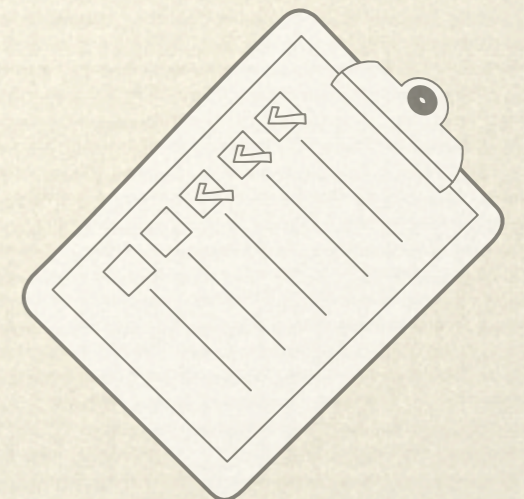# ErlangPro

Massive Solutions Ltd.

Our vision

- ❖ Erlang is the great language

- ❖ But this candy really needs a wrap!

- ❖ Many aspects of deployment and usage of Erlang distributed apps should be simplified and automated

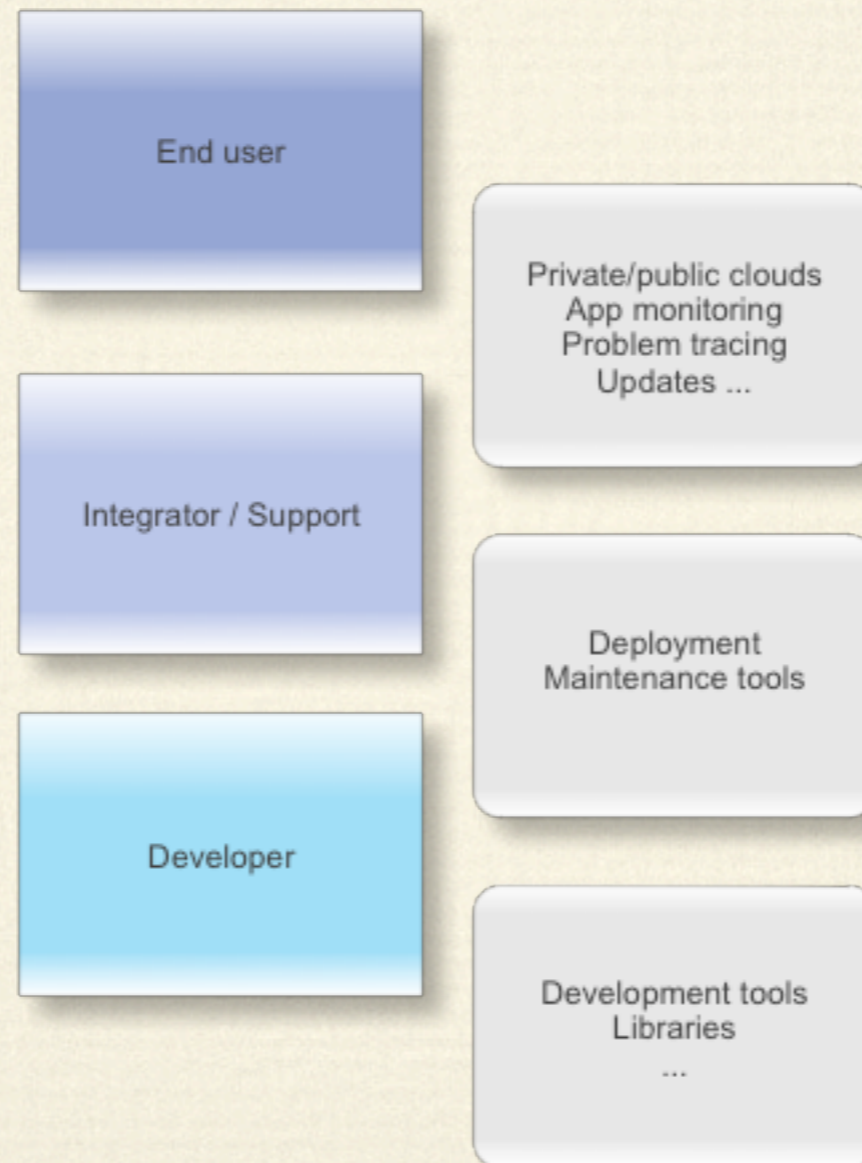- ❖ Managing of distributed configurations is headache that should be healed somehow

