

# SUSE Studio: Maßgeschneidertes Linux für Jedermann

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**Novell.**



# Überblick

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- Was ist SUSE Studio?
- Was kann ich damit machen?
- Wie benutze ich es?
- Wie funktioniert es?
- Wie bekomme ich Zugang zu SUSE Studio?

Einführung



# SUSE Studio

[dev] Welcome - SUSE Studio - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3000/

suse studio beta Create account / Sign In

## Custom Linux, fast & simple

Build an appliance — or your own custom Linux distro — with a few mouse clicks. Customize it to your heart's content, and share it with the world!

### SUSE Studio builds:

- Your software and everything it needs, in one appliance
- Demo CDs, perfect for tradeshows and hand-outs
- All sorts of things you can dream up!

### Supported formats

- Live CD/DVD
- VMware image
- Hard disk / USB image
- Xen

### This week

6 appliances built

[Help](#) | [Forum](#) | [Twitter](#) | [Screencast](#) | [Logos & badges](#) | [Privacy](#)

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Done

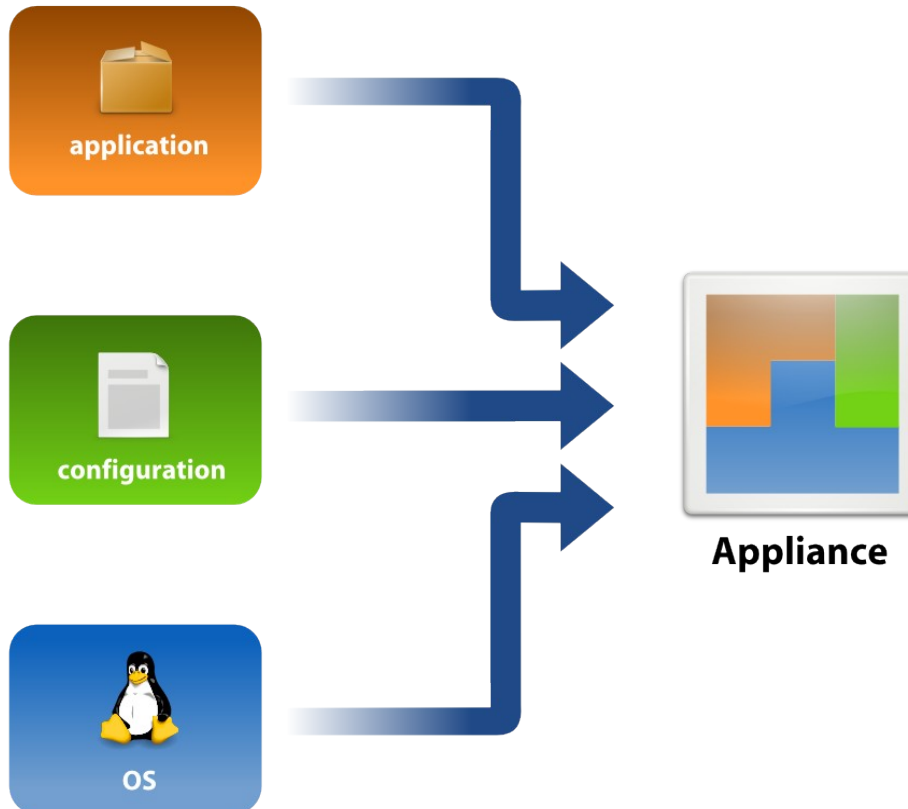


# Vision

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- “Mein eigenes Linux”
- Einfach
- Schnell
- Für jeden zugänglich
  
- openSUSE-Variationen
- Spezialisierte Systeme
- Virtuelle Appliances

# Appliances



- Live Media
- Disk Images
- Virtuelle Appliances
  - VMware
  - Xen



# Vorteile von Appliances

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- Einfach in Betrieb zu nehmen
- Kleine Systeme
- Keine Software-Installation und Konfiguration durch User
- Definierter Inhalt
- Definierte Systemumgebung
- Leicht zu warten

# Beispiel-Anwendungen

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- Demo-Medien (Marble Live-CD, Mono Demo-DVD)
- Live USB-Sticks (openSUSE mit KDE 4.2)
- Installations-Medien für spezielle Hardware (EeePC)
- Server-Appliances (LAMP-Server)
- ...







