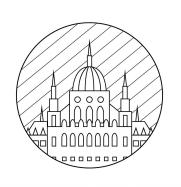
## Apache OFBiz Infra Task Automation For Deployment And Hosting



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#### Introduction

- IT project highly difficult, moreover concerning ERP
- How to achieve goals
- Too big subject for a simple conference, but we will focus on technical aspects



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- 2)Specifications
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## Strategy and Objectives



- Making the project a success
  - Most Important : select a project method
    - Like Scrum, Kanban, Extrem or other
  - Transform needs in tasks and organize its following the chosen project method
  - Each project role have to be focus on their own domain (specification writing, dev, validation, sys admin)
  - Giving visibility to managers



- Secure production deployments
  - A little issue could have very costly consequences whatever the origin :
    - Development
    - System Administration
    - Data
- Who bear the responsibilities
- How the code is validated
- How to ensure what is deployed



- Managing multi-project improvements
- Solve customers needs / making the project a success.
  - Identify what can be mutualisable :
    - Between our projects
    - To the community
- Ability to grow with others



- Specific development capitalization
  - Apache OFBiz stable branches, bug fix only
  - Apache OFBiz Trunk, bug fix and new functionalities
  - Customer production only on stable branches!
    (Or not, but at your own risks)
- How to contribute to trunk considering previous rules?



## Specifications



- Need tools and process to :
  - Stick with project management process
  - Ease developer work
  - Automatize validation tests and deployment
  - Identification of development revision
  - Secure production delivery
  - Multi-project/customer/community code management
  - Managing community backport



- Our first idea :
  - Split code into versioning packages which are :
    - A developer task
    - A specific customer code
    - An Apache OFBiz potential identified contribution
    - An Apache OFBiz functionnality backport

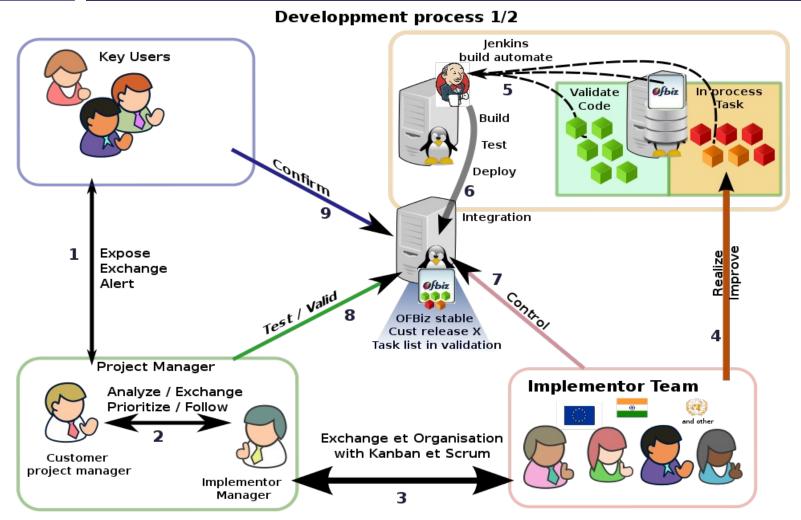


- Community valuable identified by project/community manager, in separated packages
- Versioning offer stability to project and evolution
- A package can be easily shared

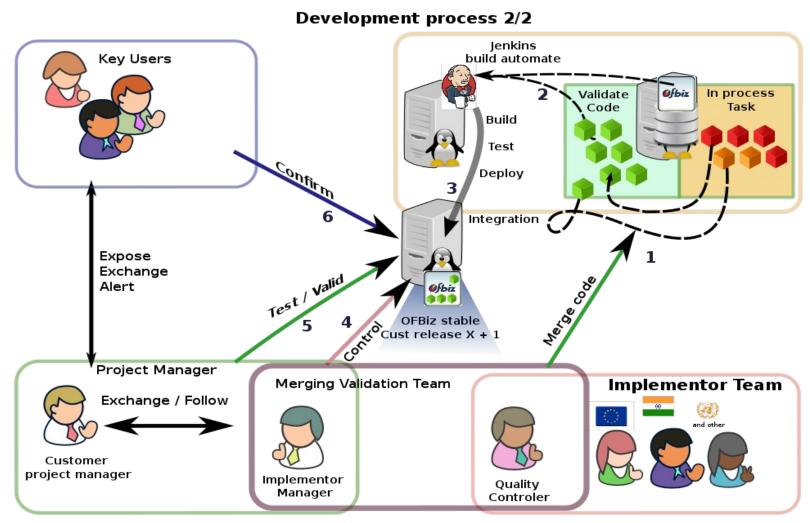


How do we proceed?