Our goals with ErlangPro

- Simplify all aspects of apps' lifecycle

- Define and automate trivial actions where it's possible

- Significantly reduce deployment and maintenance costs

- Improve functionality without changing Erlang/OTP itself

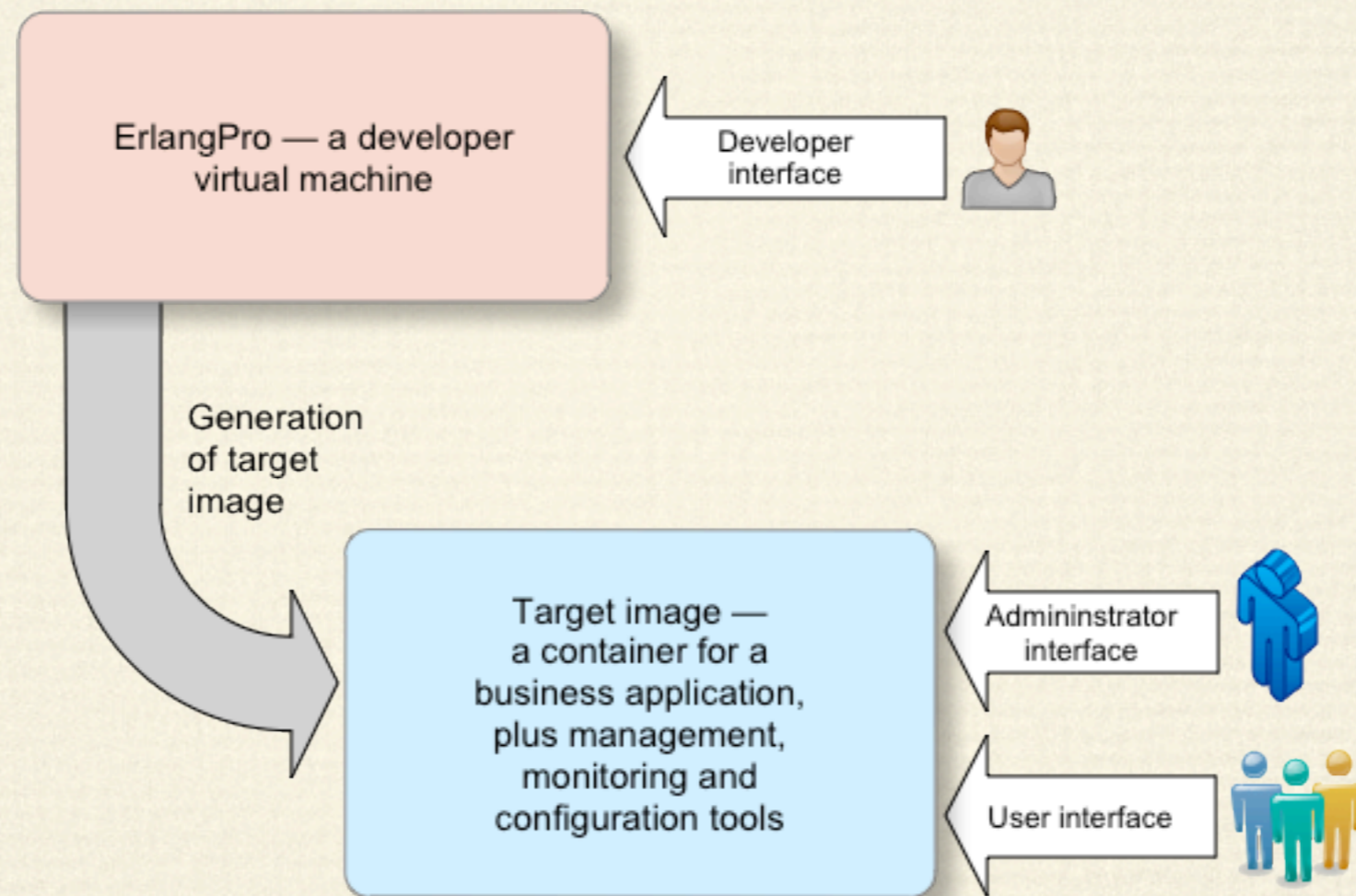- Enable wider usage of Erlang in clouds

Our goals with ErlangPro

End user

Integrator / Support

Developer

Private/public clouds
App monitoring
Problem tracing
Updates ...

Deployment
Maintenance tools

Development tools
Libraries
...

