.log] 🔄 🗖 🗙            |  |  |  |  |
|--|-------------------------------------|---------------------------|--|--|--|--|
| 👔 File Tools Window Help   |                                     |                           |  |  |  |  |
|  |                                     |                           |  |  |  |  |
| Log Text   | Component Date/Tim                  | e Thread                  |  |  |  |  |
| Service SMS_SITE_COMPONENT_MANAGER has started.  | Configuration Manager Up: 11/28/201 | 5 9:25:02 PN 1008 (0x3F0) |  |  |  |  |
| Starting service SMS_EXECUTIVE.  | Configuration Manager Up: 11/28/201 | 5 9:25:02 PN 1008 (0x3F0) |  |  |  |  |
| Service SMS_EXECUTIVE has started.   | Configuration Manager Up: 11/28/201 | 5 9:25:02 PN 1008 (0x3F0) |  |  |  |  |
| Starting service UALSVC.   | Configuration Manager Up: 11/28/201 | 5 9:25:02 PN 1008 (0x3F0) |  |  |  |  |
| Service UALSVC has started.  | Configuration Manager Up: 11/28/201 | 5 9:25:06 PN 1008 (0x3F0) |  |  |  |  |
| Starting service iphlpsvc.   | Configuration Manager Up: 11/28/201 | 5 9:25:06 PN 1008 (0x3F0) |  |  |  |  |
| Service iphlpsvc has started.  | Configuration Manager Up: 11/28/201 | 5 9:25:07 PN 1008 (0x3F0) |  |  |  |  |
| Service WINMGMT was stopped earlier but is running now.  | Configuration Manager Up: 11/28/201 | 5 9:25:07 PN 1008 (0x3F0) |  |  |  |  |
| Task 'Restart services' completed, state is 'passed'   | Configuration Manager Up: 11/28/201 | 5 9:25:07 PN 1972 (0x7B4) |  |  |  |  |
| Installation tasks completed.  | Configuration Manager Up: 11/28/201 | 5 9:25:07 PN 1972 (0x7B4) |  |  |  |  |
| Update Setup has completed successfully. Configuration Manager Up: 11/28/2015 9:25:07 PN 1972 (0 |                                     |                           |  |  |  |  |
|  |                                     | ×                         |  |  |  |  |
| Date/Time: 11/28/2015 9:25:07 PM Component: Configuration I                                      | Manager Update Installe             |                           |  |  |  |  |
| Thread: 1972 (0x784) Source:   |                                     |                           |  |  |  |  |
| Update Setup has completed successfully.   |                                     | ~                         |  |  |  |  |
|  |                                     |                           |  |  |  |  |
|  |                                     |                           |  |  |  |  |

### Verify the Installation

#### Verify from SCCM Console

- Open the SCCM Console → click on the upper left corner on the blue arrow → select About Configuration Manager
- The Console has been upgraded to SCCM R2 SP1 CU2

Successful upgrade will show the console build number **5.0.8239.1302** 

| 8 | About System Center Configuration Manager   |
|---|---|
|   | Microsoft   |
|   | Configuration Manager   |
|   | System Center 2012 R2 Configuration Manager SP1   |
|   | Console version: 5.0.8239.1302  |
|   | Site version: 5.00.8239.1000  |
|   | © 2015 Microsoft. All rights reserved.  |
|   | This program is licensed.   |
|   | Warning: This computer program is protected by copyright law<br>and international treaties. Unauthorized reproduction or<br>distribution of this program, or any portion of it, may result in<br>severe civil and criminal penalties, and will be prosecuted to the<br>maximum extent possible under the law. |
|   | ОК  |

#### **Registry Settings on Servers**

Open registry editor and check the HKLM\Software\Microsoft\SMS\Setup\Key "CULevel" value will be 2.

