

# Channels en Repositories in Spacewalk

Nadat je [een Spacewalk server hebt geïnstalleerd](#) moet je deze nog van channels voorzien.

Het verdient aanbeveling even goed na te denken over de layout van je channels.

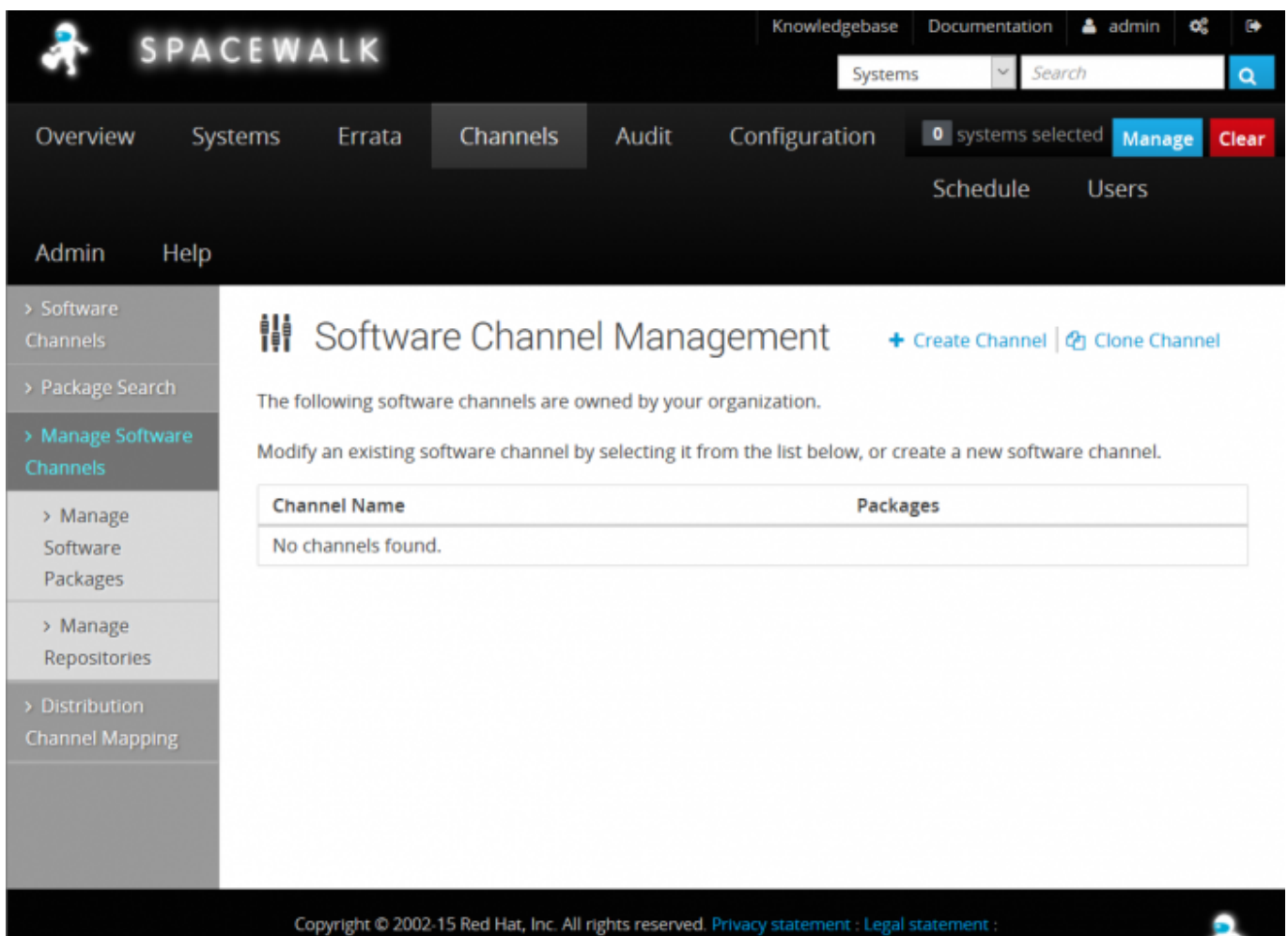
mijn setup ziet er zo uit :

```
centos_6-base
├─ centos_6-extras
├─ centos_6-updates
└─ epel_6

centos_7-base
├─ centos_7-extras
├─ centos_7-updates
└─ epel_7
```