Our goals with ErlangPro

End user

Integrator / Support

Developer

ErlangPro

development
deployment
maintenance
monitoring
distributed configurations
export monitroing data
management interfaces
log collection & analysis
issue tracking
user access management
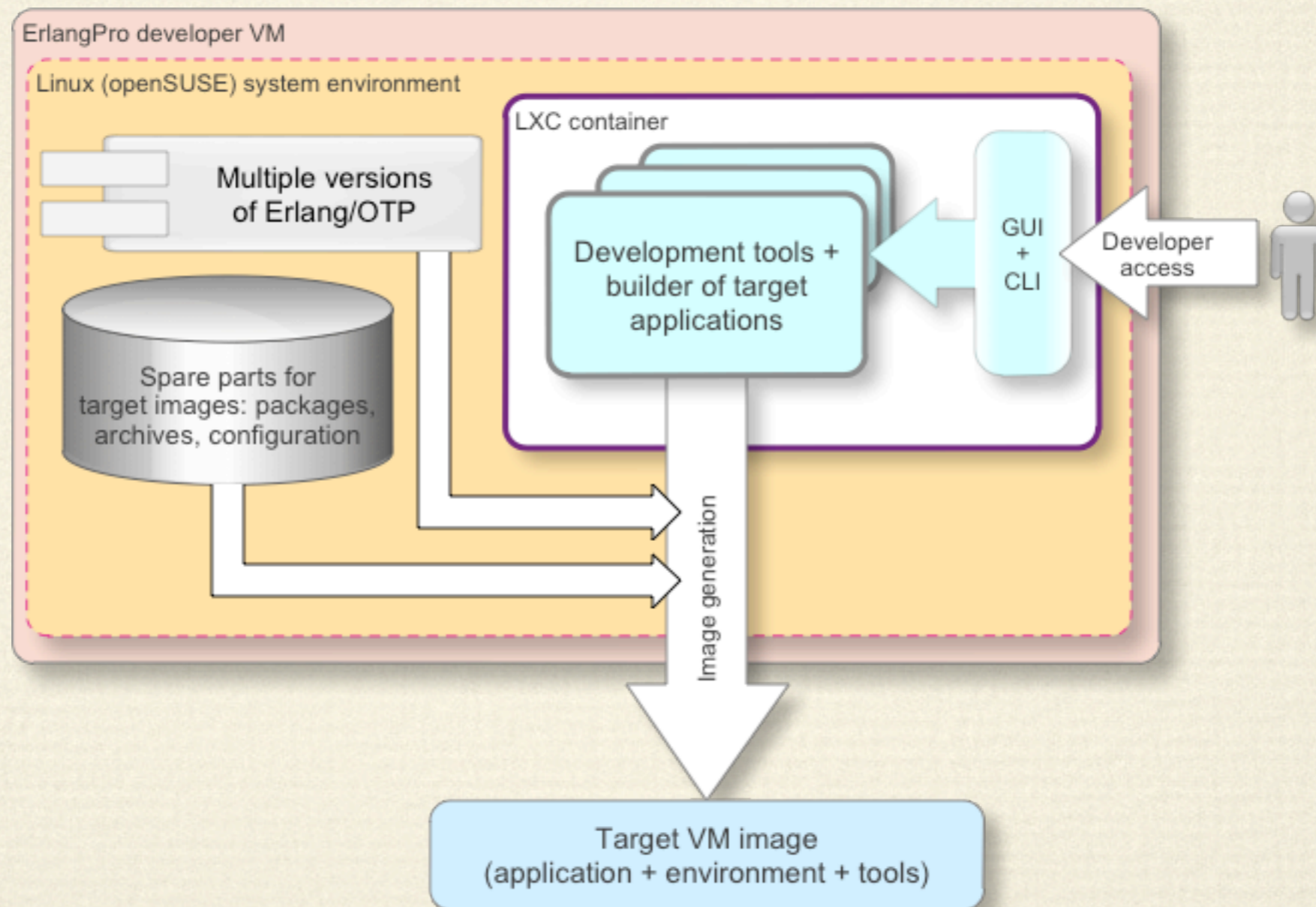resource management
resource accounting

...

