Creating customized openSUSE versions with SUSE Studio

Cornelius Schumacher
Daniel Bornkessel

SUSE Linux Products GmbH

Novell

Overview

SUSE Studio Overview

Demo

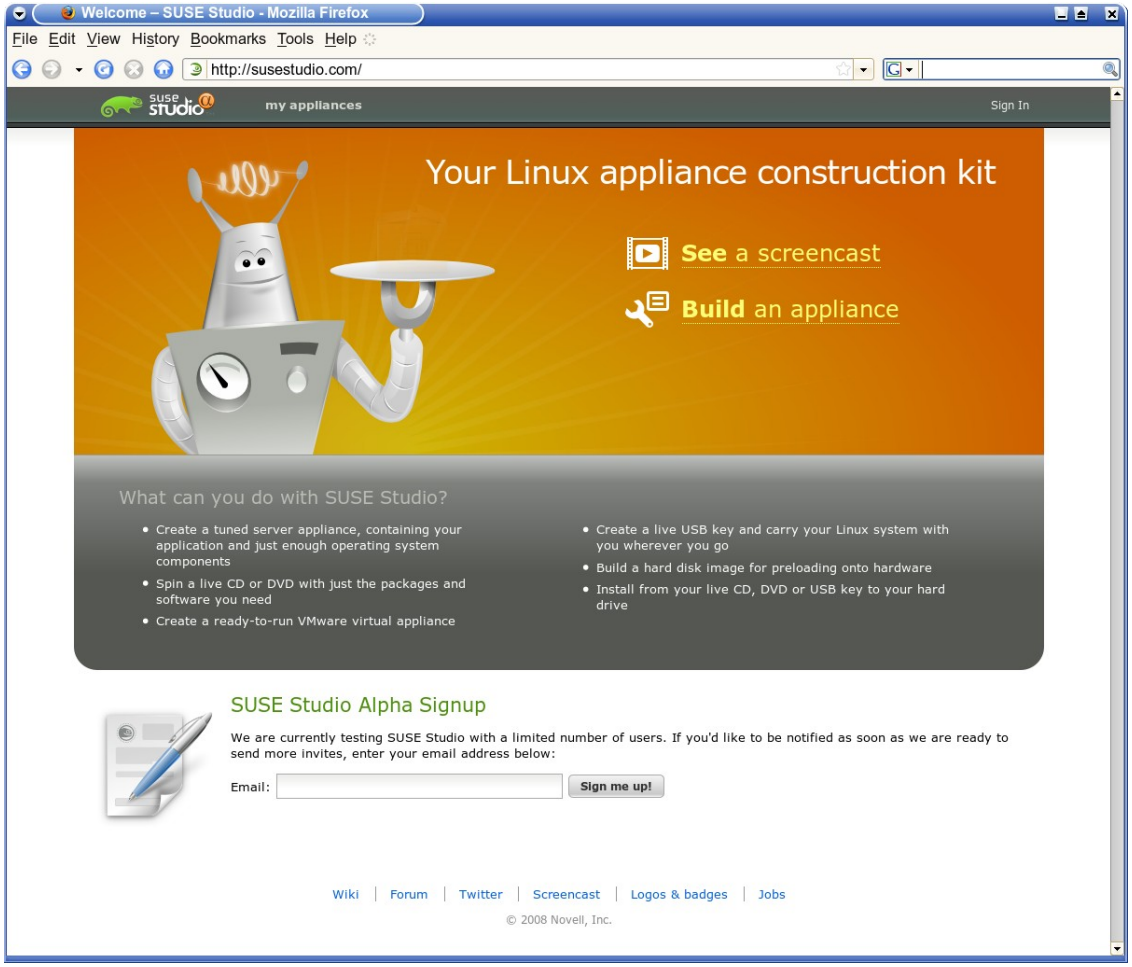
More appliances

© February 13, 2009 Novell Inc.

Novell

SUSE Studio Overview

SUSE Studio



© February 13, 2009 Novell Inc.