## Base channel

Maak een base channel aan door in het boven menu **Channels** te kiezen en vervolgens in het zij menu **Manage Software Channels** en druk op het blauwe + **Create Channel**



The screenshot shows the Spacewalk web interface. The top navigation bar includes 'Knowledgebase', 'Documentation', 'admin', and a search bar. The main navigation menu has 'Overview', 'Systems', 'Errata', 'Channels', 'Audit', and 'Configuration'. The 'Channels' menu is active, showing '0 systems selected', 'Manage', and 'Clear' buttons. The left sidebar contains 'Admin' and 'Help' sections. The main content area is titled 'Software Channel Management' and includes a '+ Create Channel' and 'Clone Channel' link. Below the title, it states 'The following software channels are owned by your organization.' and 'Modify an existing software channel by selecting it from the list below, or create a new software channel.' A table with columns 'Channel Name' and 'Packages' is shown, containing the text 'No channels found.' The footer contains copyright information for Red Hat, Inc. and links to 'Privacy statement' and 'Legal statement'.

Vul de naam en label in, geen idee waarom er twee zijn, maar volgens de instructies moget er in geen van beide hoofdletters of spaties. Hou ze voor het gemak gelijk.

The screenshot shows the 'Create Software Channel' page in the Spacewalk web interface. The page has a dark header with the Spacewalk logo and navigation links like 'Overview', 'Systems', 'Errata', 'Channels', 'Audit', 'Configuration', 'Schedule', and 'Users'. A search bar is visible in the top right. The main content area is titled 'Create Software Channel' and 'Basic Channel Details'. It provides instructions on how to create or edit software channels, including requirements for channel names and labels. The form fields are as follows:

- Channel Name\*:** centos\_7-x86\_64
- Channel Label\*:** centos\_7-x86\_64
- Parent Channel:** None
- Architecture:** x86\_64
- Yum Repository Checksum Type:** sha1
- Channel Summary\*:** Base Channel for CentOS 7

A tip is provided for the checksum type: 'Tip: sha1 offers the widest compatibility with clients. sha-256 offers higher security, but is compatible only with newer clients: Fedora 11 and newer, or Enterprise Linux 6 and newer.'

Scroll naar beneden, daar moet de GPG informatie worden ingevuld waar de rpm's uit de repository mee gesigned zijn.

Je krijgt deze informatie het eenvoudigst door de gpg-key te downloaden naar een linux machine, de spacewalk server zelf is een prima optie aangezien in afgeschermdde omgevingen dit überhaupt de enige server is die met de repo server die als bron gekozen is kan communiceren.

installeer wget :yum install wget

haal de gpgkey op:

```
cd /tmp
```

```
wget
```

```
http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/os/x86_64/RPM-GPG-KEY-CentOS-7
```

en haal de nodige gegevens uit de key door:

```
gpg --with-fingerprint RPM-GPG-KEY-CentOS-7
```

de output ziet er ongeveer zo uit. Het gatal na de slash is het key ID

```
pub 4096R/F4A80EB5 2014-06-23 CentOS-7 Key (CentOS 7 Official Signing Key)
<security@centos.org>
    Key fingerprint = 6341 AB27 53D7 8A78 A7C2 7BB1 24C6 A8A7 F4A8 0EB5
```

[vul dit in en druk op](#) **Create Channel:**

## Channel Access Control

**Per-User Subscription Restrictions:**

- All users within your organization may subscribe to this channel.
- Only selected users within your organization may subscribe to this channel.