# Appliance-Erstellung (traditionell)

The image displays a grid of screenshots from the Novell SUSE Linux Appliance Builder (SLAB) interface, illustrating the traditional process of creating a Linux appliance. The screenshots are arranged in two rows of four panels each.

**Top Row:**

- Panel 1:** Shows the 'Definition Controller Usage FCI' configuration page, including sections for 'Overview' and 'Setting up to use the Distribution Constructor'.
- Panel 2:** Displays 'Common Usage Examples' with a list of tasks and their corresponding commands.
- Panel 3:** Shows 'Common Customization Tasks' with a list of tasks and their corresponding commands.
- Panel 4:** Displays 'Example 1' with a code snippet for customizing the system.

**Bottom Row:**

- Panel 1:** Shows 'The Simplest Usage Case' with a list of tasks and their corresponding commands.
- Panel 2:** Displays 'Finalizer Script Examples' with a list of tasks and their corresponding commands.
- Panel 3:** Shows 'Example 2' with a code snippet for customizing the system.
- Panel 4:** Displays 'Example 3' with a code snippet for customizing the system.



# Appliance-Erstellung (SUSE Studio)

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# SUSE Studio

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- Web-Anwendung
- Einzige Systemvoraussetzung: Web-Browser
  
- Einfacher Workflow
  - Create
  - Test
  - Share

Demo



# Demo

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Anwendungs-Beispiel:

Linuxtag Konferenz-CD

[dev] Create new appliance – SUSE Studio - Mozilla Firefox

File Edit View History Bookmarks Tools Help







http://localhost:3000/appliance/create\_new

SUSE studio beta

Report bug Home Cornelius Sign out

### Choose a base template

openSUSE 11.1

-  **Just enough OS (JeOS)**  
Tiny, minimalistic appliances
-  **Server**  
A text-only base
-  **Minimal X**  
Graphical system + IceWM
-  **GNOME desktop**  
Base system + GNOME
-  **KDE 4 desktop**  
Base system + KDE 4
-  **KDE 3 desktop**  
Base system + KDE 3

### Select your architecture

32-bit  64-bit

### Name your appliance

(This can be changed later)

[Help](#) | [Forum](#) | [Chat \(IRC\)](#) | [Twitter](#) | [Screencast](#) | [Logos & badges](#) | [Privacy](#)

You are currently using 1.5GB (10%) of your 15GB.

Done


[dev] Edit Appliance – SUSE Studio - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3000/appliance/edit/9#tab-software

Send feedback

### Linuxtag Live CD



**Disk image**

Based on: openSUSE 11.1  
Platform: 32-bit PC

Used space: **1.06 GB**  
Download size: **310 MB**

3 patterns selected  
17 packages selected  
408 total packages

### Software changes

Added **kde4-okular** Undo

Added 8 packages, totaling 43.6 MB  
[View details...](#)

## Software sources

[openSUSE 11.1 OSS](#), [openSUSE 11.1 Updates](#)

[+ Add repositories...](#) [+ Upload RPMs...](#)

## Selected software

Patterns: [base](#), [kde4](#), [x11](#)

Packages: [bootsplash-branding-openSUSE](#), [dbus-1-x11](#), [kde4-kdm](#), [kde4-kdm-branding-openSUSE](#), [kde4-okular](#), [kernel-default](#), [less](#), [mdadm](#), [sax2](#), [SuSEfirewall2](#), [vim](#), [x11-tools](#), [xorg-x11-server](#), [yast2](#), [yast2-firstboot](#), [yast2-ncurses](#), [zypper](#)

