BACKUP AND RESTORE SCCM 2012 (R2) PRIMARY SITE

This document is intended to provide the understanding of the general case backup requirements of SCCM 2012 (R2), a sample backup strategy, and performing a restore of the site. Backing up the SCCM site process avoids loss of critical data ensuring that sites and hierarchies are restored with the least amount of data loss. Before the backup process is started on SCCM server, a few things should be kept in mind:

- SMS Writer service must be running for the process to complete successfully
- Backup schedule should be configured for an appropriate time that is outside active working hours to avoid any service disruptions.

The built-in Backup Site Server maintenance task performs backup of the following items:

- Configuration Manager Installation directory on site server
- NAL and SMS registry keys on the site server
- Master control file for the primary site
- Configuration Manager site database
- Information about the Content Library files

Some items are not saved automatically by the maintenance task and should be considered for inclusion in manual backup tasks. Items that are <u>NOT</u> backed up by the Backup Site Server maintenance automatically are:

- Package, Software, and Driver source files
- User State Migration Data (if applicable)
- Any custom reports and extensions used to create them (*if applicable*)
- The content library stored in the <SMS-Drive:>\SCCMContentLib folder



BACKUP SCCM 2012 (R2) SITE SERVER

To configure the built-in Backup Site Server maintenance task, launch the SCCM 2012 (R2) management console. On the bottom left of the screen, select the **Administration** tab and expand **Overview**, if not already expanded. Expand **Site Configuration**, select **Sites** and on the right plane click on the name of the primary site**. On the top toolbar click on **Site Maintenance**.

**Only backup of Central Administration Site OR Primary Site is supported. There is no backup support for Secondary Sites.

Home						
Add Site Create Site System Roles System Server Create Sites Search	d ch ch	ttings	Set Security Scopes Classify	Properties Properties		
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Cloud Services	PSD - F	uplic S	rhaal Dist	Primary site	SCCM-A-1 sch	ool.local
A G Site Configuration		2	Add Site Sy	stem Roles		
Sites		12	Create Site	System Server		
Servers and Site System Roles		1	Create Seco	ondary Site		
Client Settings		87	Retry Secor	idary Site		
Security		41	Recover See	condary Site		
Distribution Points		술	Upgrade			
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Software Library	Site Code:	G	Status Sum	marizers		
Monitoring	Server Name	-	Status Filter	Rules		
Administration	Build Numbe	r: A	Set Security	Scopes		
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This should open the **Site Maintenance** window and a list of pre-defined tasks should be seen. Right click on the task **Backup Site Server** and select **Edit**.

Site Maintenance		x
Configure the list of maintenance tasks for this site.		
Name	Enabled	~
Backup Site Server	No	
Check Application Title with Inventory Information	Yes	
🙀 Clear Install Flag	No	
🚮 Delete Aged Application Request Data	Yes	
Delete Aged Client Operations	Yes	
🚺 Delete Aged Client Presence History	Yes	_
🛃 Delete Aged Collected Files	Yes	=
Delete Aged Replication Summary Data	Yes	
🙀 Delete Aged Replication Tracking Data	Yes	
🔄 Delete Aged Software Metering Data	Yes	
🕍 Delete Aged Software Metering Summary Data	Yes	\sim
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On the **Backup Site Server Properties** window, select **Enable this task**. After enabling the task click on **Set Paths*** and browse to the location the backup files will be placed for the site server. Once the path is set, set the **Schedule** for the backup. Set the **Start after** and **Latest start time** as per your needs**. Select **Enable alerts for backup task failures.** Click on **Apply** and **OK**.

* If you set the path to a network share, Server Object must have Full Control to the Network Share and Folder Security.

**Recommended to schedule backups after hours. There is a minimum of 1 hour between Start and Latest Start.

Backup Site Server Properties	x	General	
General		This task backs up the site data	base and important site server information.
This task backs up the site database and important site server information.		Enable this task	Set Paths
✓ Enable this task Set Paths		Backup destination:	E:\SCCM_Backup
Backup destination:	•	Schedule	Monday
Set Backup Paths		Start after:	✓ Tuesday
Specify the locations to store the site data backup and site database backup. The site		12:00 AM	Wednesday
server machine account must have full control of the destination folder.			✓ Thursday
		Latest start time:	Friday
		1:00 AM	✓ Saturday
Destination Options			Sunday
 Local drive on site server for site data and database 		Enable alerts for backup task failures	
 Network path (UNC name) for site data and database 		For additional information about data no recovery process, see the product docu	t included in the Configuration Manager backup and mentation online.
O Local drives on site server and SQL Server			
Backup destination: E:\SCCM_Backup Browse d			OK Cancel Apply

This process will enable Backup Site Server maintenance task and schedule to run with the configured settings. If you saved the SCCM Backup files to the local hard drive, make sure you back it up to another location. In the next section we will discuss how to restore the site server.



