


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.

[routine_nmr_bookings.sh](#)

```
#!/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.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='sermnadmin'
mypass='53rmn4dm1n'
mydb='bmbdb114'

# 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 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 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.

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 * * 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 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
```

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