Vision

- Enable community to maintain customized openSUSE versions

- Create and share customized Linux distributions and software appliances

(appliance: application bundled with complete required software stack including operating system and configuration)

- Easy
- Fast
- Accessible to everybody

© February 13, 2009 Novell Inc.

Use cases

- Live CDs, DVDs (Mono)
- Live USB sticks (openSUSE with KDE 4.2)
- Demo CDs (Kraft)
- Server appliances (LAMP server)
- Installation images for specific hardware (Eee PC)
- Customized distribution (Grandma's openSUSE)
- Specially targeted distributions (Edu-CD)
- Conference CDs (FOSDEM presentations)
- ...

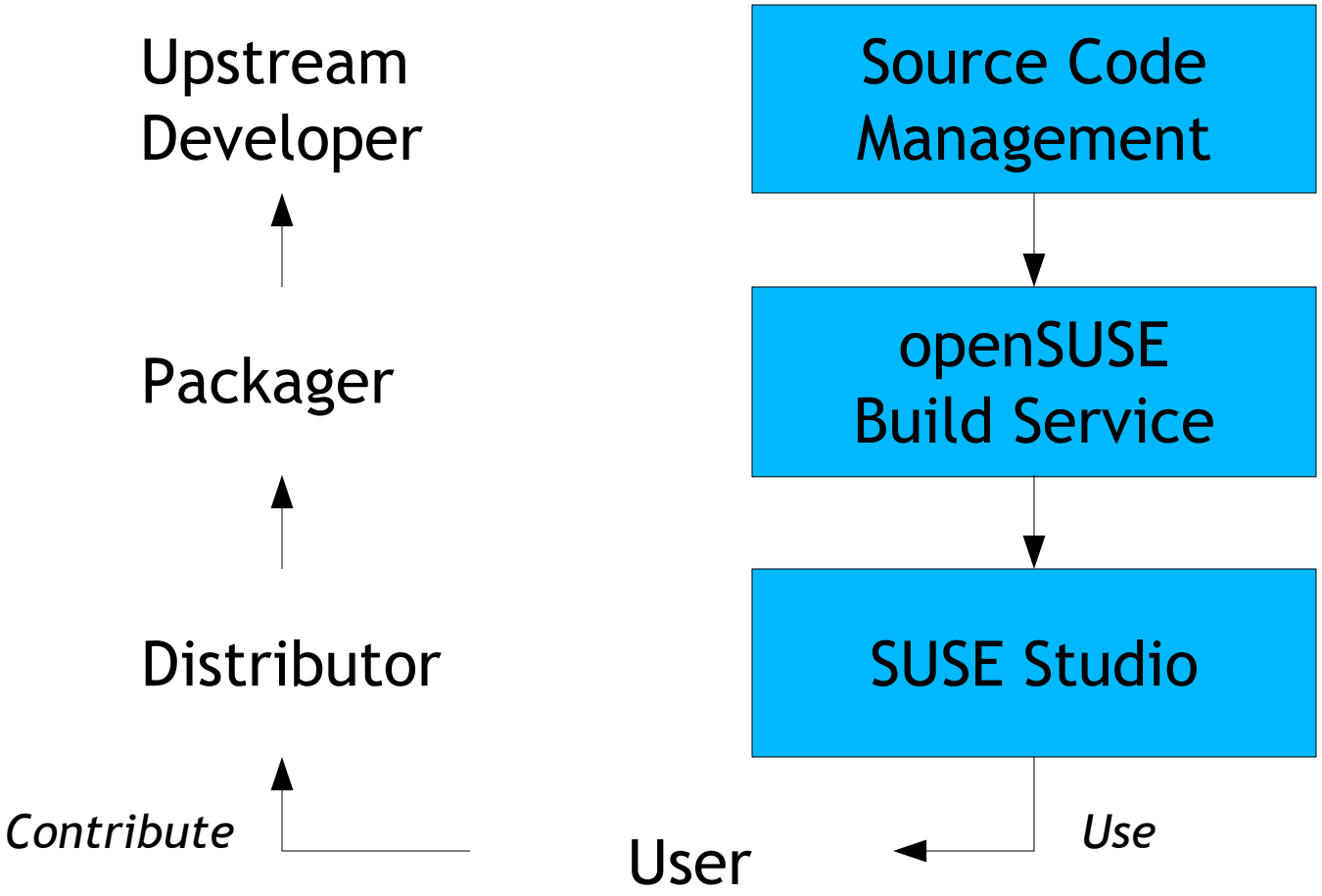
© February 13, 2009 Novell Inc.

