REPORT (S103): Raspberry Pi Installation and Configuration

IUT ORSAY

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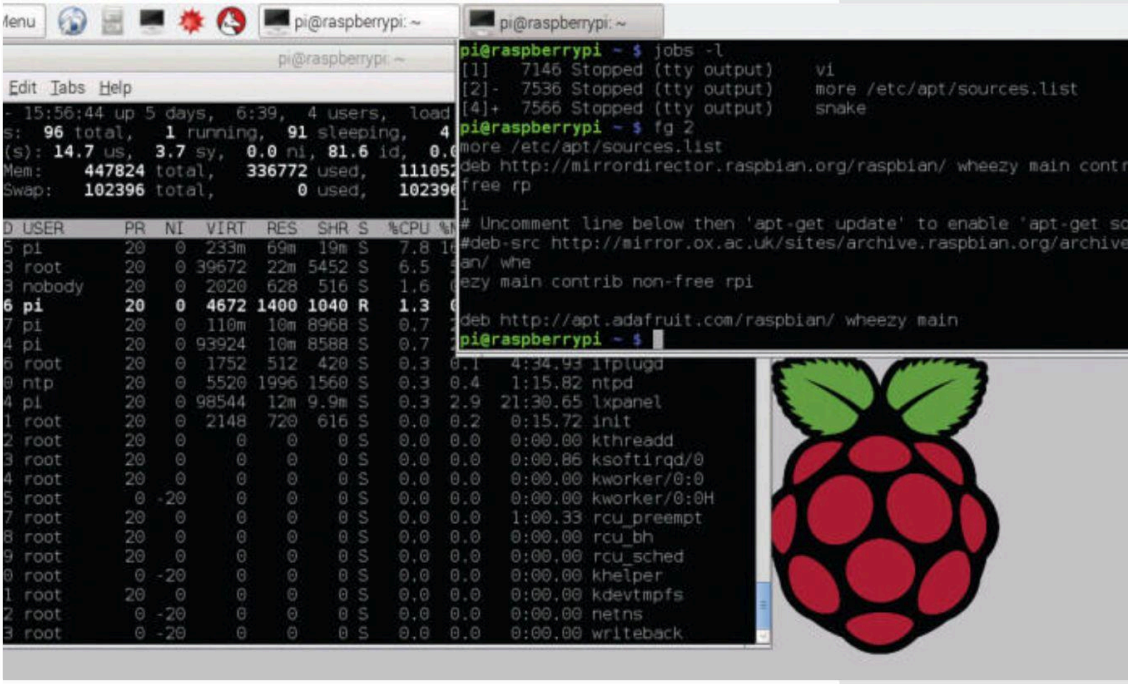

University Paris-Saclay

BY LUCIE CASTELLI, SIRINE LAOUER AND ALI AHMADI

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Introduction

Purpose

This report aims to provide a step-by-step guide for installing and configuring a Raspberry Pi, allowing users to configure successfully. The report is written by Sirine Laouer, Ali Ahmadi and Lucie Castelli. It encompasses a systematic approach to the installation and configuration process, ensuring clarity, accuracy and practicality.

Team Approach

With this structured and collaborative approach, we aim to provide a valuable tool for those looking to get started with the Raspberry Pi, allowing them to confidently navigate the installation and configuration process and unlock the full potential of this versatile technology .

Hardware Requirements and Setup

Here is the group configuration:

- Ali: The Raspberry configuration process contains several steps:

- You need the required hardware (SD card, Raspberry PI, power supply, keyboard, mouse, screen and cables). Then you have to prepare the SD card, download the Raspberry, power it on, connect then access the desktop

- Sirine: We asked for help with issues like installing mariadb

- **Section 1: Installing the operating system**

- Lucie: We have gone through the process of downloading and installing the Raspberry Pi operating system on an SD card.

- Ali: First of all we configured the date so that our orders could be marketed, we then wanted to download mariadb but we could not due to a technical problem which was later resolved then we started to create the base of data but not short of time we could not finish.

- Sirine: We had difficulty knowing which command to do to download mariadb, and following commands for updates, problems persisted.

- **Section 2: Basic System Administration (SysOP)**

- Lucie: We had to create a student profile which was quite simple to do.

- Sirine: Discuss the steps involved in updating the Raspberry Pi software and troubleshoot any potential issues.

- **Section 3: Prospects and challenges**

- Lucie: This project was complicated for us because we had several problems, so the challenge was to resolve them with the help of the teachers.

- Ali: Learn the commands well, understand them

- Sirine: The project was complicated to understand at the beginning but I had to follow the steps

Result

We were unable to finish the project because we had a problem that delayed us. Our results are limited to the appearance of our first name in a text file, we configured the database but not the ssh connection.

Conclusion

- This project allowed us to learn a lot about the raspberry, how it works, certain commands to be able to configure a database in the raspberry. Working in a group allowed us to give advice and know how to change certain things.