

# Hızlı Sistem Kurulumu ve Yönetimi İçin Yeni Bir Yaklaşım: SUSE® Stüdyo™

**Özhan KARAMAN**

SUSE Linux ve Açık Platformlar Ürün Müdürü

Yöre Elektronik Yayımcılık A.Ş.

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CLA, CLP, CNI



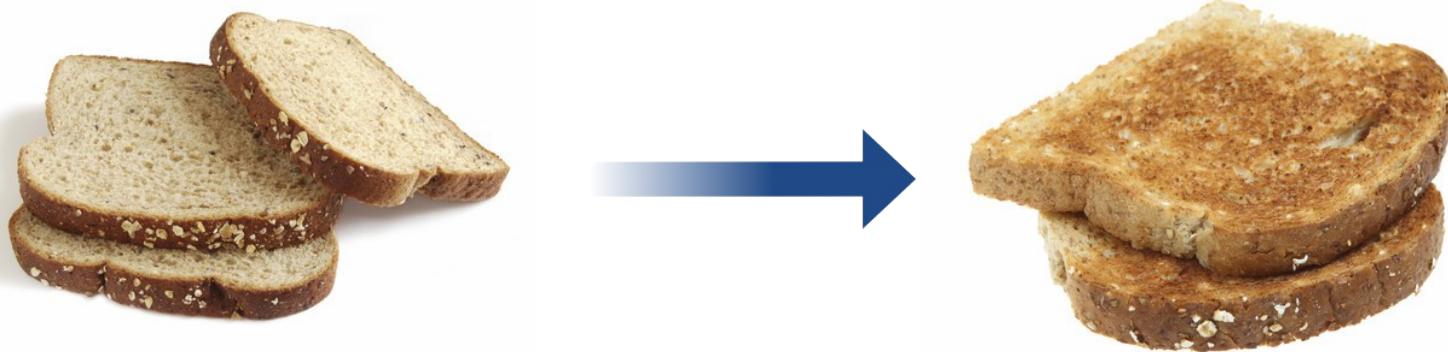
# Ajanda

- Hazır Cihaz Yaklaşımı ve neden SUSE® Stüdyo™
- SUSE Stüdyo ve tamamlayıcı bileşenleri
- Demo
- Soru ve Cevap



# Hazır Cihaz Yaklaşımı ve neden SUSE® Stüdyo™

**Birçok yöntem kullanılarak  
yapılabilir ...**





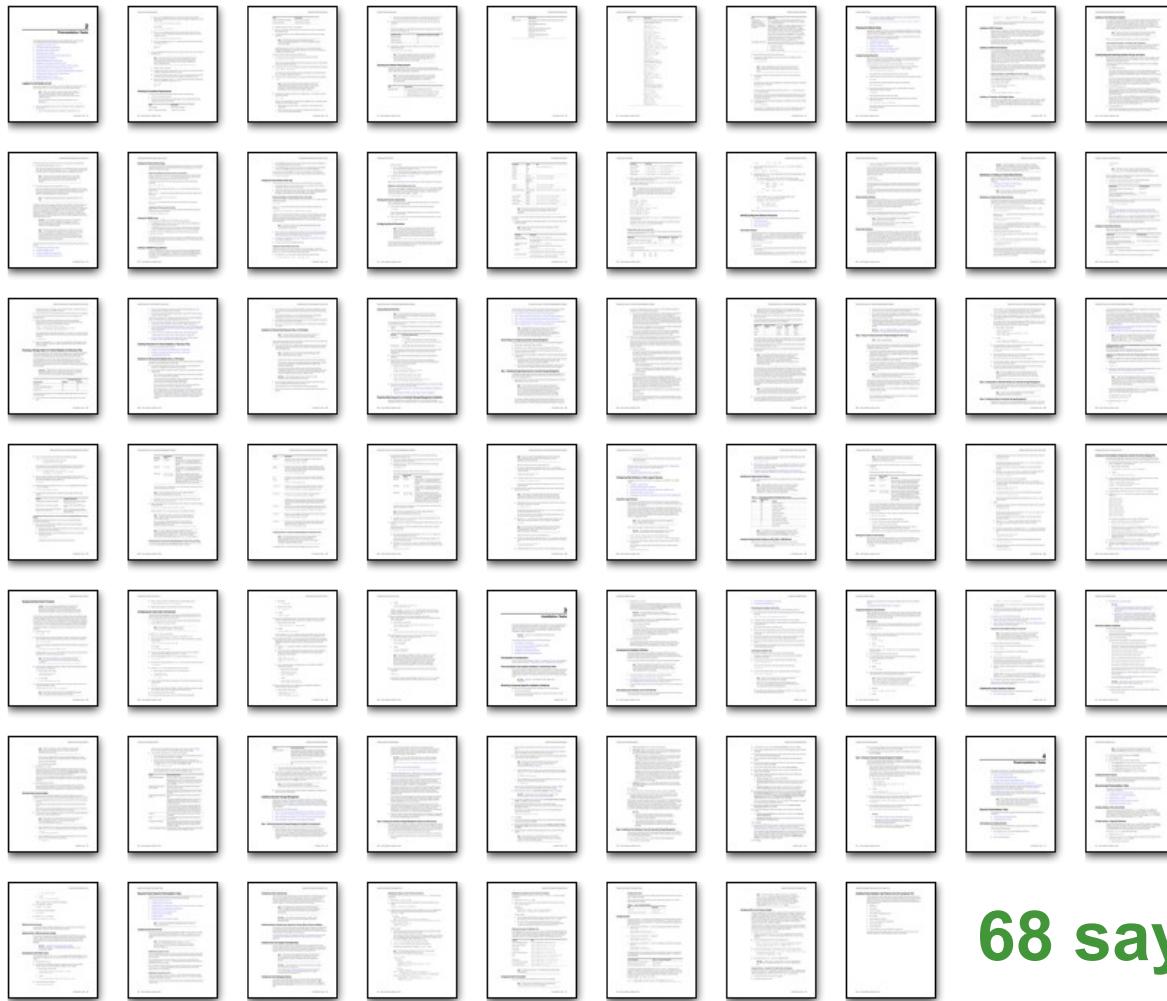
**.... minimum efor ile hep aynı  
kalitede yeni sistemler/cihazlar  
kurmaya hazır misiniz??**