SUSE Studio

- Web application
  - Building and testing appliances on the server
- Focus on great user interface
- Appliances get created by cloning of templates and other existing appliances
- openSUSE Build Service integration

© February 13, 2009 Novell Inc.

Contribution Stack



© February 13, 2009 Novell Inc.

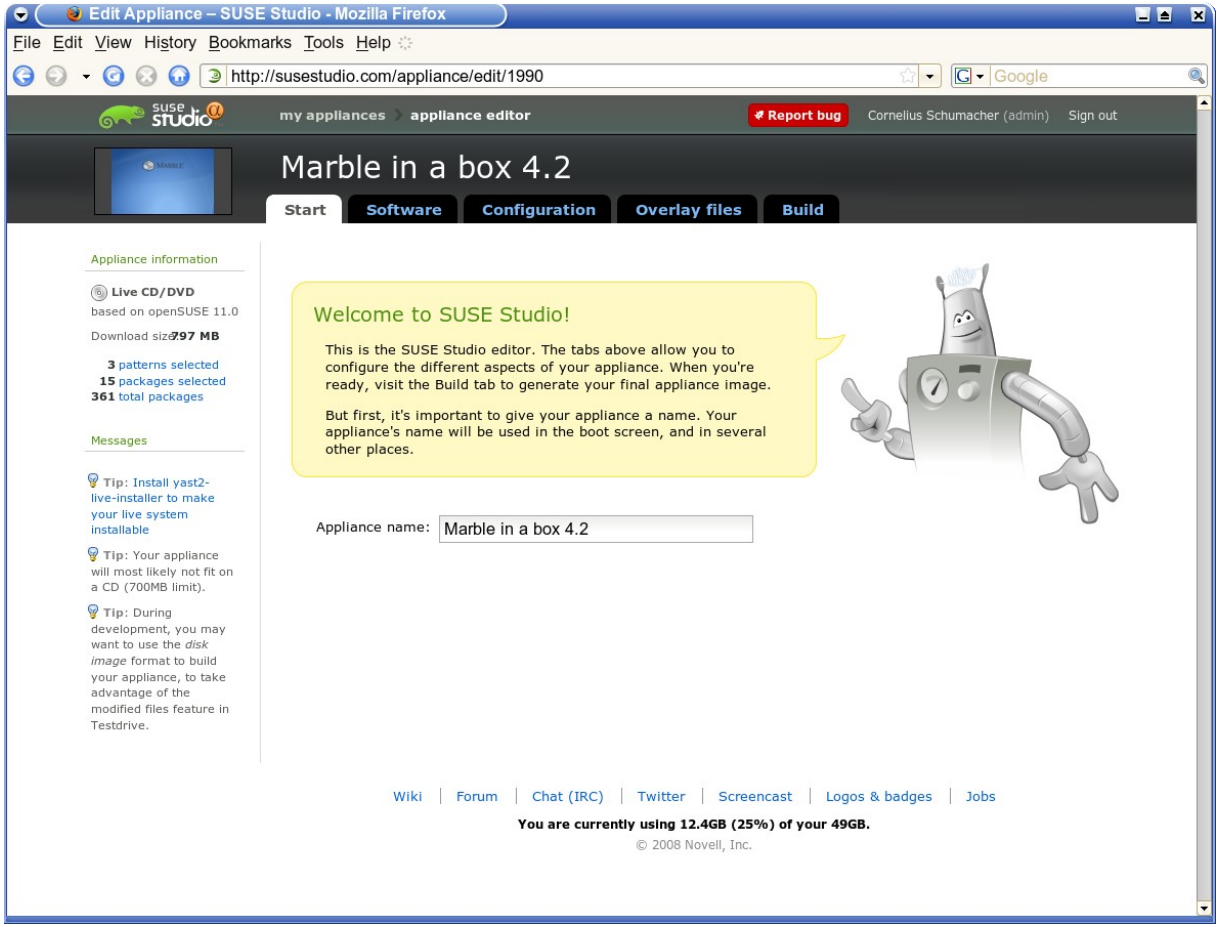
Novell

SUSE Studio Workflow

Create – Test - Share

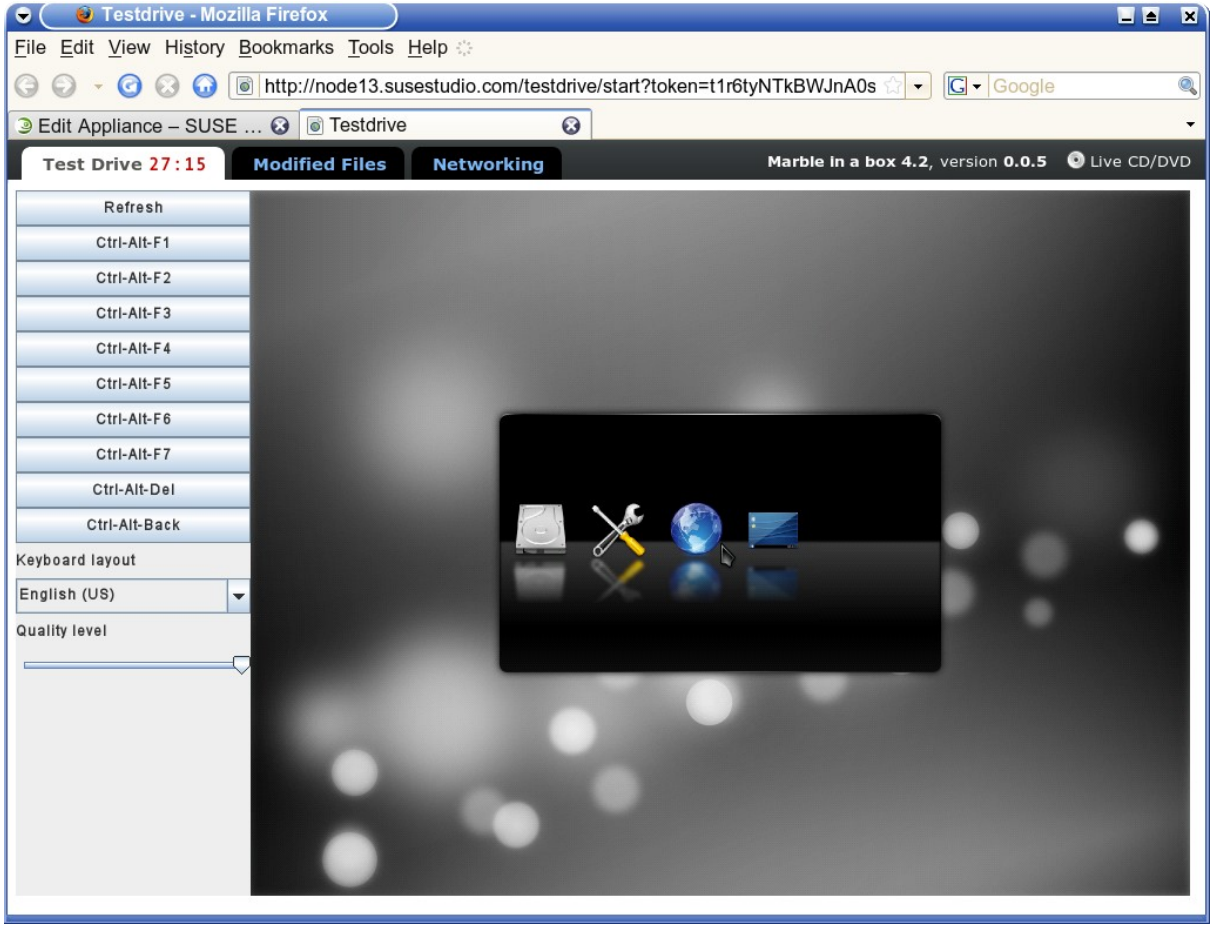
© February 13, 2009 Novell Inc.