**Organization Sharing:**

- This channel is **private** and cannot be accessed by any other organization.
- This channel is **protected** and may only be accessed by specific [trusted organizations](#).
- This channel is **public** and may be accessed by any of the [trusted organizations](#) trusted by this organization.

### Security: GPG

**GPG key URL:**


**GPG key ID:**

Example: DB42A60E

**GPG key Fingerprint:**

Example: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E

[Create Channel](#)

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Spacewalk release 2.6 

nu is het tijd om een repository aan te maken, aan het channel te koppelen en te syncen met de upstream. kies in het zij menu **Manage Repositories** en druk rechts boven op **+Create Repository**

vul vervolgens de velden in en druk op **Create Repository**:

The screenshot shows the Spacewalk web interface. At the top, there is a navigation bar with the Spacewalk logo and the name 'SPACEWALK'. To the right of the logo are links for 'Knowledgebase', 'Documentation', and a user profile 'admin'. Below this is a search bar with 'Systems' selected and a search icon. The main navigation menu includes 'Overview', 'Systems', 'Errata', 'Channels', 'Audit', 'Configuration', '0 systems selected', 'Manage', and 'Clear'. Below the main menu are 'Schedule' and 'Users' links. On the left side, there is a sidebar menu with 'Admin' and 'Help' at the top, followed by a list of options: '> Software Channels', '> Package Search', '> Manage Software Channels', '> Manage Software Packages', '> Manage Repositories', and '> Distribution Channel Mapping'. The main content area is titled 'Create Repository' and contains the following form fields: 'Repository Label\*' with the value 'centos\_7-x86\_64-nluug', 'Repository URL\*' with the value 'http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/os/x86\_64/', 'Repository Type\*' with a dropdown menu showing 'yum', 'SSL CA Certificate:' with a dropdown menu showing 'None', 'SSL Client Certificate:' with a dropdown menu showing 'None', and 'SSL Client Key:' with a dropdown menu showing 'None'. There is also a 'Filters' text input field. Below the form is a tip: 'Tip: -zsh\*,kernel +zsh-html'. At the bottom of the form is a green 'Create Repository' button.

Vervolgt stap is de repository aan het channel koppelen. In **Manage Software Channels** klik op de channel waar de repository bij hoort, kies het tabblad **Repositories** selecteer de net gemaakte repository en druk op **Update Repositories**

centos\_7-x86\_64 repository information was successfully updated

### centos\_7-x86\_64

Delete software channel

Details Managers Errata Packages **Repositories**

Add / Remove Sync

#### Channel Repositories

Create a new repository

0 1 2 3 4 5 6 7 8 9 A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 - 2 of 2 (1 selected)

25 Items per page

<input type="checkbox"/>	Repository
<input type="checkbox"/>	centos_6.8-x86_64-nluug
<input checked="" type="checkbox"/>	centos_7-x86_64-nluug

Select All Unselect All

1 - 2 of 2 (1 selected)

Update Repositories

Vervolgens is het tijd om het channel te syncen met de upstream repository. Log in op de spacewalk server en doe:

```
spacewalk-repo-sync -c centos_7-x86_64
```

Dit kan overigens even duren.

```
07:15:26 =====
07:15:26 | Channel: centos_7-x86_64
07:15:26 =====
07:15:26 Sync of channel started.
07:15:26 Repo URL:
http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/os/x86_64/
07:15:29 Packages in repo:          9363
07:15:48 Packages already synced:    0
07:15:48 Packages to sync:           9363
```

```
07:15:48 1/9363 : 389-ds-base-1.3.5.10-11.el7-0.x86_64
07:16:19 2/9363 : 389-ds-base-devel-1.3.5.10-11.el7-0.x86_64
07:16:20 3/9363 : 389-ds-base-libs-1.3.5.10-11.el7-0.x86_64
...
...
14:30:07 9361/9363 : zziplib-devel-0.13.62-5.el7-0.x86_64
14:30:16 9362/9363 : zziplib-devel-0.13.62-5.el7-0.i686
14:30:18 9363/9363 : zziplib-utils-0.13.62-5.el7-0.x86_64
14:30:19 Linking packages to channel.
14:30:30 Repo http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/os/x86_64/
has comps file comps.xml.
14:30:30 Repo http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/os/x86_64/
has 0 errata.
14:30:30 Sync of channel completed in 7:15:04.
14:30:30 Total time: 7:15:04
```