[+ Quick add...](#)

## Search for software

Q okular × Show: [All repositories](#)

[← Back to all groups](#) Search: **okular** (2) Add all

Action	Name	Version	Size	Repository	Popularity
<a href="#">- remove</a>	✓ <a href="#">kde4-okular</a>	4.1.3-4.7	3.3 MB	openSUSE 11.1 OSS	<div style="width: 100%;"></div>
<a href="#">+ add</a>	<a href="#">kde4-okular-devel</a>	4.1.3-4.7	221.6 KB	openSUSE 11.1 OSS	

Items per page: [20](#) [50](#) [100](#)

[Jump to the top](#)

Done

[dev] Edit Appliance – SUSE Studio - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3000/appliance/edit/9#tab-build


SUSE studio beta

Report bug Home Cornelius Sign out

Start Software Configuration Overlay files **Build** Admin

Send feedback

### Linuxtag Live CD



**VMware Image**

Based on: openSUSE 11.1  
Platform: 32-bit PC

Used space: **1.06 GB**  
Virtual disk: **16 GB**  
Download size: **310 MB**

3 patterns selected  
17 packages selected  
408 total packages

### Messages

Tip: Add VMware GUI tools to your appliance


Tip: Add VMware console tools to your appliance

## Create appliance

Format: VMware virtual machine

Version (?):

## Builds

 <b>Version 0.0.1</b>	Setting up build environment	0:16	<input type="button" value="x"/>
--	------------------------------	------	----------------------------------

Builds older than seven days may be deleted to free up space on our servers. But don't worry, you can rebuild them at any time.

[Help](#) | [Forum](#) | [Chat \(IRC\)](#) | [Twitter](#) | [Screencast](#) | [Logos & badges](#) | [Privacy](#)

**You are currently using 1.5GB (10%) of your 15GB.**

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Send feedback

### Linuxtag Live CD



#### VMware Image

Based on: openSUSE 11.1  
Platform: 32-bit PC

Used space: **1.07 GB**  
Virtual disk: **16 GB**  
Download size: **310 MB**

3 patterns selected  
17 packages selected  
408 total packages

#### Messages

Tip: Add VMware GUI tools to your appliance

Tip: Add VMware console tools to your appliance

[Jump to the top](#)

- General
- Personalize**
- Startup
- Server
- Desktop
- Storage & memory
- Scripts

## Appliance logo



Upload new logo...

## Appliance background



Upload new background...

## Preview



Testdrive - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3002/testdrive/start?token=dS4ckSTpM8BwJSLZLq5h&plugin=flash


[dev] Edit Appliance - SUS... Testdrive

suse studio™

Test Drive 59 : 19 Modified Files Networking: off Linuxtag Live Stick, version 0.0.1 Disk image

Ctrl-Alt-F1  
Ctrl-Alt-F2  
Ctrl-Alt-F3  
Ctrl-Alt-F4  
Ctrl-Alt-F5  
Ctrl-Alt-F6  
Ctrl-Alt-F7  
Ctrl-Alt-De l  
Ctrl-Alt-Back

Keyboard layout:  
English (US)



BUILT WITH suse studio™

Done

Testdrive - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3002/testdrive/start?token=dS4ckSTpM8BwJSLZLq5h&plugin=flash

[dev] Edit Appliance – SUS... Testdrive

SUSE studio™ Test Drive 54 : 28 Modified Files Networking: off Linuxtag Live Stick, version 0.0.1 Disk image

Exclude paths containing:  (leave empty to exclude nothing)

Include paths containing:  (leave empty to include everything)

Include change types:  Add  Modify  Chmod  Chown  Remove

[Refresh Changes](#)

**Note:** You may need to run **sync** in your testdrive for filesystem changes to appear here.

---

**Changed files: 81, ordered by: time**

Page: 1 2 (items per page: 60 100 )