Create



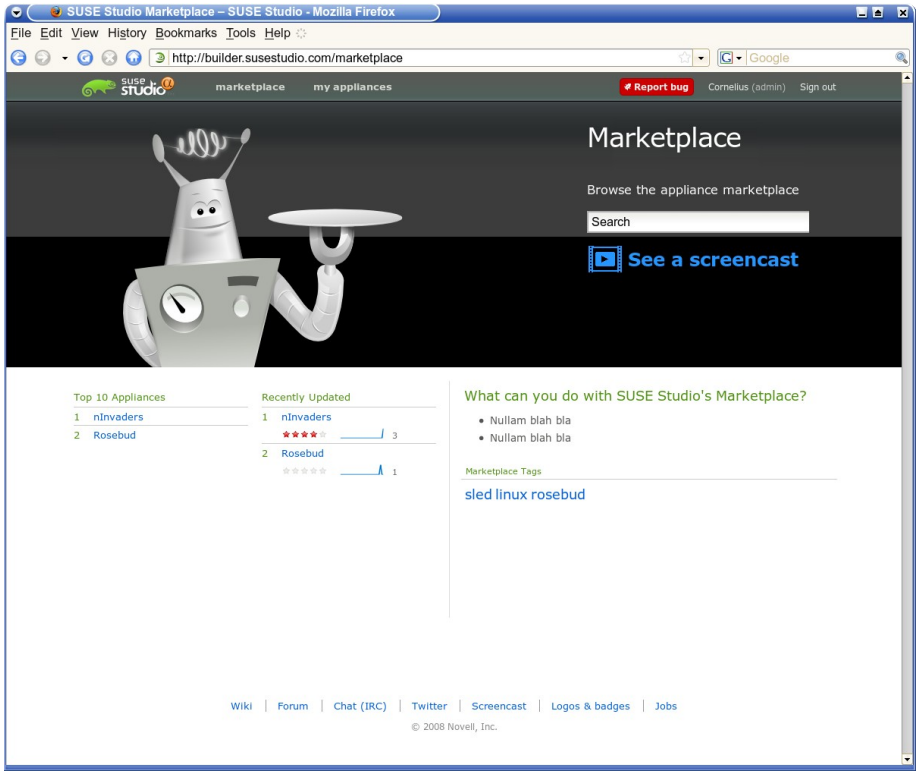
© February 13, 2009 Novell Inc.

Test



© February 13, 2009 Novell Inc.