| <b>5</b> |              |                             |   | Registry Editor       |           |                     |
|----------|--------------|-----------------------------|---|-----------------------|-----------|---------------------|
| File E   | Edit View Fa | vorites Help                |   |                       |           |                     |
|          | 📕 S          | hared Tools Location        | ^ | Name                  | Туре      | Data                |
|          | ⊿-]) S       | MS                          |   | (Default)             | REG_SZ    | (value not set)     |
|          | Þ-J          | 47006C006F00620061006C0050  |   | 88 CULevel            | REG_DWORD | 0x00000002 (2)      |
|          | Þ            | 47006C006F00620061006C0050  |   | in Estimated Num      | REG_DWORD | 0x00000000 (0)      |
|          | Þ.           | Client                      |   | ab External File Dire | REG_SZ    | E:\PreReq           |
|          | Þ            | Components                  |   | ab Full Version       | REG_SZ    | 5.00.8239.1000      |
|          |              | Compression                 |   | ab Installation Dire  | REG_SZ    | E:\Program Files\Mi |
|          |              | DP                          |   | 11 InstalledSglExpr   | REG DWORD | 0x00000000 (0)      |
|          |              | DRW                         |   | ab Organization       | REG_SZ    |                     |
|          |              | Identification              |   | 18 Phase              | REG_DWORD | 0x000001c7 (455)    |
|          |              | Inbox Source                |   | ab PrerequisiteDir    | REG SZ    | E:\PreReg           |
|          | P -          | Languages                   |   | ab Product ID         | REG SZ    | NONEVAL             |
|          | D.           | MDEDM                       |   | ab Provider Location  | REG SZ    | SC12-CAS-01.XPOSU   |
|          |              | Operations Management       |   | ReplicationMode       | REG DWORD | 0x00000001 (1)      |
|          |              | Providers                   |   | ReplicationPhase      | REG DWORD | 0x0000000b (11)     |
|          |              | Security                    | _ | Server Platforms      | REG DWORD | 0x00000020 (32)     |
|          |              | Setup                       | = | Stop Setup Mon        | REG DWORD | 0x00000001 (1)      |
|          |              | SMS Performance Data Provid |   | 18 Type               | REG DWORD | 0x0000008 (8)       |
|          |              | SMS_DMP_CONNECTOR           |   | ab UI Installation Di | REG SZ    | E:\Program Files\Mi |
|          | Þ-           | SQL Server                  |   | ab UI Version         | REG SZ    | 8239                |
|          | Þ-           | SRSRP                       |   | ab User               | REG SZ    |                     |
|          |              | Task Sequence               |   | ab Version            | REG SZ    | 8239                |
|          | Þ-           | Tracing                     |   | -00                   |           |                     |
|          | Þ            | Triggers                    |   |                       |           |                     |
|          |              | 2112W                       | ~ | 21                    |           |                     |
|          | m            | >                           |   | < l                   | ш         |                     |

CAS, Primary and all other Sites have been upgraded successfully. Wait for replication to be active, verify the replication status, site component status and run exec **SpDiagDRS** to verify whether everything looks good.

#### **Distribute Packages**

Navigate to Software Library  $\rightarrow$  Packages  $\rightarrow$  Configuration Manager Updates

There will be four different packages for CU2 updates are created, proceed further and Update the contents to DPs.

| 4 💣 Overview                               | Search                  |   | X Search Add Crite |              |         |          |            |
|--|-------------------------|---|--------------------|--------------|---------|----------|------------|
| <ul> <li>Application Management</li> </ul> | lcon                    | Name                                    | Programs           | Manufacturer | Version | Language | Package ID |
| Applications                               |                         | CU2 KB3100144 - console update - CAS    | 1                  |              |         |          | CAS00006   |
| <ul> <li>Packages</li> </ul>               | 0                       | CU2 KB3100144 - server update - CAS     | 1                  |              |         |          | CAS00009   |
| Configuration Manager Updates              | 0                       | CU2 KB3100144 - x64 client update - CAS | 1                  |              |         |          | CAS00008   |
| Approval Requests                          | 0                       | CU2 KB3100144 - x86 client update - CAS | 1                  |              |         |          | CAS00007   |
| CC P. P                                    | No. of Concession, Name |   |                    |              |         |          |            |

Finally, use the packages to upgrade Client and Remote Consoles.

To Upgrade Clients, use below query to Create collections where client version is not equals to SCCM 2012 R2 SP1 CU2 and setup deployments for client upgrade.

select

SMS\_R\_SYSTEM.ResourceID,SMS\_R\_SYSTEM.ResourceType,SMS\_R\_SYSTEM.Name,SMS\_R\_SYSTEM.SMSUniqueIde ntifier,SMS\_R\_SYSTEM.ResourceDomainORWorkgroup,SMS\_R\_SYSTEM.Client from SMS\_R\_System where SMS\_R\_System.ClientVersion != '5.00.8239.1000'

Now we are done with Upgrading our SCCM hierarchy to SCCM 2012 R2 SP1 CU2

Note: Please perform the complete testing before proceeding with Production Environment Upgrade.