Type	Path	Last changed	Size	Actions
<input type="checkbox"/>	add /home/tux/.gconfd/saved_state	95 seconds ago	0 Bytes	
<input checked="" type="checkbox"/>	add /home/tux/.kde4/share/config/plasma-appletsrc	112 seconds ago	1.5 KB	<a href="#">View</a> , <a href="#">Download</a>
<input checked="" type="checkbox"/>	add /home/tux/.kde4/share/config/plasmarc	112 seconds ago	29 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.xsession-errors	118 seconds ago	16.1 KB	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.kde4/share/config/phonondevicesrc	2 minutes ago	25 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.gstreamer-0.10/registry.i686.bin	2 minutes ago	69.4 KB	<a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.kde4/share/config/kglobalshortcutsrc	2 minutes ago	7.2 KB	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.config/Trolltech.conf	2 minutes ago	8.2 KB	<a href="#">View</a> , <a href="#">Download</a>
<input checked="" type="checkbox"/>	add /home/tux/.kde4/share/config/SUSEgreeterrc	2 minutes ago	30 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.kde4/share/config/gtkrc-2.0	2 minutes ago	1.5 KB	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /home/tux/.kde4/share/config/gtkrc	2 minutes ago	1.4 KB	<a href="#">View</a> , <a href="#">Download</a>

Done

Testdrive - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://localhost:3002/testdrive/start?token=EBaVtXdjmm1cCTxOEEg5&plugin=flash

[dev] Edit Appliance - SUS... Testdrive

**suse studio™** Test Drive 59 : 46 Modified Files Networking: off Linuxtag Demo, version 0.0.4 Live CD/DVD

Ctrl-Alt-F1  
Ctrl-Alt-F2  
Ctrl-Alt-F3  
Ctrl-Alt-F4  
Ctrl-Alt-F5  
Ctrl-Alt-F6  
Ctrl-Alt-F7  
Ctrl-Alt-Del  
Ctrl-Alt-Back

Keyboard layout:  
English (US)

