


Reserves automàtiques per la Cua de Rutina

 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 matina, i crea les reserves amb dues setmanes d'antel·lació per tal que es puguin modificar si s'escau. El programet també envia un correu electrònic indicant si ha pogut fer les reserves.

```
#!/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 * * 1 /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.cat"
#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='xxxxxxxxxx'
mypass='xxxxxxxxxx'
mydb='xxxxxxx'

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

$mysql --database=$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 Monday -> 66 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), '66:00:00', 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 Autònoma 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 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 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 Autònoma 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 Autònoma 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.

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 * * 1 /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:
- 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
```

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