Our solution

Developer's perspective

- Generator of virtual appliances

- Repositories with Massive's part: Erlang/OTP(s), MMCS, etc

- Collection of spare parts for image generation

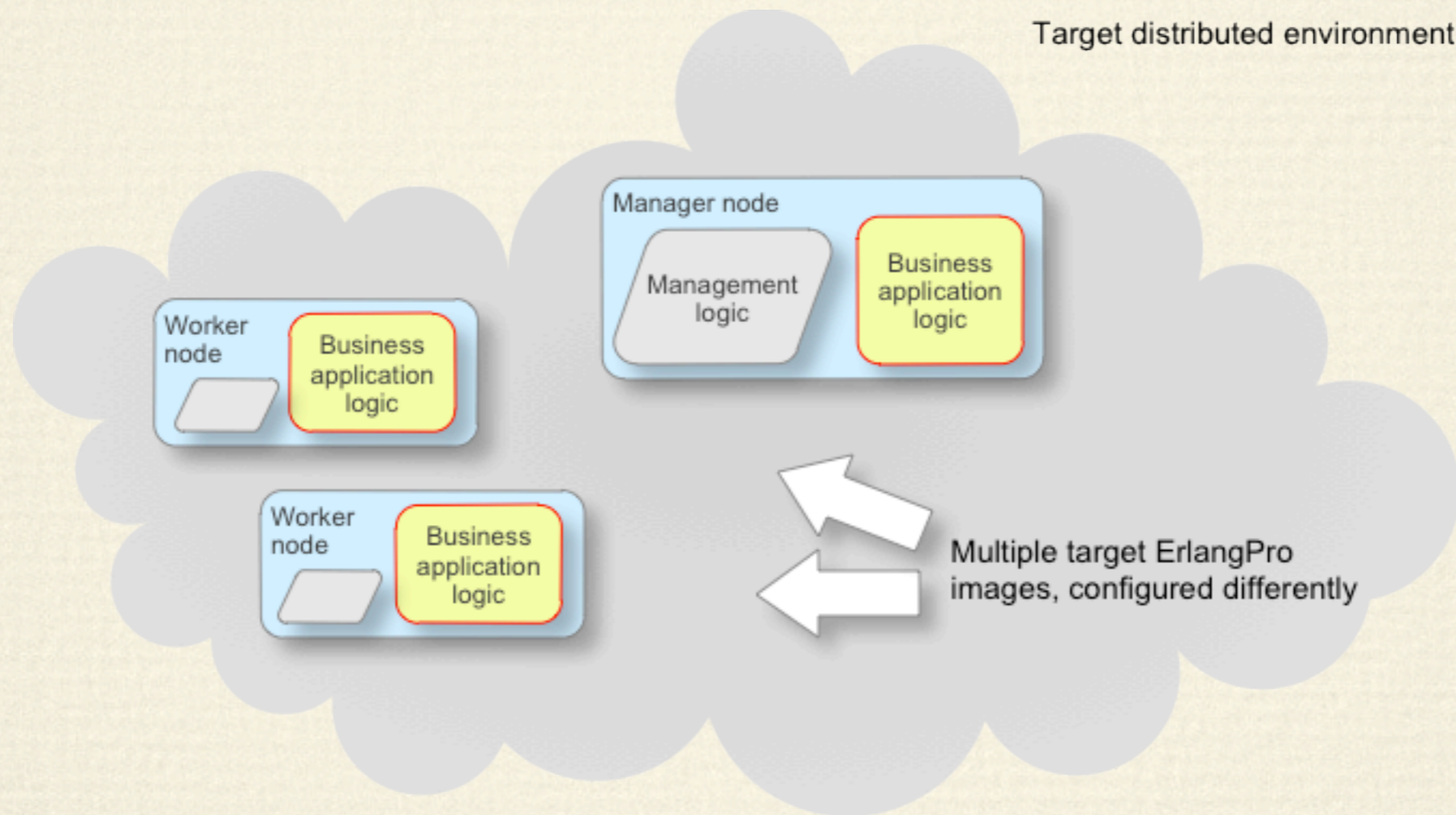- Support major hypervisors and physical nodes
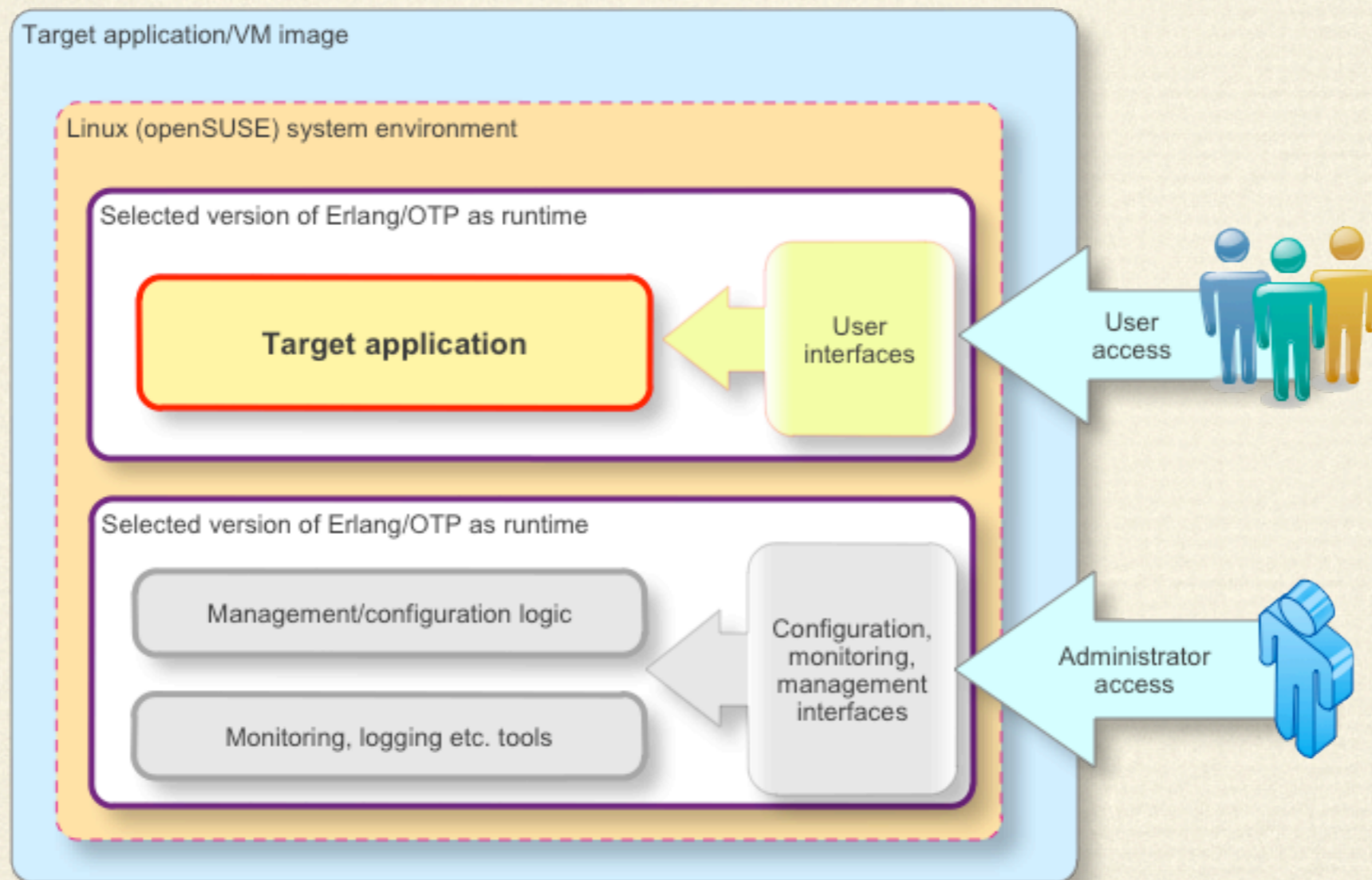
Developer's perspective