**LINUX TAG**

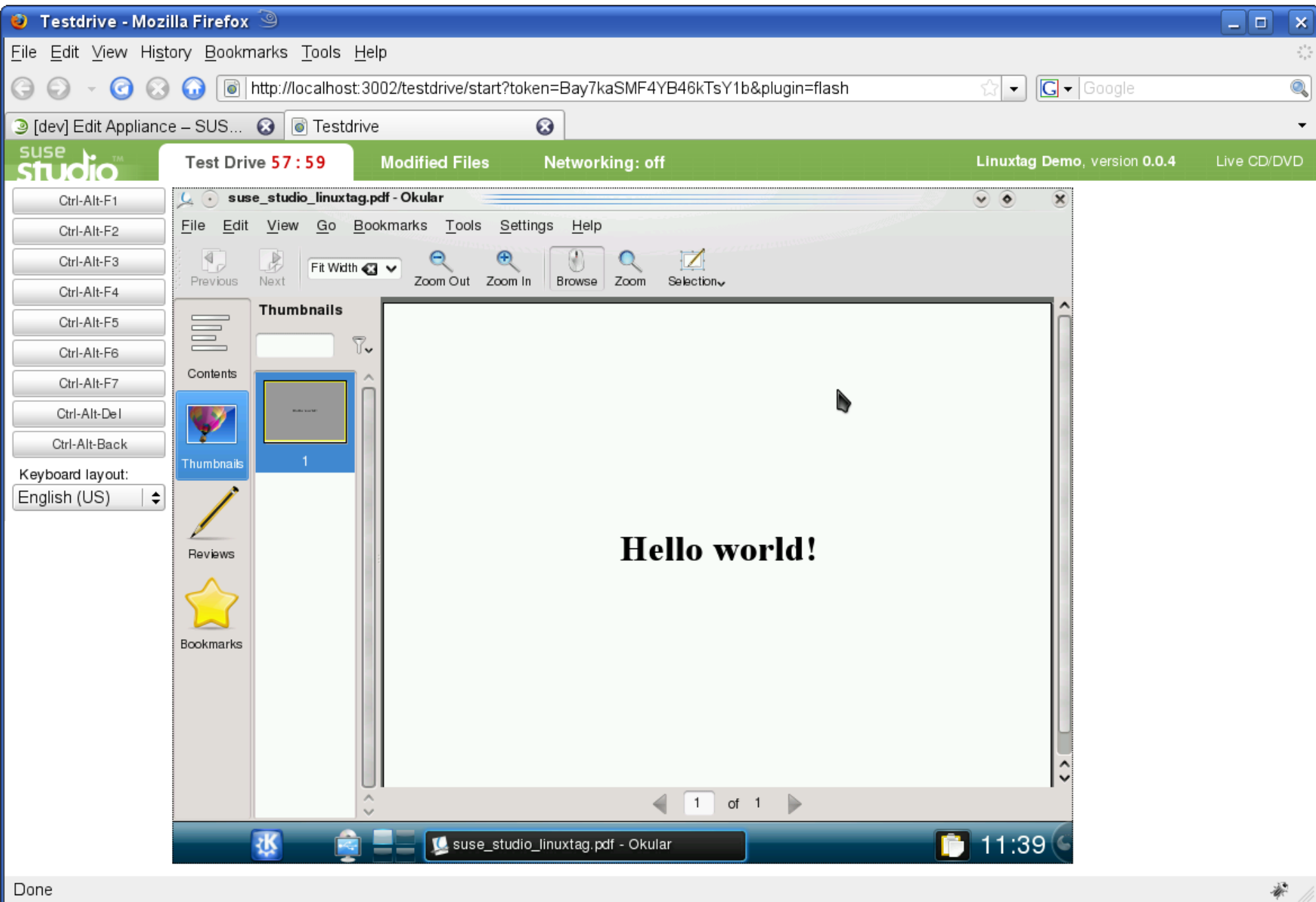
**Linuxtag Demo**  
Failsafe -- Linuxtag Demo  
Boot From Hard Disk  
Memory Test

