T5 - Systems and Networks Seminar

T-NSA-500

Day 07

Virtualization and infrastructure

Task 01 - Proxmox (4 PT)

Install proxmox in your debian server.
Configure it to be able to create several virtual machines that communicate together

Task 02 - Virtual machine (3 PT)

Create two debian virtual machines without graphical interface from proxmox.

- first machine named `serv-master`
- second machine named `serv-slave`

These machines must communicate together.

Task 03 - MariaDB-basic (2 PT)

Install the latest version of MariaDB on both machines.

Task 04 - Create database user (1 PT)

Create a `nsapoold07` database which contains a `user` table.
Each user has unique ID, an email and a nickname.
Insert one user with the following characteristics:

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

Task 05 - MariaDB-advanced (4 PT)

Redundancy allows a service or an element to be replicated.
Configure redundancy for your two mysql servers.
Each modification of your database on the master server must be automatically duplicated on the slave server

Task 06 - Prometheus (4 PT)

Install and configure prometheus on server-master to collect data about mysql service

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