Peki bu yaklaşım yazılım dünyası için  
ne demek?

# Genel Süreçlerin Anlatılması ...

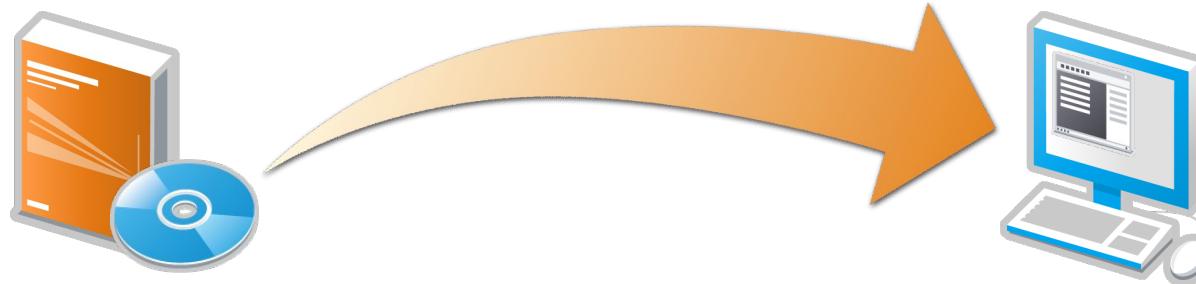


**68 sayfa!**

# ... Peki Yazılım için



# Yeni Yazılım Geçişleri, Kurulumları her zaman aynı kalitede ve hızda olmalıdır...



## Kurulum Öncesi

- Doğru İşletim Sistemi Sürümü
- İşletim Sistemine ait güncel yamalarının indirilmesi
- Yazılım bağımlılıklarının tespiti
- Konfigürasyonlar
- Klasörler
- Donanım Sertifikasyonu
- Destek Servisleri

