

Reserves automàtiques per l'estona de manteniment (des de 2022-08)

Els scripts i les tasques periòdiques programades (cron, crontab) que creaven les reserves setmanals varen estar en funcionament des de finals de 2013 fins principis de març de 2022. Llavors vàrem canviar la freqüència de les recàrregues dels imants i els scripts es varen haver d'adaptar.

La informació sobre els antics scripts i tasques periòdiques programades es troba a la pàgina [Reserves automàtiques per l'estona de manteniment \(de 2013-10 a 2022-03\)](#).

IMPORTANT: Les reserves per les estones de manteniment es crearan automàticament amb vuit setmanes d'antelació, per tal que, si s'escau, hi hagi prou temps per modificar-les.

maintenance_bookings.sh



cal adaptar el script.

Aquest es el programet que crea les reserves per l'estona de manteniment. S'executa tots els diumenges a les 3 de la matinada, i crea les reserves amb dues setmanes d'antelació per tal que es puguin modificar si s'escau. El programet també envia un correu electrònic indicant si ha pogut fer les reserves.

[maintenance_bookings.sh](#)

```
#!/bin/bash
#
# maintenance_bookings.sh
#
# (c) 2013, Miquel Cabanas, SeRMN, UAB
#
# Started writing: 2013/10/28
# Last updated: 2013/10/28
#
# This script runs the MySql commands needed to automatically create
the
# bookings for the spectrometers maintenance tasks, mainly liquid
nitrogen
# refills.
#
# To run this script every Sunday 2am append an entry like,
#
# FIXME 0 3 * * Sun /opt/bmbee-114-1/bin/maintenance_nmr_bookings.sh
#
# to crontab. This entry means, at minute 0, hour 2, on every (*) day
```

```
of
# the month and on every (*) month of the year, if that day happens to
be
# a Sunday (day 0), execute the commands in the script file
# 'maintenance_nmr_bookings.sh' (this file).

# VARIABLES -----
----

# programs
#
date=`which date`
mail=`which mail`
mysql=`which mysql`

# email recipients and subject

to_address="miquel.cabanas@uab.cat"
#
cc_address="miriam.perez@uab.cat,pau.nolis@uab.cat,eva.monteagudo@uab.c
at"
cc_address="miquel.cabanas@gmail.com,miquel.cabanas@uab.es"
subject="SeRMN Booking System - Weekly maintenance reservations"

# date related variables. This script runs on Sunday, and bookings are
made
# eight weeks in advance (56 days) on Wednesday from 09:00 to 13:00.
Hence,
# we need to find those dates so that we can use them later when
booking time-slots.
#
# NOTE: these date variables are not currently used for booking
commands,
# only for the reporting email messages.

today_date=`$date --date='Today' +%Y/%m/%d` # 2013/10/28
mon_date_mail=`$date --date='8 week 3 day' +%a %Y/%m/%d` # Thu
2013/12/06
mon_weekno=`$date --date='8 week 3 day' +%V/%Y` # 52/2013

# Bumblebee booking system database where everything gets stored

myuser='*****'
mypass='*****'
mydb='*****'

# INSERT BOOKING ENTRIES IN THE DATABASE -----
-----
```

```
$mysql --database=$mydb --user=$myuser --password=$mypass << EOF
/* begin transaction */
BEGIN;
/* Insert bookings for weekly maintenance tasks in all vertical
magnets. */
/* By default, book Wednesday morning from 09:00 to 13:00, 8 weeks in
advance */
/* (i.e. 59 days)    */

/* Avance DPX-250-QNP (250-AUTO) - Wednesday from 09:00 to 13:00 -> 4
hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 12, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* Avance DPX-250-BACS (250-ROBOT) - Wednesday from 09:00 to 13:00 -> 4
hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 15, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* Avance DPX-360 - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 1, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* AvanceIII 400SB - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 6, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* AvanceII 400WB - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 9, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* Avance DRX-500 - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
```

```
'04:00:00', 2, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* AvanceII+ 600 - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 7, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* Hypersense DNP - Wednesday from 09:00 to 13:00 -> 4 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted) VALUES (date_add(
date_add( current_date(), interval 59 day), interval 9 hour),
'04:00:00', 17, 7, 7, 1, 0, '192.168.2.2', 'Weekly maintenance tasks',
'Weekly maintenance tasks', 0);

/* commit transaction */
COMMIT;
EOF

# MAIL THE SYSTEM AND INSTRUMENT ADMINISTRATORS - -----
--
#
# Report to the system and instrument administrators whether Routine
NMR
# bookings have been created.
#
status=$?

if [ $status -ne 0 ]; then
    # mysql command failed. Send an email reporting the failure
    #
    $mail -s "$subject" -c $cc_address $to_address << EOM

    AUTOMATED EMAIL MESSAGE. DO NOT REPLY

    SeRMN - Universitat Autònoma de Barcelona

    Failed to allocate time slots for weekly maintenance tasks
    week $mon_weekno starting: $mon_date_mail.

    Please, report this issue to the system administrator.

EOM

else
    # mysql command succeeded. Send an email reporting that routine
    # bookings have been created
```

```
#  
$mail -s "$subject" -c $cc_address $to_address << EOM  
  
AUTOMATED EMAIL MESSAGE. DO NOT REPLY  
  
SeRMN - Universitat Autònoma de Barcelona  
  
Time slots have been allocated for weekly maintenance tasks  
on all SeRMN spectrometers for week $mon_weekno starting:  
$mon_date_mail.  
  
EOM  
  
fi  
  
exit
```

