

SYSTEM ADMINISTRATION: INSTALLATIONS AND AUTOMATION

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WHO AM I...

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What I Do:

- Quality Manager - SCCM (Software Change & Configuration Management)
- 3ª Matricula na UAB Licenciatura em Informática

DISCLAIMER

The names and scenarios presented here are purely fictional.

Any similarity to real people or scenarios is purely a coincidence.

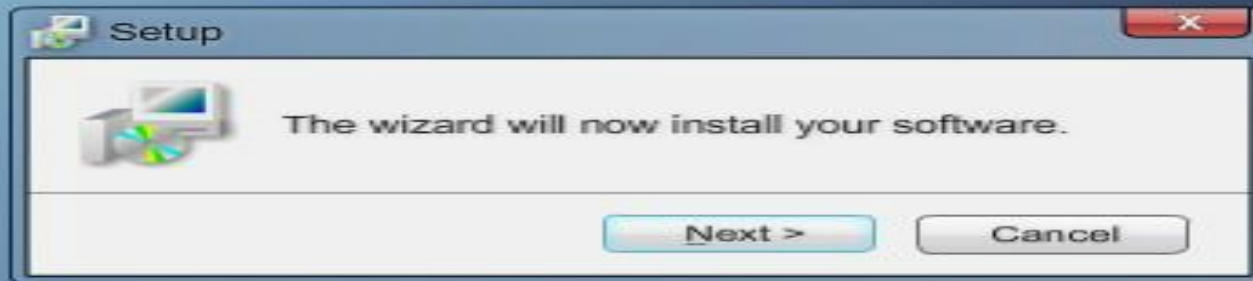
No animals were harmed during the making of this Workshop.

In System Administration

WHAT IS INSTALLATIONS?

INSTALLATION & UPDATE

WHEN ALL MAGIC HAPPENS ON SYSTEM



ROLLBACK
RUN OR WILL REGRET THE NEXT MORNING



RESTART & RECOVERY

MAY THE FORCE NOT BE WITH YOU

A problem has been detected and windows has been shut down to prevent damage to your computer.

DRIVER_IRQL_NOT_LESS_OR_EQUAL

If this is the first time you've seen this Stop error screen, restart your computer. If this screen appears again, follow these steps:

Check to make sure any new hardware or software is properly installed. If this is a new installation, ask your hardware or software manufacturer for any windows updates you might need.

If problems continue, disable or remove any newly installed hardware or software. Disable BIOS memory options such as caching or shadowing. If you need to use Safe Mode to remove or disable components, restart your computer, press F8 to select Advanced Startup options, and then select Safe Mode.

Technical information:

*** STOP: 0x000000D1 (0xFFFFF8A00275F610,0x0000000000000002,0x0000000000000000,0xFFFFF8800B6B6385)

*** myfault.sys - Address FFFFF8800B6B6385 base at FFFFF8800B6B5000, DateStamp 4f806ca1

Collecting data for crash dump ...
Initializing disk for crash dump ...
Beginning dump of physical memory.
Dumping physical memory to disk: 75

~~Why should I automate installations?~~

WHY I MUST AUTOMATE INSTALLATIONS

REASON #1

REDUCE HUMAN ERROR



WHO MEASURED THE DOOR?