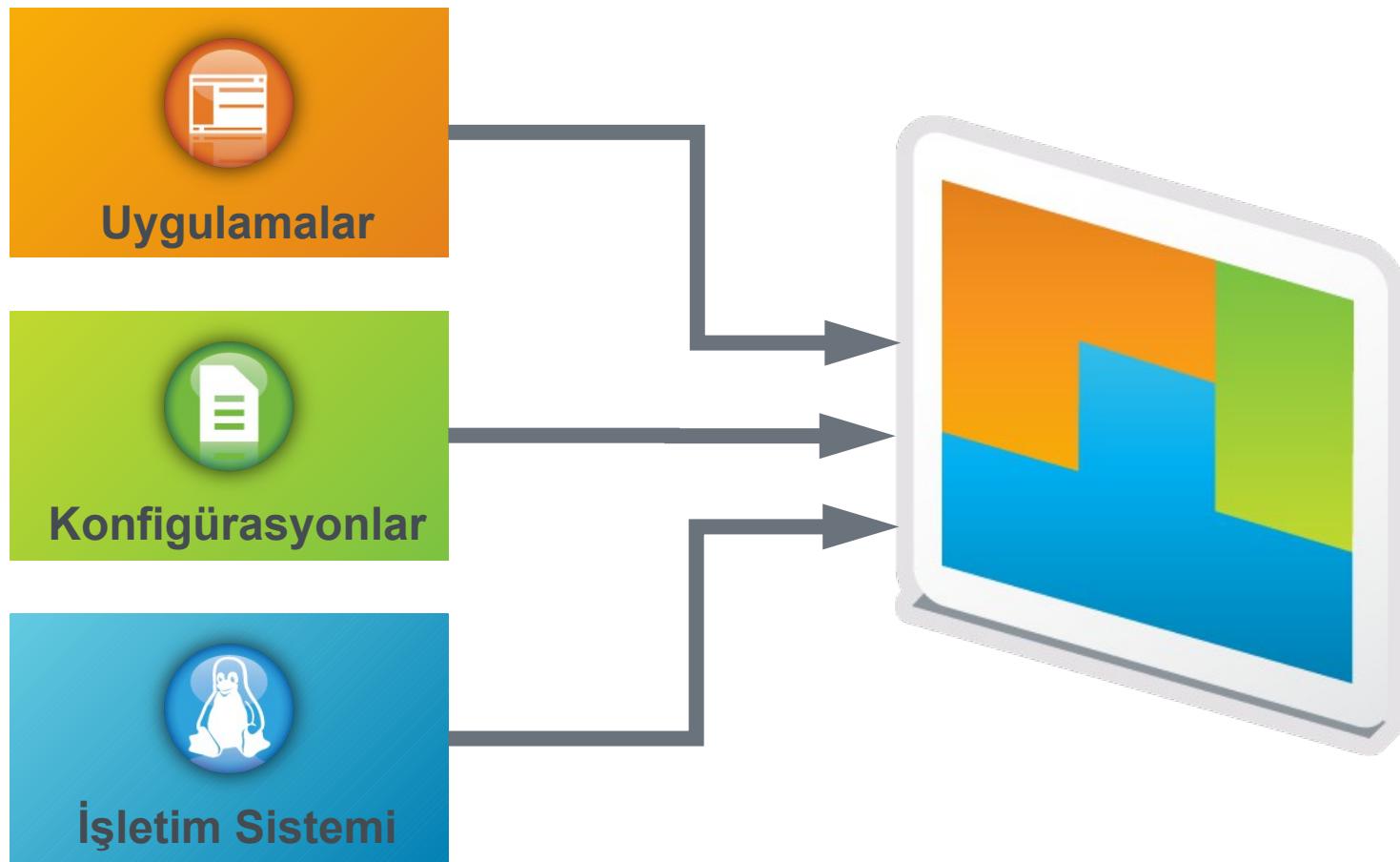
## Kurulum

- Dosya Sisteminin Yaratılması
- Modüllerin Derlenmesi
- Uygulama Kurulumları
- Erişim Hakları
- Kullanıcı ve Grupların Yaratılması
- Bug varsa ilgili bug üzerinde çalışma

## Kurulum Sonrası

- Güncellemeler
- Uygulamaların Konfigürasyonları
- Destek
- Güncelleme ve Yama Yönetimi

# Peki neden tüm adımları bir hamlede yapmalıyım?



# Cihazlar Kurulum ve Destek Maliyetlerinde Ciddi Tasarruf Sağlarlar



Entegre Tam  
Çözüm



Tek Bir Tuşa  
Basarak  
Kurulumu  
Başlatın



Farklı  
Platformlarda  
Kurulabilen  
Sistemler  
Hazırlayın



Sade,  
Basitleştirilmiş  
Destek ve  
Bakım  
Hizmetleri

# SUSE® Stüdyo™

## Bileşenler



Kur



Yönet



Bakım

### SUSE Stüdyo

Tüm kurulum işlemlerini yönetir, üstlenir

### Kiwi Desteği:

Kiwi desteği ile SUSE Stüdyo üzerinde hazırladığınız bir sistemi farklı mimarilere ve cihazlara uygun tipte imajlar oluşturun

### WebYaST:

Standard Web tarayıcısı üzerinden YaST fonksiyonalitesi sunar

### SUSE Lifecycle Management Server:

Hazırlamış olduğunuz cihazlar için yazılım güncellemerini yönetir ve birden çok yazılım deposu ile entegre olarak çalışabilir, satın alınan lisansları yönetir

# SUSE® Stüdyo™

Cihaz yaratmak için en hızlı, güvenli ve kolay yöntem

## SUSE Stüdyo Online

- Bedava Cihaz Kurulum ve Üretim Aracı
- Birkaç tıklama ile Linux Dağıtımları Hazırlama
- Temel İşletim Sistemi olarak SUSE Linux Enterprise (SLE) 11 SP1, SLE 10 SP4 ve openSUSE 12.1 sürümlerini sunmaktadır
- SUSE Linux Enterprise Server paketlerini özel tekniklerle ihtiyaçları çeşitli direcek şekilde alt paketlere bölerek, sistem kurulumu sırasında sadece ihtiyaç duyulan paketi yükleyen JeOS(Just Enough OS) ile daha efektif, güvenli ve hızlı sistemler hazırlama
- 32-bit (x86) ve 64-bit (x86\_64) mimaride sistemler oluşturulmaktadır
- İmaj çıktı formatı olarak Xen, KVM, VMware, VirtualBox, OVF, Live CD/DVD, Preload ISO, ve Amazon EC2 disk/usb imaj formatları desteklenmektedir
- Galeri Bölümü ile sizin veya başka kullanıcıların hazırladıkları cihazlar tüm kullanıcılar ile paylaşılmaktadır
- <http://susestudio.com> web adresinden deneyebilirsiniz.