Boot Options |

F1 Help F2 Language F3 Video Mode  
English (US) 800 x 600

BUILT WITH **suse studio™**

Done



Thumbnails

Contents

Thumbnails

1

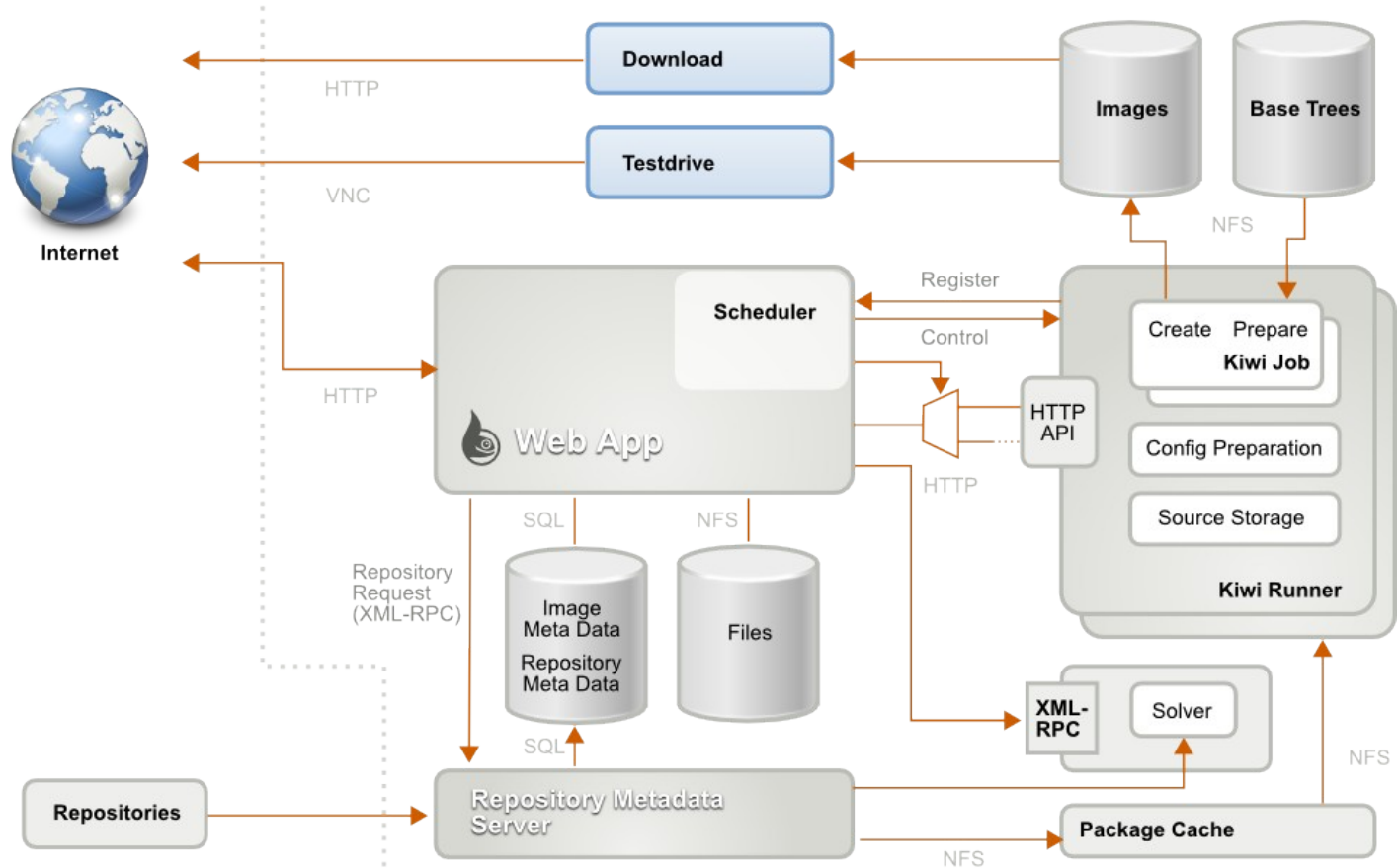
Reviews

Bookmarks

Hello world!

Hintergrund

# Architektur





# Implementation

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- SUSE JeOS
- Kiwi
- Rails
- KVM
- libsatsolver
- OpenID