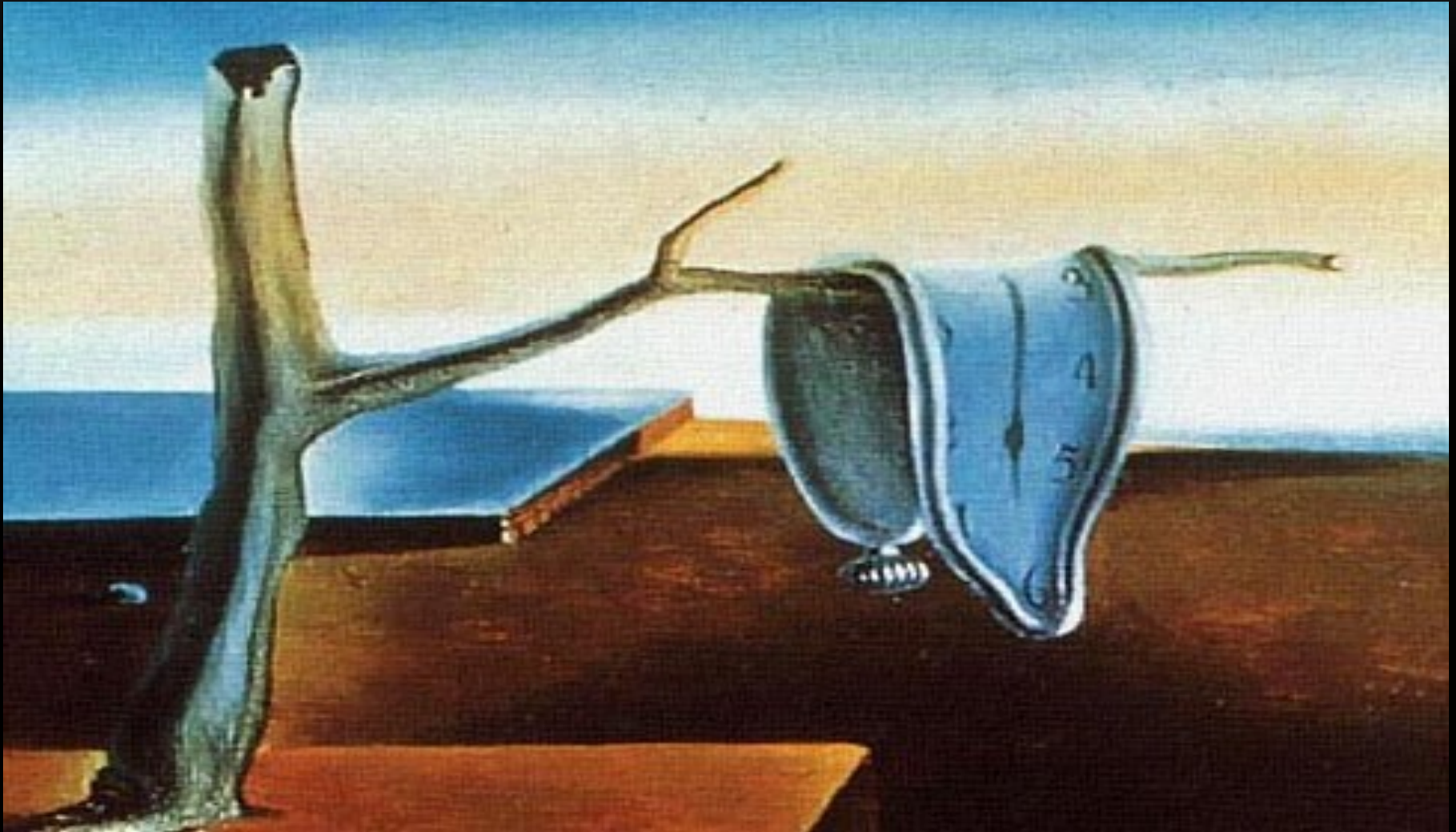
REASON #2

PRODUCTIVITY



REASON #3

TIME FLEXIBILITY



REASON #4

RELIABILITY



REASON #5

PORTABILITY



REASON #6

REPETITIVE TASKS



REASON #7

PACKAGE



A example used in Universidade Aberta course unit

WHAT IS IN PRACTICE...

COURSE UNIT:

ADMINISTRAÇÃO DE SISTEMAS INFORMÁTICOS

Objectives

- Install a Virtual Machine with CentOS
- Web Solution Stack
 - Apache
 - MySQL
 - PHP
- Install and configurate a Moodle Instalation
 - Install Moodle Catalan Language
 - Install Moodle English Language
 - Configure Moodle Crontab

COURSE UNIT:

ADMINISTRAÇÃO DE SISTEMAS INFORMÁTICOS

Develop a Shell Script:

- 1.Install Apache
- 2.Install MySQL
- 3.Install PHP
- 4.Start/Restart Services
- 5.Clean Previous Moodle Installation
- 6.Download & Unzip Moodle
- 7.Copy Moodle Files to Web Server
- 8.Create Moodle Database & User
- 9.Import Moodle Database
- 10.Download & Install Moodle CA Language
- 11.Download & Install Moodle EN Language
- 12.Configure Moodle on Crontab

COURSE UNIT:

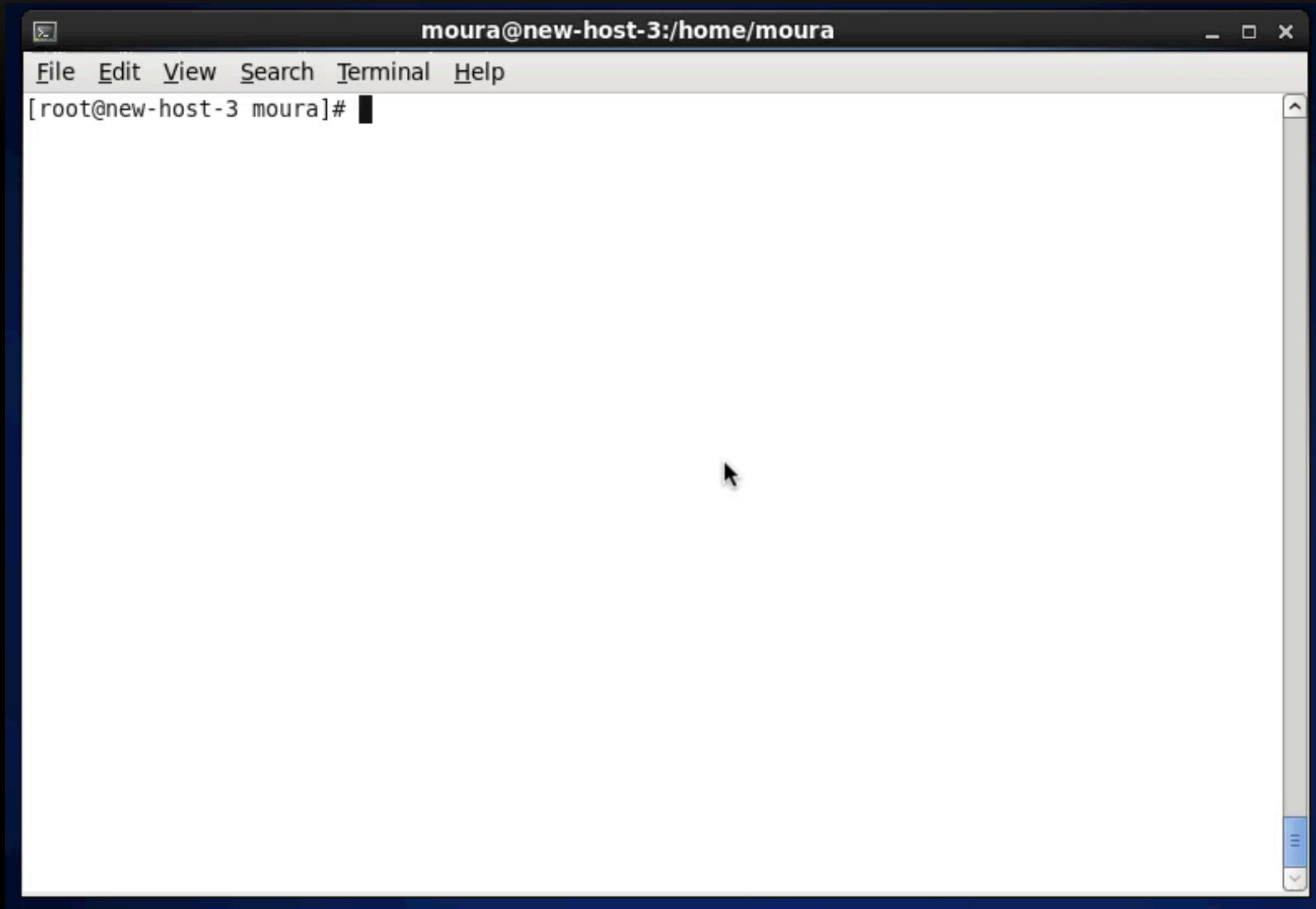
ADMINISTRAÇÃO DE SISTEMAS INFORMÁTICOS

Benefits:

- No need to access Gui mode
- Control over all actions step by step
- Easy and quick to install
- Automatically remove previous installations
- Easy to validate and make changes
- Multiple executions and tests
- Safety and Reliability
- MASSIVE TIME REDUCTION

COURSE UNIT:

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ANY
QUESTIONS
?

THANK YOU