Om de local channel up to date te houden moet je nog een synchronisatie instellen. Klik op **Manage Software Channels** kies het tabblad **Repositories** en daaronder **Sync**.

[Selecteer Sync only latest packages](#) en stel een dagelijkse sync rond 5:00AM in:





- > Software Channels
- > Package Search
- > **Manage Software Channels**
- > Manage Software Packages
- > Manage Repositories
- > Distribution Channel Mapping

# centos\_7-x86\_64

[Delete software channel](#)

Details Managers Errata Packages **Repositories**

Add / Remove [Sync](#)

## Channel Repositories

Last Sync Time

2017-02-11 20:30:30 CET

0 1 2 3 4 5 6 7 8 9 | A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

1 - 1 of 1

25 items per page

Repository	Sync Status
centos_7-x86_64-nluug	

1 - 1 of 1

- Do not sync errata
- Sync only latest packages
- Create kickstartable tree
- Terminate upon any error

[Sync Now](#)

### Select a schedule:

Disable Schedule

Daily

at

CET

Weekly

Every

Sun

at

CET

Monthly

Day

at

CET

Custom Quartz format

[Schedule](#)



## Child Channels

Child channels maak je onder een base Channel aan om repositories te ontsluiten die specifiek bij de OS release van dat Base Channel horen, zoals in dit voorbeeld de updates en de EPEL repositories.

### update child channel

Maak eerst een repository aan, dit gaat hetzelfde als de repository voor het base Channel.

Ga naar **Channels** en kies in het zij menu **Manage Software Channels** -> **Manage Repositories** en druk op **+Create Repository**

Vul een naam in en de URL

[http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/updates/x86\\_64/](http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/updates/x86_64/) en druk op de groene knop **Create Repository**

Maak vervolgens het Child Channel aan. Ga naar **Manage Software Channels** en druk op **+Create Channel** , vul alles in en kies deze keer een **Parent Channel**

Knowledgebase Documentation admin

Systems

Overview Systems Errata **Channels** Audit Configuration 0 systems selected **Manage** **Clear**

Schedule Users

Admin Help

- > Software Channels
- > Package Search
- > **Manage Software Channels**
- > Manage Software Packages
- > Manage Repositories
- > Distribution Channel Mapping

## Create Software Channel

### Basic Channel Details

Create or edit software channels from this page.  
If the parent channel is set to 'none', the channel is a base channel. Otherwise, the channel is a child of the specified channel.

Channel name and label are required.  
They each must be at least 6 characters in length.  
Channel name must not be longer than 256 characters and channel label must not be longer than 128 characters.  
Channel name must begin with a letter and channel label may begin with a letter or digit.  
They each must not begin with rhn, redhat or red hat.  
They each must contain only lowercase letters, hyphens ('-'), periods ('.'), underscores ('\_'), and numerals.  
Channel name may also contain spaces, parentheses () and forward slashes ('/').

Channel summary is also required and must not exceed 500 characters.

**Channel Name\*:**

**Channel Label\*:**

**Parent Channel:**

**Architecture:**

**Yum Repository Checksum Type:**

**Tip:** sha1 offers the widest compatibility with clients. sha-256 offers higher security, but is compatible only with newer clients: Fedora 11 and newer, or Enterprise Linux 6 and newer.

