Operating Systems

Lab project

Free University of Bolzano/Bozen 2013/2014

Labs

- Monday: 14:00 - 16:00
- Thursday: 14:00 – 16:00
- Thursday: 16:00 - 18:00 (office hours) scheduled by e-mail

What are going to do?

Pros

- Works everywhere

- Elegant

- Quick and dirty

Cons

- Security updates
- Slow

Build a customized Ubuntu Live CD

Why?

- customize software packages

- specific configuration

- Build a tool to automate the process

Customization??

- Adding/removing packages

- updating/upgrading

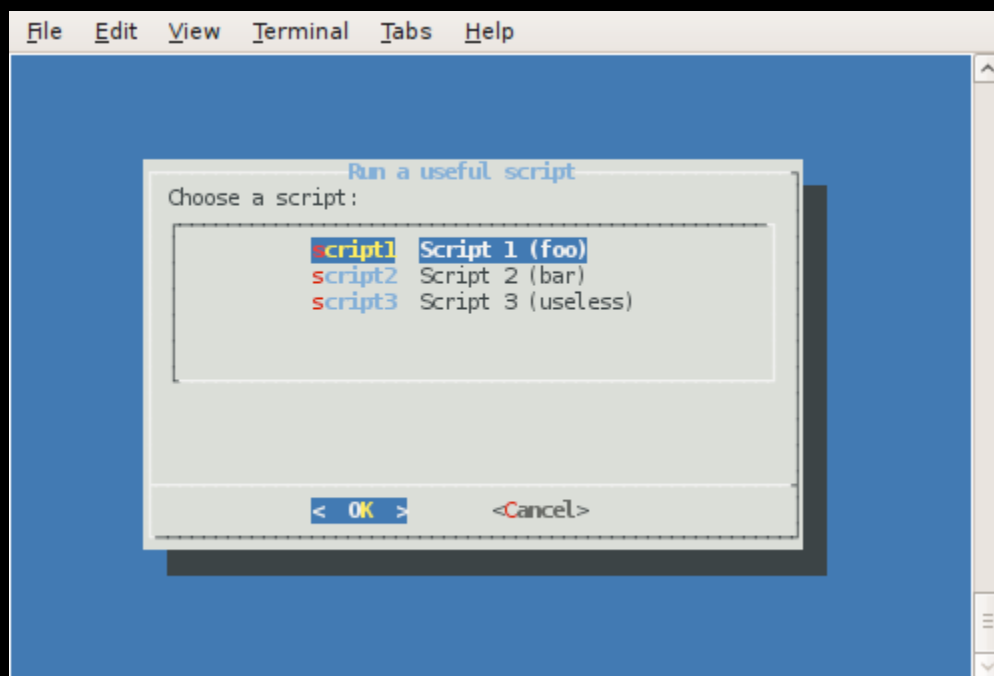- changing configurations

In this Lab

- How To : customize ubuntu Live CD 12.04.3 LTS (Precise Pangolin)