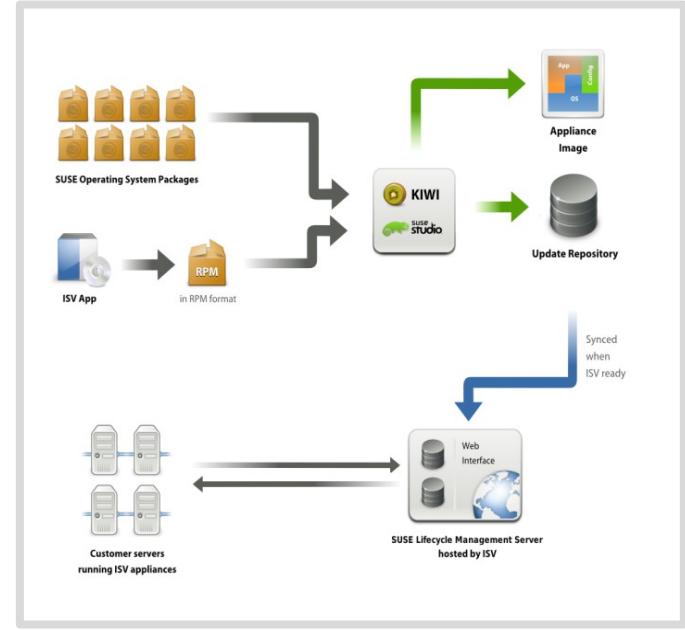
## SUSE Stüdyo Onsite 1.2

- SUSE Stüdyo'nun şirket içi kurulum şeklinde sadece size özel olarak tasarlanmış sürümüdür, direkt olarak lokal şirket içi bilgisayarlar üzerinde çalışır
- SUSE Stüdyo Online Sürümünün Özelliklerine Ek Olarak:
  - Main Frame Sistem Z İmajları oluşturabilme (zFCP and DASD)
  - Özel Cihazlarınızı belirli grup veya tekil kullanıcılar ile paylaşılabilme
  - Veri Merkezi kurulumu için PXE/Netboot Çıktısı ile daha kolay cihaz kurulumu



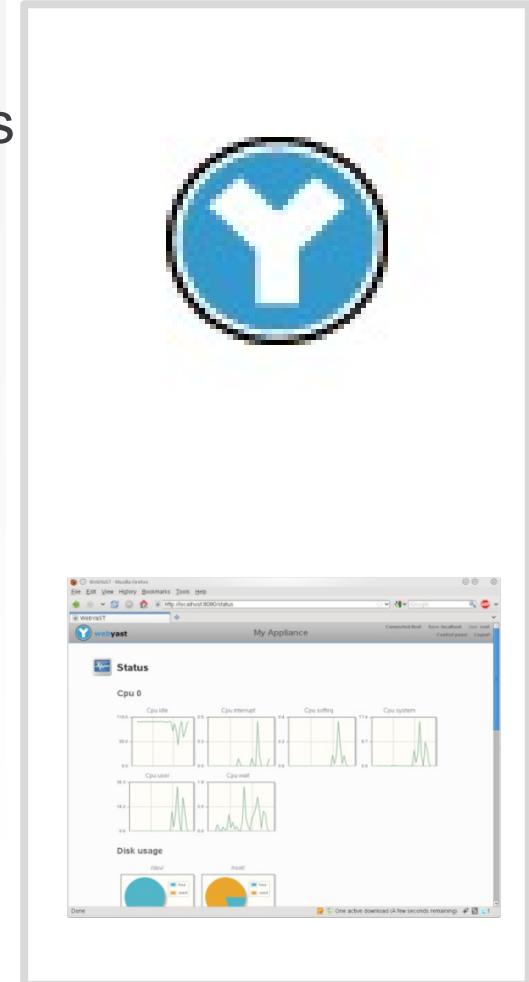
# SUSE® Lifecycle Management Sunucusu

- \* Kurulu cihazların bakım sözleşmelerini ve lisanslarını yönetin.
- \* Özelleştirilmiş ve bütünlükleştirilmiş güncelleme sistemi ile cihazınızdaki tüm alt komponentlerin bir bütün olarak veya ayrı ayrı güncellenebilmesi olanağı
- \* Bölümlendirilmiş yazılım deposu(software repository) seçenekleri ile yama yönetimi kalitenizi arttırın
- \* Güncellemelerin ve yamaların dağıtılması için yetkilendirme ve erişim kontrol sistemi



# WebYaST ile Yönetim

- SUSE Stüdyo ile hazırladığınız cihazınız için konfigürasyon, performans ve diğer tüm yönetimsel ihtiyaçlarınızı standard web tarayıcısı üzerinden sağlayan bir yönetim arayüzüdür
- Cihazların Ana Konfigürasyonları  
(Bazı Önemli Modüller: storage, bootloader, timezone, software appliance management updates, user management, hardware customization)
- Kurulu Cihazların Yönetimi  
(Bazı Önemli Modüller: Status, soft-shutdown, reboot, monitoring, license/EULA and registration, service start/stop/status)



# KIWI Sistemi ile İşletim Sistemi Üretimi

- Bir tanım dosyası kullanarak komut satırından gerekiğinde betik dili ile de desteklenerek imaj dosyası hazırlama aracıdır
- SUSE® Stüdyo'ya entegre edilmiş ana imaj üretim mekanizmasıdır
- İşletim sistemlerinin yeni sürümleri çıktığında mevcut tanım dosyası kullanılarak hızlı ve kolay bir şekilde önceden hazırlanmış olan cihazın yeni sürümünün hazırlanmasını sağlar
- KIWI bir özgür yazılım projesidir