Integrator's perspective

- Single-image deployment scheme

- Deployment to clouds or to physical clusters

- Automated start of distributed configurations

- Single management console (CLI and Web GUI)

- Single source of configuration for all components (dconf)

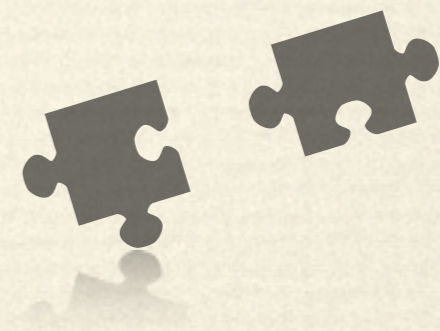- Monitoring of everything, filters and automated actions

Integrator's perspective

Target distributed environment

Manager node
Management logic
Business application logic

Worker node
Business application logic

Worker node
Business application logic

Multiple target ErlangPro images, configured differently

Guts

Guts

- Basic Linux (currently OpenSUSE-based)

- Fully isolated environments:

  - Erlang app(s)

  - Management logic

- Connected repos

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Maintenance

- Monitoring of all everything

- Customised alerts

- Automated actions

- Embedded logfile analysis tools

- Export monitoring data

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Maintenance: GUI example

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Usecases

- Simple deployment of distributed applications:

  - ejabberd

  - Riak

  - RabbitMQ

- Or anything else (your app?)