**Channel Summary\*:**

De GPG keys zijn hetzelfde, vul dus dezelfde waarden in al bij het Parent Channel en druk op de groene knop **Create Channel**:

### Security: GPG

**GPG key URL:**


**GPG key ID:**

Example: DB42A60E

**GPG key Fingerprint:**

Example: CA20 8686 2BD6 9DFC 65F6 ECC4 2191 80CD DB42 A60E

[Create Channel](#)

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Spacewalk release 2.6 

Ga vervolgens naar het tabblad **Repositories**, selecteer de net aangemaakte repository voor updates, en druk op **Update Repositories**

Log in op de server en doe `spacewalk-repo-sync -c centos_7-x86_64-updates`

```
14:15:16 =====
14:15:16 | Channel: centos_7-x86_64-updates
14:15:16 =====
14:15:16 Sync of channel started.
14:15:17 Repo URL:
http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/updates/x86_64/
14:15:18 Packages in repo:          807
14:15:19 Packages already synced:    0
14:15:19 Packages to sync:            807
14:15:19 1/807 : 389-ds-base-1.3.5.10-12.el7_3-0.x86_64
14:15:31 2/807 : 389-ds-base-1.3.5.10-15.el7_3-0.x86_64
...
...
15:35:42 806/807 : zsh-5.0.2-25.el7_3.1-0.x86_64
15:35:43 807/807 : zsh-html-5.0.2-25.el7_3.1-0.x86_64
15:35:43 Linking packages to channel.
15:35:44 Repo
http://ftp.nluug.nl/ftp/pub/os/Linux/distr/CentOS/7/updates/x86_64/ has 0
errata.
15:35:44 Sync of channel completed in 1:20:27.
15:35:44 Total time: 1:20:27
```

Stel nog wel een dagelijkse sync in: Ga naar het subtabblad **Sync** selecteer **Daily**, kies een tijdstip en

druk op **schedule**

## Andere child channels

We nemen als voorbeeld de populaire EPEL repository. Nagenoeg hetzelfde als de update child channel.

Maak eerst een repository aan, ga naar **Channels** en kies in het zij menu **Manage Software Channels** -> **Manage Repositories** en druk op **+Create Repository**

Vul een naam in `EPEL_7-x86_64-nluug` en de URL

[http://ftp.nluug.nl/pub/os/Linux/distr/fedora-epel/7/x86\\_64/](http://ftp.nluug.nl/pub/os/Linux/distr/fedora-epel/7/x86_64/) en druk op de groene knop **Create Repository**

Maak vervolgens het Child Channel aan `epel_7-x86_64`. Ga naar **Manage Software Channels** en druk op **+Create Channel**, vul alles in en kies deze keer een **Parent Channel** in dit geval `centos_7-x86_64`

De GPG key moet je weer downloaden en analyseren om die vervolgens in te vullen. `cd /tmp`  
`wget http://ftp.nluug.nl/pub/os/Linux/distr/fedora-epel/RPM-GPG-KEY-EPEL-7`  
`gpg --with-fingerprint RPM-GPG-KEY-EPEL-7`

```
pub 4096R/352C64E5 2013-12-16 Fedora EPEL (7) <epel@fedoraproject.org>  
Key fingerprint = 91E9 7D7C 4A5E 96F1 7F3E 888F 6A2F AEA2 352C 64E5
```

druk op **Create Channel**.

Vervolgens de repository aan dit channel koppelen: Ga naar het tabblad **Repositories**, selecteer `EPEL_7-x86_64-nluug` en druk op **Update Repositories**

log in op de server en doe `spacewalk-repo-sync -c epel_7-x86_64`

stel nog een sync schedule in en klaar.

## En Verder

Nu je je channels klaar hebt is het tijd om clients te koppelen.

## Bronnen

<http://www.unixmen.com/how-to-manage-spacewalk-channels-and-repositories/>

<https://www.redhat.com/archives/spacewalk-list/2012-January/msg00105.html>

<https://easyitstuff.wordpress.com/2015/08/17/how-to-create-spacewalk-channel/>

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