RESTORE SCCM 2012 (R2) SITE SERVER

In Configuration Manager 2012 (R2) recovery from backup is part of the installation wizard. Before the recovery process is started make sure you have completed the following steps:

- Rebuilt the server with the same name, patched windows updates and joined to the domain
- Volume Drive letter and paths are consistent with the previous installation
- MS SQL Server instance is installed and running on the server (*if applicable*)
- Recover File system

19	Recovery Wizard	x
Confirmatio	201	
Getting Started	From backup: 5/12/2015 10:38 AM Recovery items:	
Select Backup Location Select Server Select Backup Date Select Recovery Type Select Items to Recover Specify Recovery Options Confirmation Recovery Progress	Recovery items: E:\Microsoft Configuration Manager E:\RemoteInstall E:\SCCMBackup E:\SCCMContentLib E:\SMS_CCM E:\SMS_SRSR E:\SMSPKG3 E:\SMSPKG3 E:\SMSPKG3 E:\SMSPKG3 E:\SMSIG5 E:\SMSIG5 E:\System Volume Information	
	Recovery destination: E:\ Recovery option: Overwrite with recovered files Security settings: Recover	
	< Previous Next > Recover Cancel]

To start the recovery process, run the **setup** from System Center Configuration Manager 2012 (R2) installation media on the target server. Click on **Install** on the initial welcome screen.



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On the Getting Started screen select Recover a site to recover the primary site.

	System Center 2012 R2 Configuration Manager Setup Wizard
Get	ting Started
	Available Setup Options
	Setup has not detected an existing installation of site server, site system, or Configuration Manager console on this computer.
	C Install a Configuration Manager primary site
	Use typical installation options for a stand-alone primary site
	- Use default installation path
	- Configure local SQL Server with default settings
	- Enable a local management point for Configuration Manager - Enable a local distribution point for Configuration Manager
	C Install a Configuration Manager central administration site
)	C Upgrade this Configuration Manager site
	Recover a site
	C Perform site maintenance or reset this site
	S Oninstali uns configuration manager site
	< Previous Next > Cancel

On the **Site Server and Database Recovery** screen browse to where the backup file location for both the Site Server backup and Site Database backup.

System Center 2012 R2 Configuration Manager Setup Wizard		
Site Server and Database Recovery Options		
You can recover a site server from an existing Configuration Manager backup set or reinstall the site server. If setup has detected an existing site installation on this computer, site server recovery settings are disabled.		
Recover this site server using an existing backup		
Example: \\Fileserver\Backupshare\XYZBackup or Z:\Backup\XYZBackup		
Path: E:\SCCMBackup\PSDBackup Browse		
C Reinstall this site server		
You can recover the site database from an existing Configuration Manager backup set or create a new database for this site. Alternatively, you can specify that the site database was manually recovered by using a different method, or you can skip database recovery when the site database was unaffected by the disaster.		
Recover the site database using the backup set at the following location:		
Example: \\Fileserver\Backupshare\XYZBackup or Z:\Backup\XYZBackup		
Path: E:\SCCMBackup\PSDBackup Browse		
C Create a new database for this site		
C Use a site database that has been manually recovered		
C Skip database recovery (Use this option if the site database was unaffected)		
< Previous Next > Cancel		

If the backup is valid, on the **Site Recovery Information** page the setup wizard will detect the primary site. Make sure that under **Recover Primary Site** option the Central Administration Site connection (CAS) field is blank if the primary site was not connected to any CAS previously