- Build a script to manage the customization process

Howto

- Manually customize Ubuntu Live CD
  - follow the instructions provided
  - ask questions / search on the Internet
- Input
  - Ubuntu Live CD 12.04
- Output
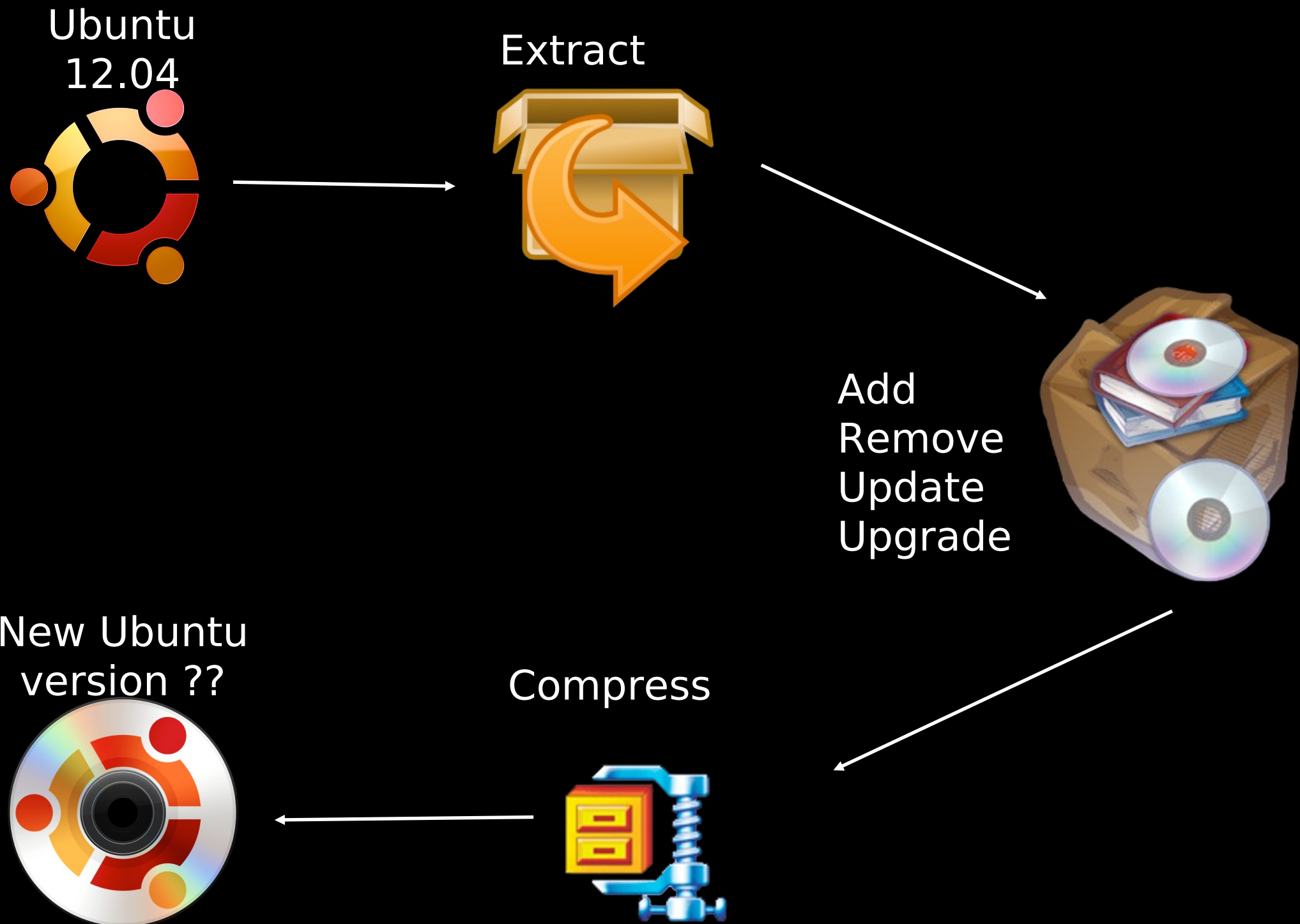 - A new Live CD with specific modifications

