Reserves automàtiques per la Cua de Rutina

> ⚠️ Les reserves automàtiques per la Cua de Rutina s'han **desactivat amb data de 2019-07-19.**

🔧Fix Me! explicar el programet per fer les reserves automàtiques per la cua de rutina i les condicions de funcionament de l'espectròmetre

routine_nmr_bookings.sh

Aquest es el programet que crea les reserves per la cua de rutina. S'executa tots els diumenges a les 2 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.

routine_nmr_bookings.sh

```bash
#!/bin/bash
#
# routine_nmr_bookings.sh
#
# (c) 2013, Miquel Cabanas, SeRMN, UAB
#
# Started writing:  2013/10/14
# Last updated:     2013/10/18
#
# This script runs the MySql commands needed to automatically create
the
# bookings for the routine nmr analysis in the Bruker DPX-250-BACS
shared
# by self-service and programmed samples.
#
# To run this script every Sunday 2am append an entry like,
#
# FIXME 0 2 * * Sun /opt/bmbee-114-1/bin/routine_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
# 'routine_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 - NMR Routine reservations"

# date related variables. This script runs on Sunday, and bookings are
made
# two weeks in advance (15 days) from Monday to Friday. 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=`$date --date='Today' +'%Y/%m/%d'`   # 2013/10/18
mon_date_mail=`$date --date='2 week 1 day' +'%a %Y/%m/%d'` # Sat
2013/11/02
mon_weekno=`$date --date='2 week 1 day' +'%V/%Y'`   # 44/2013

# Bumblebee booking system database where everything gets stored

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


# INSERT BOOKING ENTRIES IN THE DATABAE -------------------------------
----------

$mysql --database=$mydb --user=$myuser --password=$mypass << EOF
/* begin transaction */
BEGIN;
/* insert bookings for routine nmr analysis */

/* Monday from 16:00 to 10:00 next day -> 18 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 15 day), interval
```

```
16 hour), '18:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Tuesday from 16:00 to 09:00 next day -> 17 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 16 day), interval
16 hour), '17:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Wednesday from 16:00 to 10:00 next day -> 18 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 17 day), interval
16 hour), '18:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Thursday from 16:00 to 10:00 next day -> 18 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 18 day), interval
16 hour), '18:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Friday from 16:00 to 10:00 next day -> 18 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 19 day), interval
16 hour), '18:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Saturday from 10:00 to 00:00 next day -> 14 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 20 day), interval
10 hour), '14:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Sunday from 00:00 to 00:00 next day -> 24 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 21 day), interval
0 hour), '24:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 0);

/* Monday from 00:00 to 10:00 -> 10 hours */
INSERT INTO bookings(bookwhen, duration, instrument, bookedby, userid,
projectid, discount, ip, comments, log, deleted)
VALUES (date_add( date_add( current_date(), interval 22 day), interval
0 hour), '10:00:00', 15, 361, 361, 68, 0, '192.168.2.2', 'Routine nmr
analysis', 'Routine nmr analysis', 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 Autonoma de Barcelona

  Failed to allocate time slots to the Routine NMR at the
  Bruker DPX-250 spectrometer on week $mon_weekno starting:
  $mon_date_mail.

  Please, report this issue to the system administrator.

EOM

else
  # mysql command suceeded. 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 Autonoma de Barcelona

  Time slots at the Bruker DPX-250 spectrometer have been
  allocated for Routine NMR on 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 - NMR Routine reservations
Date:      Fri, 18 Oct 2013 11:12:02 +0200
From:      root <root@sermn.uab.cat>
To:        Miquel.Cabanas@uab.cat


AUTOMATED EMAIL MESSAGE. DO NOT REPLY


SeRMN - Universitat Autonoma de Barcelona


Time slots at the Bruker DPX-250 spectrometer have been
allocated for Routine NMR on week 42/2013 starting:
Sat 2013/11/02.
```

i aquest altre missatge en cas contrari,

```
-------- Original Message --------
Subject:   SeRMN Booking System - NMR Routine reservations
Date:      Fri, 18 Oct 2013 11:09:27 +0200
From:      root <root@sermn.uab.cat>
To:        Miquel.Cabanas@uab.cat


AUTOMATED EMAIL MESSAGE. DO NOT REPLY


SeRMN - Universitat Autonoma de Barcelona


Failed to allocate time slots to the Routine NMR at the
Bruker DPX-250 spectrometer on week 42/2013 starting:
Sat 2013/11/02.


Please, report this issue to the system administrator.
```

Entrada al registre crontab

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 fro Routine nmr analysis
# run every Sunday at 02:00.
#
0   2   *   *   Sun   /opt/bmbee-114-1/bin/routine_nmr_bookings.sh
```

Seguretat

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 `routine_nmr_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
```

Actualització dels permisos dels usuaris

Aquest és el codi que permet actualitzar els permisos dels usuaris i donar accés al 250-ROBOT als usuaris amb accés al 250-AUTOSERVEI que no tenen el compte suspès ni cancel·lat.

```
INSERT INTO permissions (userid, instrid, isadmin,
announce, unbook, haspriority, points, pointsrecharge)
SELECT permissions.userid, 15, 0, 0, 0, 0, NULL, NULL
FROM permissions, users
WHERE permissions.userid = users.id
AND permissions.instrid = 12
AND users.deleted = 0
```

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