El programet envia el següent correu electrònic si ha aconseguit fer les reserves,

```
----- Original Message -----  
Subject: SeRMN Booking System - Weekly maintenance reservations  
Date:    Sun, 27 Oct 2013 16:54:46 +0300  
From:    root <root@sermn.uab.cat>  
To:      Miquel.Cabanas@uab.cat  
  
AUTOMATED EMAIL MESSAGE. DO NOT REPLY  
  
SeRMN - Universitat Autònoma de Barcelona  
  
Time slots have been allocated for weekly maintenance tasks  
on all SeRMN spectrometers for week 52/2013 starting:  
Mon 2013/12/23.
```

i aquest altre missatge en cas contrari,

```
----- Original Message -----  
Subject: SeRMN Booking System - NMR Routine reservations  
Date:    Sun, 27 Oct 2013 16:54:46 +0300  
From:    root <root@sermn.uab.cat>  
To:      Miquel.Cabanas@uab.cat  
  
AUTOMATED EMAIL MESSAGE. DO NOT REPLY  
  
SeRMN - Universitat Autònoma de Barcelona  
  
Failed to allocate time slots for weekly maintenance tasks  
week 52/2013 starting: Mon 2013/12/23.  
  
Please, report this issue to the system administrator.
```

Entrada al registre crontab



cal adaptar la programació del script.

Aquesta és l'entrada creada al programa crontab per executar automàticament el programet que crear les reserves (crontab -u root -l):

```
# Bumblebee 1.1.4 - Automated bookings for weekly maintenance tasks. It runs  
# on Sunday at 03:00.  
#  
0 3 * * Sun /opt/bmbee-114-1/bin/maintenance_bookings.sh
```

Seguretat



cal comprovar els permisos.

Per motius de seguretat (el programet conté el nom d'usuari i clau de pas de la base de dades de reserves) la carpeta /opt/bmbee-114-1/bin/ està protegida i té l'accés restringit,

- permisos carpeta bin: 700
- permisos fitxer maintenance_bookings.sh: 700
- propietari (user:group): root:root

A més, per impedir el seu accés a través del servidor web, la carpeta bin conté un fitxer .htaccess amb el següent contingut:

```
order deny,allow  
deny from all
```

From:
<https://sermn.uab.cat/wiki/> - SeRMN Wiki

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Last update: 2022/08/19 17:16