Project

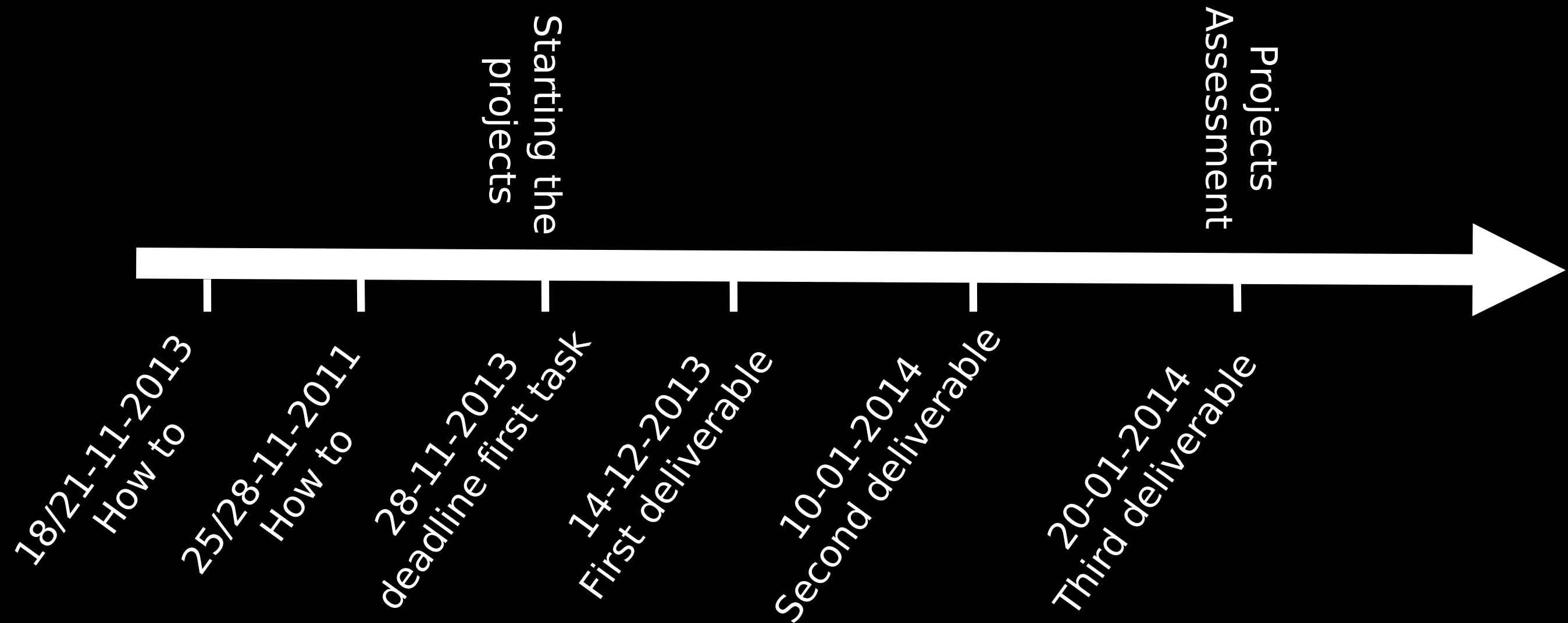- Automate the customization process

  - A menu driven script

Customization

Ubuntu
12.04

Extract

Add
Remove
Update
Upgrade

New Ubuntu
version ??

Compress

Timeline

18/21-11-2013
How to

25/28-11-2011
How to

28-11-2013
deadline first task

Starting the projects

14-12-2013
First deliverable

10-01-2014
Second deliverable

20-01-2014
Third deliverable

Projects Assessment

How to Deliver

The delivery of the project is compulsory and it can be done in two ways:

- complying with the 3 deadlines, with the possibility of feedbacks

- delivering all the code at the end, without the possibility of feedbacks

Assessment

With the 3 deliverables, it is possible to reach 7 points (8 cum laude)

- First deliverable: 2 points
- Second deliverable: 2 point
- Third deliveralbe: 3 point

Assessment

Only one deliverable at the end without feedback, it is possible to reach 6 point

Questions??

- Send me E-mail to schedule a meeting vincezo.delfatto@unibz.it
  - office hours: Thursday 16:00 - 18:00
- Ask me during the lab session
- Google

Tools needed

- Virtualization solftware

  - VMware
    https://www.inf.unibz.it/vmware/

  - VirtualBox
    https://www.virtualbox.org/

- Ubuntu 12.04 (Precise Pangolin) virtual image

- 12.04 (Precise pangolin) iso image

How to work

- Individually!!!

- Using Computer Labs

  - All the tools are installed (except the iso image)

  - Virtual image is reset after a reboot

- Using your laptops

  - you have more control over the VM

  - create a snapshot of the clean installation