System Center 2012 R2 Configuration	n Manager Setup Wizard
Site Recovery Information	
When recovering a central administration site, you have the option authoritative source of data when you do not have an existing site b sites in the hierarchy. This option is disabled when Setup has detect When recovering a primary site, you have the option to specify the was previously connected. Leave this setting blank when the primar administration site. This option is disabled when Setup has detected site.	to specify a reference primary site to use as the backup and when conflicts occur between primary ed that you are recovering a primary site. central administration site to which the primary site y site was not previously connected to a central I that you are recovering a central administration
Select the type of site that you want to recover.	
Reference primary site (FQDN):	Example: Server1.contoso.com
Recover primary site	
Central administration site (FQDN):	Example: Server1.contoso.com
1	
	< Previous Next > Cancel

On the Product Key screen enter your SCCM Product License Key

System Center 2012 R2 Configuration Manager Setup Wizard
Product Key
 Install the evaluation edition of this product When you install the evaluation edition of this product, it is fully functional for 180 days. After installation, you can enter the product key from the Site Maintenance option in Setup to upgrade the evaluation edition to the licensed edition. Install the licensed edition of this product
< Previous Next > Cancel

On the next few screen Check "I accept these license terms" and click on **Next** until the **Prerequisites Download** screen.

System Center 2012 R2 Configuration Manager Setup Wizard	System Center 2012 R2 Configuration Manager Setup Wizard
rosoft Software License Terms	Prerequisite Licenses
MICROSOFT EVALUATION SOFTWARE LICENSE TERMS MICROSOFT EVALUATION SOFTWARE LICENSE TERMS MICROSOFT SYSTEM CENTER 2012 R2 STANDARD The conservation of the software and genemeth between Microsoft Corporation (or based on where you lices of the evaluation software named by uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it, if any. The terms also apply to any uncereved it. If you do not accept them, do not use the software. A the correlated below uncerevent the cofference show and concept the end. on on use it does not use the cofference show and the uncerevent its the software and the terms. Microsoft the uncerevent the cofference show and concept them, do not use it is accept thems the cofference show and the uncerevent its the software and the terms. Microsoft the uncerevent the cofference show and the uncerevent to the terms. Microsoft the uncervent terms. Microsoft the uncervent terms. Microsoft the uncervent terms and the uncervent terms. Microsoft te	During Setup, Configuration Manager will download and store the following software on the site server and then automatically install the software on the site system or client computers as required. See the configuration Manager Phracy Statement for more information. Microsoft SQL Server 2012 Capress with the Microsoft SQL Server 2012 Capress License Terms Microsoft SQL Server 2012 Native Client License Terms Microsoft Statement Microsoft Sta
< Previous Next > Car	cel < Previous Cancel

On the **Prerequisite Downloads** screen select **Download Required Files** and browse to an empty folder e.g. Downloads on the SCCM volume, so that additional required files can be downloaded, and click **Next**

	System Center 2012 R2 Configuration Manager Setup Wizard				
Prerequisite	e Downloads				
Setup re use files	equires prerequisite files. Setup can automatically download the files to a location that you specify, or you can that have been downloaded previously.				
© Dowr	nload required files				
Path:	Path: Example: \\ServerName\ShareName or C:\Downloads e:\downloads Browse				
O Use p	Configuration Manager Setup Downloader				
Path:	rowse				
	Downloading Server_CHT.cab 2 of 56 files				
	Cancel				

On the **Site and Installation Settings** screen notice that **Site code**, **Site name** information has already been filled from the backup files and cannot be edited. The **Installation Folder** can be edited and changed**.

******It is recommended to use the identical volume drive letter and path that was used before

System Center 2012 R2 Configuration Manager Setup Wizard				
Site and Installation Settings				
Specify a site code that uniquely identifies this Configuration Manager site in your hierarchy.				
Site code: PSD				
Specify a site name that helps to identify the site. Example: Contoso Headquarters Site				
Site name: Public School District Site				
Note: The site code must be unique in the Configuration Manager hierarchy and cannot be changed after you install the site.				
Installation folder: Et Microsoft Configuration Manager Browse				
Specify whether to install the Configuration Manager console to manage the Configuration Manager site from this computer. You can remotely manage the site when you do not install the Configuration Manager console.				
< Previous Next > Cancel				

On the **Database Information** screen everything should be left as default and click **Next.** On the **Prerequisites Check** screen click on **Run Check** to make sure all prerequisites pass and there are no errors. Click on **Begin Install** if the prerequisites check passed without errors.