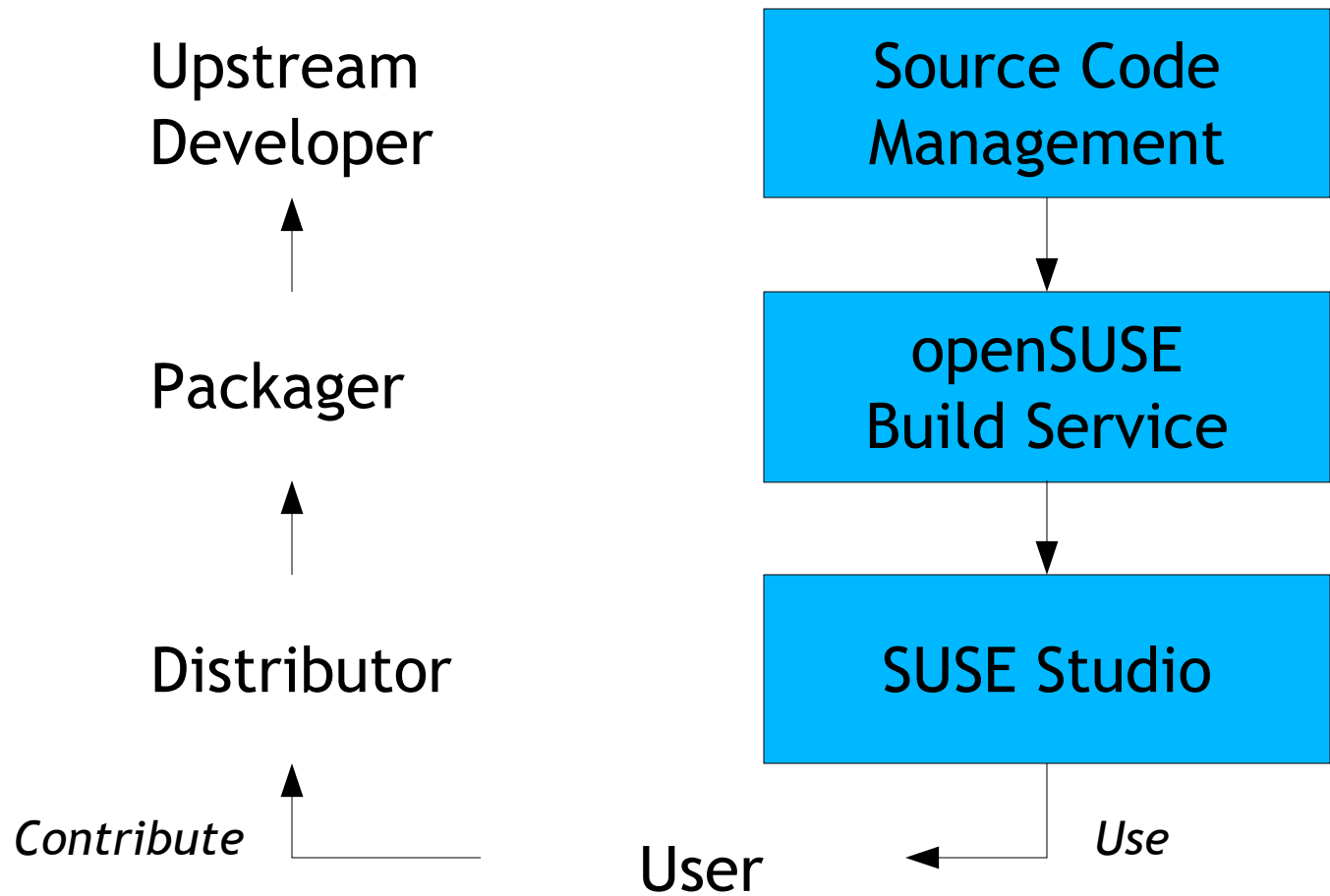
**KIWI**





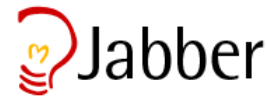


# Contribution Stack





# Anwender-Beispiele





# Anwendungsfälle

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- Live CDs, DVDs (Mono, Kraft, Marble)
- Live USB sticks (openSUSE mit KDE 4.2 oder KDE 4.3 Beta)
- Server appliances (LAMP-Server, Mediawiki, iFolder)
- Installations-Medien für spezielle Hardware (Eee PC)
- Angepasste Distributionen (Omas openSUSE)
- Distributionen für spezielle Anwendergruppen (Edu-CD)
- ...





# Beta-Programm

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- SUSE Studio ist in Beta-Phase
  - Registrieren für Einladung zum Beta-Programm
  - Beta-Programm für kommerzielle Kunden (ISVs, etc.)
- 
- <http://susestudio.com/login>



# Zukunft

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- Stabile Release
- Veröffentlichen von Appliances
- Community-Plattform für openSUSE-Appliances
  
- Feedback von Anwendern ist uns wichtig!



# Mehr Infos

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<http://susestudio.com>

Mailing list: [studio-users@listx.novell.com](mailto:studio-users@listx.novell.com)

IRC: #susestudio on freenode

Twitter: @susestudio



# SUSE Studio Zugang

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- Geben Sie mir Ihre Email-Adresse, und ich lade Sie ein.
- Registrieren auf [susestudio.com](http://susestudio.com)

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