# SUSE Stüdyo - Demo

# SUSE Stüdyo - Kurulum

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## Your appliances

openSUSE 11.3

**WebYaST Demo**

1 build, 274 MB – 32-bit x86 – edited 2 months ago

openSUSE 11.2

**Cornelius' LAMP Server**

32-bit x86 – edited 13 days ago

[Clone](#) [X](#)

openSUSE 11.1

**Cornelius' JeOS**

32-bit x86 – edited 2 years ago

**KDE 4.2**

1 build, 379 MB – 32-bit x86 – edited 4 months ago

openSUSE 11.0

**Mediawiki Demo**

2 builds, 926 MB – 32-bit x86 – edited one year ago

Cornelius Schumacher  
[Change account settings...](#)

[Manage your Amazon EC2 appliances...](#)[See what others have made in the Gallery!](#)

It's easy to download appliances others have shared in Gallery.  
You can even clone from shared appliances!

[SUSE Studio blog](#)[SUSE Linux Enterprise 10 SP4 support](#)

Yesterday, Novell announced the release of the SUSE Linux Enterprise 10 SP4, ...

The forecast is cloudy, show it on your desktop.

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## Choose a base template

### openSUSE 11.4

**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

**Import**

Use Kiwi or AutoYaST configuration file

### SUSE Linux Enterprise 11 SP1

**Just enough OS (JeOS)**

Minimal SLES 11 SP1

**Server**

SLES 11 SP1

**Minimal X**

Graphical system + IceWM

**GNOME desktop**

SLED 11 SP1, with GNOME

**KDE 4 desktop**

SLED 11 SP1, with KDE 4

**SLES for VMware**

SLES 11 SP1, VMware branded

**Import**

Use Kiwi or AutoYaST configuration file

### SUSE Linux Enterprise 11

**Just enough OS (JeOS)**

Minimal SLES

**Server**

SLES 11

**GNOME desktop**

SLED 11, with GNOME

**KDE 4 desktop**

SLED 11, with KDE 4

**Import**

Use Kiwi or AutoYaST configuration file

## SUSE Linux Enterprise 11



**Just enough OS (JeOS)**  
Minimal SLES



**Server**  
SLES 11



**GNOME desktop**  
SLED 11, with GNOME



**KDE 4 desktop**  
SLED 11, with KDE 4



**Import**  
Use Kiwi or AutoYaST configuration file

## SUSE Linux Enterprise 10 SP4



**Server**  
SLES 10 SP4



**GNOME desktop**  
SLED 10 SP4, with GNOME



**KDE 3 desktop**  
SLED 10 SP4, with KDE



**Import**

Use Kiwi or AutoYaST configuration file

[Additional templates...](#)

## Select your architecture

32-bit

64-bit

## Name your appliance

Cornelius' SLES 11 SP1, JeOS

This can be changed later

[Create appliance](#)

[Forum](#)

[Chat \(IRC\)](#)

[Blog](#)

[Facebook](#)

[Twitter](#)

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Web Server

[Disk Image](#)Based on: SLES 11 SP1  
Platform: 32-bit x86Used space: **390 MB**  
Download size: **140 MB**0 patterns selected  
49 packages selected  
172 total packages Take notes[Start](#)[Software](#)[Configuration](#)[Files](#)[Build](#)[Share](#)[Report bug](#)[Gallery](#)[Home](#)[Cornelius Schumacher](#)[Help](#)[Sign out](#)

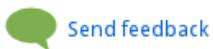
## Welcome to SUSE Studio!

Configure your appliance using the tabs above.

When you're finally done making everything the way you want, visit the [Build tab](#) to generate your appliance.

But first, give your appliance a name! It will be used in the boot screen, and in several other places.

Appliance name: [Switch to the Software tab to continue »](#)

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Web Server

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## Software sources

[SLES 11 SP1 i386](#), [SLES 11 SP1 Updates i386](#), [SLE 11 SP1 SDK i386](#), [SLE 11 SP1 SDK Updates i386](#)[+ Add repositories...](#) [Upload RPMs...](#)

## Selected software

Packages: [aaa\\_base](#), [bash](#), [branding-SLES](#), [coreutils](#), [cracklib-dict-full](#), [device-mapper](#), [dhpcd](#), [e2fsprogs](#), [elfutils](#), [filesystem](#), [glib2-branding-SLES](#), [glibc](#), [ifplugd](#), [initviocons](#), [insserv](#), [iputils](#), [irqbalance](#), [kbd](#), [kernel-default](#), [klogd](#), [login](#), [mdadm](#), [mkinitrd](#), [module-init-tools](#), [Source: SLES 11 SP1 i386 — click for more details](#), [nfs-client](#), [openssh](#), [openssl-certs](#), [pam](#), [pam-modules](#), [procps](#), [pwdutils](#), [release-notes-sles](#), [rpcbind](#), [rpm](#), [sles-release](#), [sles-release-DVD](#), [suse-build-key](#), [suseRegister](#) ✘ [suse-sam](#), [sysconfig](#), [syslog-ng](#), [sysvinit](#), [tar](#), [timezone](#), [vim](#), [vim-base](#), [w3m](#), [zypper](#)