System Center 2012 R2 Configuration Manager Setup Wizard	System Center 2012 R2 Configuration Manager Setup Wizard
Database Information	Database Information
and the second sec	
Configuration Manager primary sites require a Microsoft SQL Server database to store site settings and data. Specify the site database server details. The instance name that you use for the site database must be configured with a static TCP port. Dynamic ports are not supported. SQL Server ranke (FQON): Example: Server Loomoso.com SCCM-4-15choolDocal Instance name (Beave blank for default): Example: MyInstance Database name: Example: CM_XYZ CM_PSD Specify the TCP port number for SQL Server Service Broker. Configuration Manager uses Service Broker to replicate database name: Example: CM_XYZ CM_PSD Specify the TCP port number for SQL Server Service Broker. Configuration Manager uses Service Broker to replicate dataBase Park SQL Server service, which is automatically detected by Configuration Manager. Service Broker Dot	Specify the locations for the SQL Server data file and transaction log file. Path to the SQL Server data file OxMin:resold SQL Server MASSQL 11.MSSQL SERVER.MSSQL (DATA Browse.
System Center 2012 R2 Configuration Manager Setup Wizard	System Center 2012 R2 Configuration Manager Setup Wizard
Customer Experience Improvement Program	Settings Summary
Do you want to join the Customer Experience Improvement Program (CEIP)? The program collects information about computer hardware and how you use Configuration Manager, without interrupting you. This helps Microsoft to improve Configuration Manager features. No information collected is used to identify or contact you. Read the CEIP privacy statement online Read the privacy statement online ? Jain the Customer Experience Improvement Program ? Join the Customer Experience Improvement Program ? I don't want to join the program at this time	Setup vill install Configuration Manager with the following settings: Setup Setup Component Component Details Setup Type Primary site recovery Setup Component Details Setup Type Primary site recovery Setup Component Details Setup Component Primary site recovery Setup Component Details Setup Type Primary site recovery Setup Component Details Setup Component Details Primary site recovery Setup Component Details Setup Component Details Primary site recovery Setup Component Details Setup Component Details Primary site recovery Setup Component Details Primary Set recovery EVAL Installation Directory EVAL Installation Directory EVAL Setup Component Details Setup Component Details SQL Server SetUp Component Details Setup Component Details Setup Component Details Setup Component Details SQL Server SetUp Component Details QL Setup Component Details Setup Component Details Setup Component Details SQL Server data installation directory DivMicrosoft SQL Server/MISSQL11.MISSQLSE To change these settings, click Previous. To apply the settings an
< Previous Next > Cancel	< Previous Next > Cancel
System Center 2012 R2 Configuration Manager Setup Wizard	System Center 2012 R2 Configuration Manager Setup Wizard
Prerequisite Check	Install
Setup is checking for potential installation problems. If problems are found, Setup will display details about how to resolve them. Details: Details: SQL Server process memory allocation Warning SCCM-A-1school.local	Overall progress Bapsed time: 0000.49 Foaluating setup environment Foaluating and installing Configuration Manager dependencies Generating public key and SQL Server certificate
Prerequisite checking has completed. Select an item to display details and information about how to resolve the problem. For a listing of all prerequisite check results, see ConfigMgrPrereq.log.	View Log
< Previous Begin Install Cancel	< Previous Next> Cancel

Once the installation is done you will get the **Finished** screen. There will be a list **of Post-recovery actions** that will need to be addressed.

System Center 2012 R2 Configuration Manager Setup Wizard					
Finished					
Post-recovery actions You can find detailed information about the actions performed by the recovery process in ConfigMgrSetup.log. To complete the recovery of this site, you must manually complete the following actions not performed by Setup. 1. In the Configuration Manager console, re-enter the passwords for the following accounts.					
Accou	Account Name		Account Type		
SCHOOL\Administrator		SMS_CLIENT_CONFIG_MANAGER			
SCHOOL\sccm.admin		SMS SRS Reporting Point, SMS AD SECURITY GROUP DISCOVERY AGENT			
2. Reinstall the following hotfixes.					
Hotfix		URL	Language	Site Role	
2938441	http://support.microsoft.com/KB/2938441 PrimarySite				
3. For additional inform the product document This information has bee	nation about data not inc ation (<u>http://go.microsof</u> l n saved to C:\ConfigMgrl	luded in the Configuratior .com/fwlink/p/?Linkld=30 PostRecoveryActions.html	Manager backup and 2304). for later reference. < Previous	d recovery process, see	