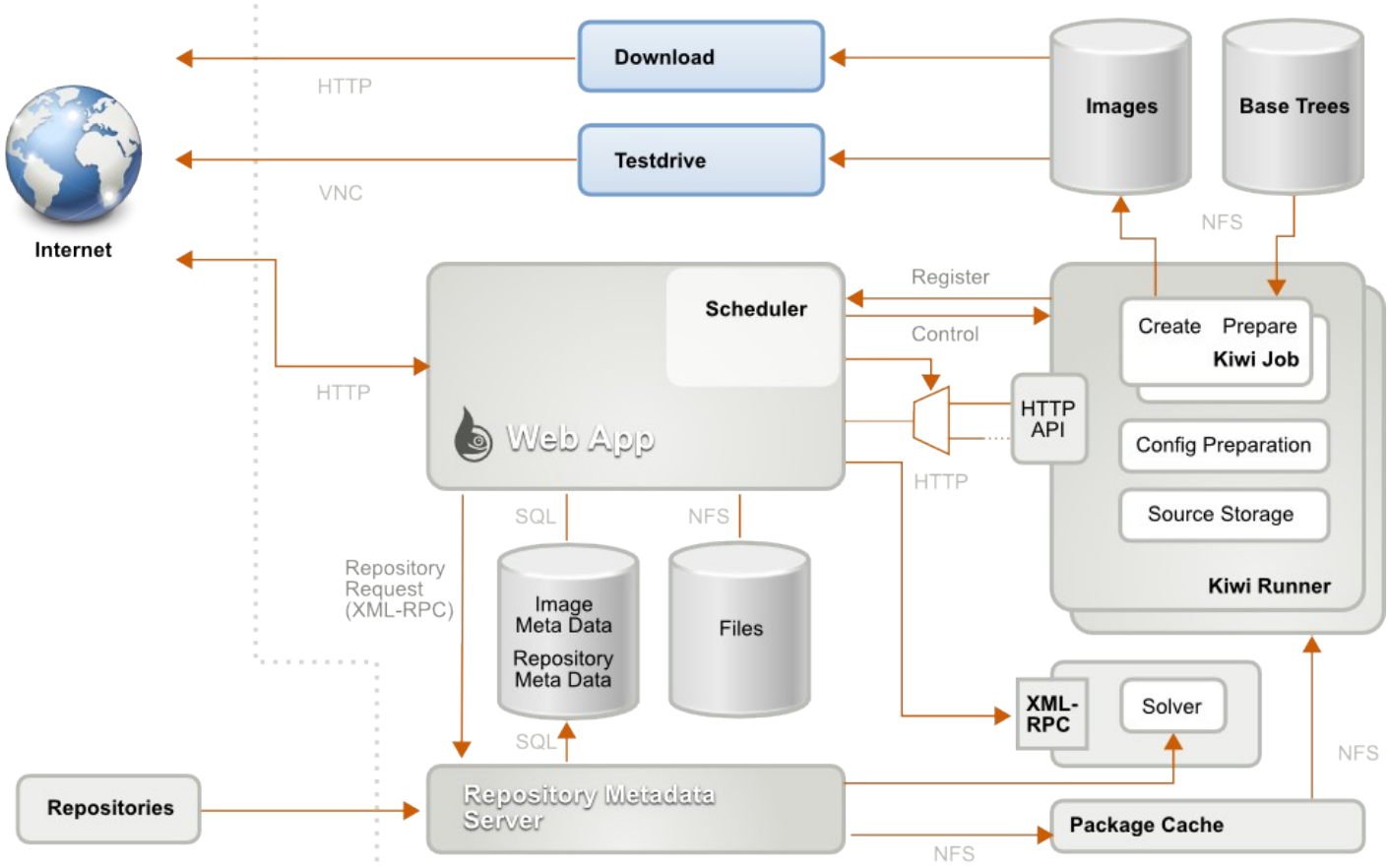
Share



(under construction)

© February 13, 2009 Novell Inc.

Architecture



© February 13, 2009 Novell Inc.

Novell

Implementation

- Kiwi
- Rails
- KVM
- libsatsolver
- OpenID

KIWI

© February 13, 2009 Novell Inc.

Demo

More Appliances

More Appliances

© February 13, 2009 Novell Inc.

Novell

Conclusion

- http://susestudio.com
- Currently we run an Alpha for invited users
- Mailing list: studio-users@listx.novell.com
- IRC: #susestudio on freenode
- Meet us at the openSUSE booth

© February 13, 2009 Novell Inc.

Novell®

General Disclaimer

This document is not to be construed as a promise by any participating company to develop, deliver, or market a product. Novell, Inc., makes no representations or warranties with respect to the contents of this document, and specifically disclaims any express or implied warranties of merchantability or fitness for any particular purpose. Further, Novell, Inc., reserves the right to revise this document and to make changes to its content, at any time, without obligation to notify any person or entity of such revisions or changes. All Novell marks referenced in this presentation are trademarks or registered trademarks of Novell, Inc. in the United States and other countries. All third-party trademarks are the property of their respective owners.

This work is licensed under the Creative Commons Attribution-Noncommercial-Share Alike 2.5 License. To view a copy of this license, visit http://creativecommons.org/licenses/by-nc-sa/2.5/.

For other licenses contact author.

Novell