APPROVED

CERTIFICATE

Tuesday, 27 March 2012

Current status
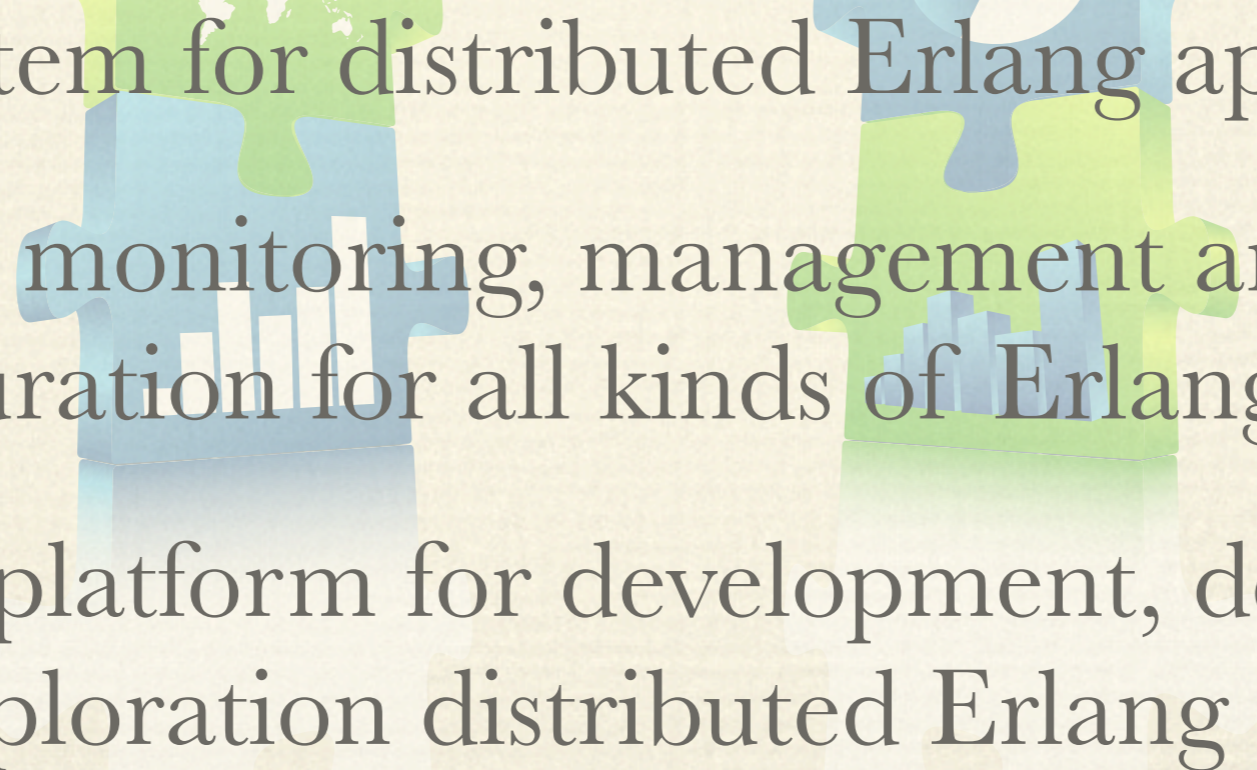
- Development started in December 2011

- Downscaling is in progress

- Main functionality is implemented

- Tailoring of CLI, GUI, APIs is being continued

- Developer VM had been used to produce production Target VMs

- There are a lot of plans to be voiced after official release
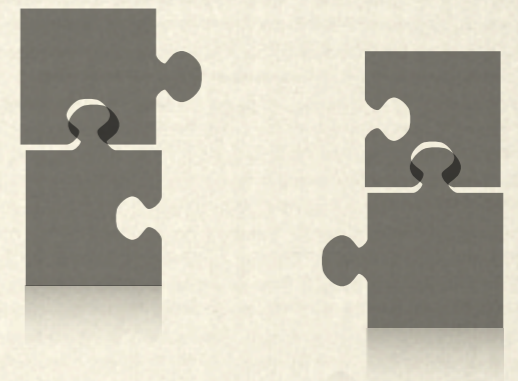
Summary

- Ecosystem for distributed Erlang applications

- Proven monitoring, management and configuration for all kinds of Erlang software

- Single platform for development, deployment and exploration distributed Erlang apps