[Quick add...](#)

## Search for software

 Search packages & patternsShow: [All repositories](#)

### Your appliance

[To be installed \(172\)](#)[Selected \(49\)](#)[Banned \(0\)](#)[Recommended \(27\)](#)[Take notes](#)[All available software](#)



## Web Server



## Disk Image

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0 patterns selected  
50 packages selected  
177 total packages

## Software changes

Added

Undo

Added 5 package, totaling 3.4 MB  
[View details...](#)



## Search for software



apache



Show: All repositories

[Back to all groups](#)

Search: apache (34)

[Add all](#)

Action	Name	Version	Size	Repository	Popularity
- remove	✓ apache2	2.2.10-2.24.5	2.1 MB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_php5	5.2.14-0.7.22.1	2.6 MB	SLE 11 SP1 SDK Updates i386	
+ add	apache2-mod_python	3.3.1-147.19	2.9 MB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_perl	2.0.4-40.19	6.9 MB	SLE 11 SP1 SDK i386	
+ add	apache2-prefork	2.2.10-2.24.5	592.1 KB	SLE 11 SP1 SDK i386	
+ add	apache2-example-pages	2.2.10-2.24.5	10 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_mono	2.0-1.26	50.5 KB	SLE 11 SP1 SDK i386	
+ add	apache2-worker	2.2.10-2.24.5	608.2 KB	SLE 11 SP1 SDK i386	
+ add	apache2-utils	2.2.10-2.24.5	175.9 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_security2	2.5.6-2.10.1	1.4 MB	SLE 11 SP1 SDK i386	
+ add	apache2-doc	2.2.10-2.24.5	10 MB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_perl-devel	2.0.4-40.19	146.5 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_fcgid	2.2.31.17	149.9 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_auth_ntlm_winbind	0.0.0.lorikeet_svn_682-1.18	21 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_macro	1.1.8-193.18	30.9 KB	SLE 11 SP1 SDK i386	
+ add	apache2-devel	2.2.10-2.24.5	623.1 KB	SLE 11 SP1 SDK i386	
+ add	apache2-mod_tidy	0.5.5-32.18	42.5 KB	SLE 11 SP1 SDK i386	
+ add	perl-Apache2-AuthCookieDBI	2.03-2.8	74.5 KB	SLE 11 SP1 SDK i386	
+ add	ant-apache-log4j	1.7.0-200.22	2.8 KB	SLE 11 SP1 SDK i386	
+ add	ant-apache-regexp	1.7.0-200.22	3.7 KB	SLE 11 SP1 SDK i386	
+ add	ant-apache-resolver	1.7.0-200.22	3.8 KB	SLE 11 SP1 SDK i386	
+ add	ant-apache-oro	1.7.0-200.22	56.9 KB	SLE 11 SP1 SDK i386	
+ add					

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Web Server

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**Added** [Undo](#)Added 5 package, totaling 3.4 MB  
[View details...](#)[General](#)[Personalize](#)[Startup](#)[Server](#)[Desktop](#)[Appliance](#)[Scripts](#)

## Default locale

Language: Keyboard Layout: 

## Default time zone

Region: Time Zone: 

## Network

- Do not configure network
- Configure network during first boot
- Use NetworkManager to configure the network at run-time
- Discover network settings automatically (DHCP)
- Manually configure network

**Note:** Your appliance will always run DHCP in Testdrive.

## Firewall

 Enable firewall

## Users and groups

Login	UID (optional)	Password	Group	Home directory	Shell
root	0	<input type="text" value="linux"/>	root	/root	/bin/bash

[+ Add new user...](#)



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General



Personalize



Startup



Server



Desktop



Appliance



Scripts

## Web Server



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## Software changes

## Added

Undo

Added 5 package, totaling 3.4 MB  
[View details...](#)

 Take notes

## Appliance logo



Upload new logo...

## Appliance background



Upload new background...

## Preview



Boot selection (grub)

Boot



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 [Take notes](#)

## Default runlevel

Start in runlevel: **3: Normal console** ▾

Single user runlevel has been disabled due to single account appliance.

## End user license agreement (EULA)

When your appliance boots for the first time, the user must agree to any and all EULAs listed below.

 [Add a new EULA](#)

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#### Messages

**Error:** PostgreSQL database configuration has been enabled, but PostgreSQL is not installed.

[Add postgresql-server](#)

#### Software changes

**Added**

[Undo](#)

Added 5 package, totaling 3.4 MB  
[View details...](#)

[Take notes](#)

## Database configuration

Set up PostgreSQL

### Step 1: Upload PostgreSQL database dump file (.bz2 only)

First, generate a dump of the database schema and data from your desired databases/tables. One way is to use the 'pg\_dump' tool which is included with PostgreSQL. For example, to generate a dump of the database 'mydb' (including both schema and data), use the following command:

```
pg_dump -C mydb > mydb.sql
```

This generates the database dump into the 'mydb.sql' file. Because this file can be rather large, please bzip it first using the following command:

```
bzip2 mydb.sql
```

Then upload the resulting 'mydb.sql.bz2' using the button below.

