Assign recent errata automatically to Spacewalk

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Recent bugs and security issue are mapped to necessary updates in the form of errata. Users of the commercial Red Hat Satellite or SUSE Manager server get these information directly from their distributor. Using Spacewalk this needs to be done manually - fortunately there a script **CEFS** by Steve Meier which automates this: [click me!]

Periodically a XML document containing all available errata is published there: [click me!]

This script can be automated in form of a **cronjob** to make sure that you always have to most recent errata information. First of all you need to have the following **Perl modules** installed on your **Spacewalk** system:

```
yum install perl-Text-Unidecode perl-XML-Simple
```

It is recommend to test the import at least once - this process looks like this:

```
# env -i SPACEWALK_USER=su-errata SPACEWALK_PASS=xyz ./errata-import.p
l --server localhost --errata errata.latest.xml --publish  INFO: Serve
r is running API version 13  INFO: API version is supported  INFO: Aut
hentication successful  INFO: Loading errata XML  INFO: Getting server
 inventory  INFO: Checking for unpublished errata  INFO: Scanning chan
nel CentOS 6 Extras - x86_64  INFO: Scanning channel CentOS 6 Base - x
86_64  INFO: Scanning channel CentOS 6 Updates - x86_64  INFO: Scannin
g channel Spacewalk Client - x86_64  INFO: Scanning channel EPEL EL6 -
 x86_64  ...
```

Veröffentlichte Errata in Spacewalk

The script scans all **software channels** (*in this case amongst others CentOS 6 Base, Extras and Updates as well as* EPEL) and assigns matching errata. Depending on your amount of software channels this can take a couple of minutes.

The parameter **--publish** is very important to make sure that all suitable erratas are published automatically to your spacewalk system.

It is recommend to create a dedicated Satellite user for the script so that you don't have to use the credentials of your administrator account in the script. Using the variables **SPACEWALK_USER** and **SPACEWALK_PASS** these credentials need to be provided in plaintext. The "**Channel Administrator**" role needs to be assign to this user.

My cronjob looks like this:

```
# vi /etc/cron.daily/spacewalk_sync.cron  #!/bin/sh  MAILTO=root    #
try to create the lock and check the outcome  LOCKFILE=/var/run/spacew
alk_sync.lock  #lockfile -r 0 ${LOCKFILE} 1>/dev/null 2>&1  #status=$?
  #if [ ${status} -ne 0 ] ;then  if [ -e "$LOCKFILE" ]; then
echo "Another instance already running. Aborting."          exit 1  el
se          touch "$LOCKFILE"  fi  trap "rm ${LOCKFILE}" EXIT    #sync
 channels and publish updates  /usr/bin/spacewalk-repo-sync --channel
centos6-base-x86_64 \                                  --url http://mirro
r.centos.org/centos/6/os/x86_64/ \                                --typ
e yum -c centos6-base-x86_64 >/dev/null    /usr/bin/spacewalk-repo-syn
c --channel centos6-updates-x86_64 \                                --u
rl http://mirror.centos.org/centos/6/updates/x86_64/ \
               --type yum -c centos6-updates-x86_64 >/dev/null    /usr
/bin/spacewalk-repo-sync --channel centos6-extras-x86_64 \
                   --url http://mirror.centos.org/centos/6/extras/x86_
64/ \                                --type yum -c centos6-extras-x86_6
4 >/dev/null    /usr/bin/spacewalk-repo-sync --channel epel-el6-x86_64
 \                                --url http://ftp-stud.hs-esslingen.de
/pub/epel/6/x86_64/ \                                  --type yum -c epel
-el6-x86_64 >/dev/null    #get errata file and checksums  cd /tmp  wge
t -N http://cefs.steve-meier.de/errata.latest.xml 1>/dev/null 2>&1  wg
et -N http://cefs.steve-meier.de/errata.latest.md5 1>/dev/null 2>&1  w
get -N http://www.redhat.com/security/data/oval/com.redhat.rhsa-all.xm
l.bz2 1>/dev/null 2>&1  bunzip2 -f /tmp/com.redhat.rhsa-all.xml.bz2
 #verify integrity  grep "errata.latest.xml$" errata.latest.md5 > myer
rata.md5  md5sum -c myerrata.md5 1>/dev/null 2>&1  if [ "$?" == 0 ]; t
hen          #ok - import errata          SPACEWALK_PASS=xyz SPACEWALK
_USER=su-errata /opt/tools/errata-import.pl --server localhost --errat
a errata.latest.xml --include-channels=centos6-updates-x86_64,epel-el6
-x86_64 --rhsa-oval=/tmp/com.redhat.rhsa-all.xml --publish 1>/dev/null
```

```
          if [ "$?" != 0 ]; then                  echo "It seems like
there was a problem while publishing the most recent errata..."
           exit 1          fi          rm /tmp/myerrata.md5  else
     #errata information possibly invalid          echo "ERROR: md5 ch
ecksum mismatch, check download!"          exit 1  fi
```

First of all the recent XML document and the checksums of all XML documents (*there are also compressed versions*) are downloaded. After that a temporary file only containing the **md5 checksum** of the downloaded file is created. Using this file the integrity of the download is checked before errata information are imported and published.