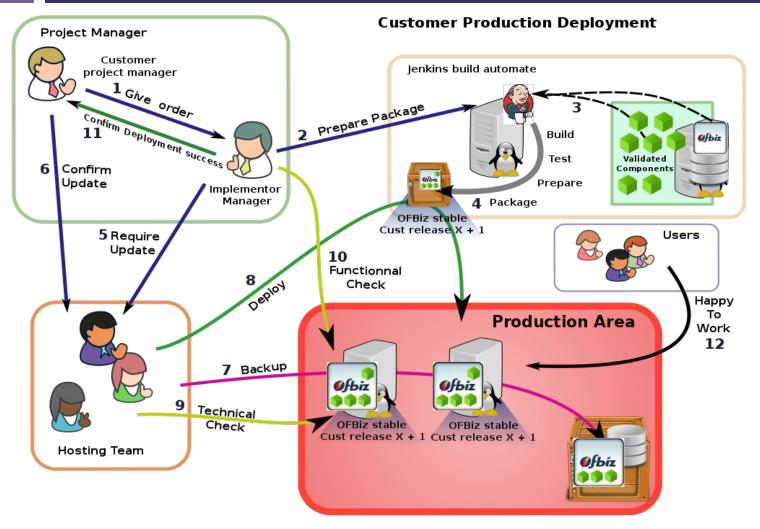














## Tools



- Addonmanager
  - Build, download, manage easily packages
  - Managing dependencies between packages

Use it with SVN repository



- A industrialization tool
  - Jenkins, our faithful servant
    - To build our packages in the project
    - To control the build with compilation, tests...
    - To deploy to customer/integrator's platforms
    - To prepare production solution
    - To help developer for specific maintenance tasks (like update integration database from production)





- Jenkins configured to offer following builds :
  - PRO\${projectId}-construction
  - PRO\${projectId}-deployment-integ
  - PRO\${projectId}-deployment-sandbox
  - PRO\${projectId}-packaging-production
  - PRO\${projectId}-dump-prod-to-sandbox



- PRO\${projectId}-construction:
  - checkout weekly revision of svn OFBiz
  - Install project validated addons
  - Install given unvalidated devs addons in param
  - Compile and test
  - If build validated Jenkins automatically launch the following build...



- PRO\${projectId}-deployment :
  - Tar last successful construction of the project
  - Scp to the integration VM
  - Untar, install environment addon and compile
  - Stop integration OFBiz, save actual revision of environment and switch to the new one
  - Launch the new OFBiz and check status
  - Idem for Sandbox and Production



- PRO\${projectId}-dump-prod-to-sandbox :
  - Connect to prod environment and get the last db dump
  - Reset sandbox database with prod dump



- A sharing tool dedicated to our packages
  - To ease sharing
  - To simplify specific package revision installation
  - To ease the job of industrialization tool into project building



## Difficulties

## **Difficulties**



#### Difficulties

- Our found out difficulties and points to watch
  - Good Code splitting :
    - Prod delivery
    - Sharing between project, dependencies
    - What can profit to community
    - A lot of work of package merging and synchronization
    - In other words, manage the life!



#### Difficulties

- Our found out difficulties and points to watch
  - Community vs Project speed/objectives
    - Project : effectiveness and date delivery
    - Community: Quality and apache validation, (quality delivery)
  - Result: hard to contribute and share into Apache
    OFBiz without a dedicated integrator person
  - A commit is a great success for the integrator team (quality, share, happiness)



## Improvements

## Improvements



## Improvements - Statement

- Addon manager tool is a satisfying solution, but :
  - Unix patch command dependent
  - Out of Apache
  - Miss to be known
  - Addon repository serve its goal with addonmanager



## Improvements - Actions

- With OFBiz-france association
  - Addon manager is a Proof of concept



- Launch a discussion about the conception of a new extension manager
- The goal is to offer industrialization possibilities
  OOTB among others
- Not so much reactions today
- Purpose : give Apache OFBiz more flexibility for ERP project



#### Questions!

If you have any questions feel free to ask!

 No authorization to launch tomatoes, empty beer cans or anything that can hurt the spanish cow



# And they lived happily ever after