[Upload PostgreSQL dump...](#)

### Step 2: Configure PostgreSQL users and permissions

Add PostgreSQL databases users and specify the databases that they have access to here. Separate the list of databases by commas (i.e. mydb1, mydb2).

[Add PostgreSQL User](#)

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## Automatic desktop user log in

Automatically log in user **tux** ▾ (root is not allowed)

## Autostart desktop programs

[Command](#)[Start for user](#)[Comment \(optional\)](#)[+ Add new autostart program...](#)

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Web Server



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## Disk and memory

### OVF, VMware, and Xen

Memory:  MB

### EC2, OVF, VMware, and Xen

Disk size:  GB**Note:** The EC2 disk size is automatically capped at 10GB for it to work with Amazon's uploading tool.

### Disk image

**Note:** When first launched, a disk image will expand its filesystem to fill available space.Swap partition:  MB

### All formats

 Enable [extended memory \(PAE\)](#), to access more than 4GB

## Logical Volume Manager

**Note:** Logical Volume Manager (LVM) applies to the *disk image* and *VMWare* formats only. Configure LVM [Take notes](#)



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## Custom scripts

Run commands specific to your appliance, at the end of build, or at boot time.

Run script at the end of the build

```
#!/bin/bash -e
#
# This script is executed at the end of appliance creation. Here you can do
# one-time actions to modify your appliance before it is ever used, like
# removing files and directories to make it smaller, creating symlinks,
# generating indexes, etc.
#
# The 'kiwi_type' variable will contain the format of the appliance (oem =
# disk image, vmx = VMware, iso = CD/DVD, xen = Xen).
#
# read in some variables
. /studio/profile

# read in KIWI utility functions
. /.kconfig

#####
# Prune extraneous files
#####
```

Run script whenever the appliance boots

Run AutoYaST profile on appliance's first boot

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## Overlay files

Files added here will be copied into the appliance after packages are installed. Adding files is optional.

- **Single files** will be copied to the specified directory.
- **Archives** (.tar, .tar.gz, .tar.bz2, .tgz, or .zip) will be extracted into the directory specified. Permissions and hierarchy will be preserved. Using archives is a great way to add many files at one time.

Name	Directory	Extract	Size	Owner/Group	Permissions
------	-----------	---------	------	-------------	-------------

[Select all / Select none](#)[Disable](#) [Enable](#) [Move / Rename](#) [Edit details](#) [Remove](#)[Upload file...](#)[Add from the Web \(URL\)...](#)

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## Web Server



### VMware Image

Based on: SLES 11 SP1  
Platform: 32-bit x86

Used space: **390 MB**  
Virtual disk: **16 GB**  
Download size: **140 MB**

**0** patterns selected  
**50** packages selected  
**177** total packages

### Software changes

**Added**[Undo](#)

Added 5 package, totaling 3.4 MB  
[View details...](#)

 [Take notes](#)**Version 0.0.2**

Default format: [VMware / VirtualBox / KVM \(.vmdk\)](#)

 [Build](#)

- Additional formats:
- Amazon EC2 image
  - USB stick / hard disk image
  - Live CD/DVD (.iso)
  - OVF virtual machine (.ovf)
  - Xen guest
  - Preload ISO (.iso)

[Read more about formats...](#)[Configuration...](#)**Version 0.0.1**

Setting up build environment

0:11 [x](#)[Configuration...](#) [Clone](#)

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.

[View MD5 checksums](#), for verification that your appliance's download was successful.

[Export your appliance's Kiwi configuration](#), for building your appliance locally. (For advanced users only)

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## Web Server



### VMware Image

Based on: SLES 11 SP1  
Platform: 32-bit x86

Used space: **390 MB**  
Virtual disk: **16 GB**  
Download size: **140 MB**

0 patterns selected  
50 packages selected  
177 total packages

**Version 0.0.2**Default format: **VMware / VirtualBox / KVM (.vmdk)** **Build**

- Additional formats:
- Amazon EC2 image
  - USB stick / hard disk image
  - Live CD/DVD (.iso)
  - OVF virtual machine (.ovf)
  - Xen guest
  - Preload ISO (.iso)

[Read more about formats...](#)[Changelog...](#) [Configuration...](#)**Version 0.0.2** **VMware Image** 121 MB **Testdrive** **Download** **View files** [View supportability report...](#) [Changelog...](#) [Configuration...](#) **Clone****Version 0.0.1** **VMware Image** 121 MB **Testdrive** **Download** **View files** [View supportability report...](#) [Configuration...](#) **Clone** [Take notes](#)

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.

