



# DEVOPS SEMINAR

DATABASE



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The whole day should be done on a new virtual machine.



**Slug of the day:** `nsapoold07`

## Task 01 - Virtual machine

Create two Debian 11 virtual machines, without graphical interface:

- ✓ one machine is named `vm-master` ;
- ✓ another machine is named `vm-slave`.



These machines are able to communicate together.

## Task 02 - PostgreSQL - Install

On both machines, install the latest version of *PostgreSQL*.

## Task 03 - PostgreSQL - Basic

Change the password of the `postgres` user using the value `marvin4242`.  
Add a new user `nsapool` with the password `marvin4242`.

## Task 04 - Create database user

Create a `nsapool07` database which contains the table `user`.



The data schema does not exist, it's up to you to create it.  
Each user has a unique ID, an email and a nickname.

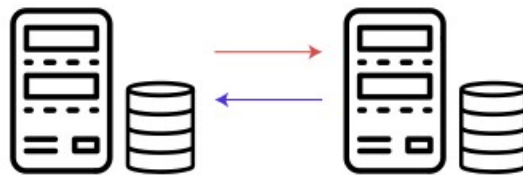
Insert one user with the following characteristics:

- ✓ email: `marvin@epitech.eu`
- ✓ nickname: `marvin42`

## Task 05 - PostgreSQL - Advanced

Redundancy allows a service or an element to be replicated.

Configure redundancy for your two servers: each modification of your database on the `vm-master` server must be automatically duplicated on the `vm-slave` server.



## Task 06 - Backup

Create a script that exports the `user` table in a file `backup_${DAY}_${MONTH}_${YEAR}_${TIMESTAMP}.sql`, where:

- ✓ `$DAY` is the current day ;
- ✓ `$MONTH` is the current month ;
- ✓ `$YEAR` is the current year ;
- ✓ `$TIMESTAMP` is the execution timestamp, formatted in unix time timestamp.



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