# SUSE Stüdyo – Test Sürüşü



Test Drive 59: 53

Modified Files

Networking: off

VMware Image



Ctrl-Alt-F1

Ctrl-Alt-F2

Ctrl-Alt-F3

Ctrl-Alt-F7

Alt-F1

Alt-F2

Ctrl-Alt-Del

Ctrl-Alt-Back

Keyboard layout:

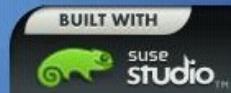
German ▾

Web Server [ VMX ]



Failsafe -- Web Server [ VMX ]

Boot Options |

**F1 Help F2 Language F4 Keyboard**  
English (US) English-US

Ctrl-Alt-F1

Ctrl-Alt-F2

Ctrl-Alt-F3

Ctrl-Alt-F7

Alt-F1

Alt-F2

Ctrl-Alt-Del

Ctrl-Alt-Back

Keyboard layout:

English (US) ▾



```
| . . |  
+-----+  
Generating /etc/ssh/ssh_host_rsa_key.  
Generating public/private rsa key pair.  
Your identification has been saved in /etc/ssh/ssh_host_rsa_key.  
Your public key has been saved in /etc/ssh/ssh_host_rsa_key.pub.  
The key fingerprint is:  
bc:98:e9:38:54:d8:24:b2:d3:a8:e6:36:46:f3:ab:66 root@linux-ex1j  
The key's randomart image is:  
+---[ RSA 1024]---+  
| . . . |  
| = = |  
| + o o . |  
| . . . S |  
| . + . + . |  
| + o . + . |  
| E ..o |  
|=..o.o.. |  
+-----+  
Starting SSH daemon done  
Setting up (remotefs) network interfaces: done  
Setting up service (remotefs) network . . . . . reached  
Master Resource Control: runlevel 3 has been nfs irq_balancer  
Skipped services in runlevel 3:
```

Welcome to SUSE Linux Enterprise Server 11 SP1 (i586) – Kernel 2.6.32.36-0.5-default (tty1).

```
linux-ex1j login: root  
Password:  
linux-ex1j:~ # _
```

Web Server - SUSE S... Web Server (0.0.1) - ... Access forbidden! +

[node48.susestudio.com/testdrive/start/JYY1Zt6ak4wWEaP0Y5fs?lang=en](#)

**suse studio™** Test Drive 54: 21 Modified Files Networking: on  VMware 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: 38, ordered by: time

Type	Path	Last changed	Size	Actions
<input type="checkbox"/>	add /srv/www/htdocs/.index.html.swp	33 seconds ago	12 KB	<a href="#">Download</a>
<input checked="" type="checkbox"/>	add /srv/www/htdocs/index.html	43 seconds ago	41 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /root/.viminfo	43 seconds ago	693 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	modify /etc/apache2/sysconfig.d/global.conf	3 minutes ago	255 Bytes	<a href="#">View</a> , <a href="#">Diff</a> , <a href="#">Download</a>
<input type="checkbox"/>	modify /etc/apache2/sysconfig.d/loadmodule.conf	3 minutes ago	1.9 KB	<a href="#">View</a> , <a href="#">Diff</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/apache2/sysconfig.d/include.conf	3 minutes ago	150 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_dsa_key.pub	4 minutes ago	605 Bytes	<a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_rsa_key.pub	4 minutes ago	225 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_dsa_key	4 minutes ago	668 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_rsa_key	4 minutes ago	887 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/defkeymap.name	4 minutes ago	45 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_key.pub	4 minutes ago	334 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/defkeymap.map	4 minutes ago	28.4 KB	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/ssh/ssh_host_key	4 minutes ago	530 Bytes	<a href="#">Download</a>
<input type="checkbox"/>	add /etc/resolv.conf	4 minutes ago	815 Bytes	<a href="#">View</a> , <a href="#">Download</a>
<input type="checkbox"/>	modify /etc/sysconfig/clock	4 minutes ago	979 Bytes	<a href="#">View</a> , <a href="#">Diff</a> , <a href="#">Download</a>
<input type="checkbox"/>	modify /etc/sysconfig/network/ifcfg-eth0	4 minutes ago	27 KB	<a href="#">View</a> , <a href="#">Diff</a> , <a href="#">Download</a>
<input type="checkbox"/>	add /etc/X11/xorg.conf	4 minutes ago	2.0 KB	<a href="#">View</a> , <a href="#">Download</a>

Access forbidden!					
<input type="checkbox"/>	add	/etc/defkeymap.map	4 minutes ago	28.4 KB	<a href="#">View, Download</a>
<input type="checkbox"/>	add	/etc/ssh/ssh_host_key	4 minutes ago	530 Bytes	<a href="#">Download</a>
<input type="checkbox"/>	add	/etc/resolv.conf	4 minutes ago	815 Bytes	<a href="#">View, Download</a>
<input type="checkbox"/>	modify	/etc/sysconfig/clock	4 minutes ago	979 Bytes	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	modify	/etc/sysconfig/network/ifcfg-eth0	4 minutes ago	27 KB	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	add	/etc/X11/xorg.conf	4 minutes ago	3.9 KB	<a href="#">View, Download</a>
<input type="checkbox"/>	modify	/etc/init.d/kbd	4 minutes ago	11.9 KB	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	add	/etc/yp.conf	4 minutes ago	779 Bytes	<a href="#">View, Download</a>
<input type="checkbox"/>	modify	/etc/mtab	4 minutes ago	236 Bytes	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	modify	/boot/grub/stage2	5 minutes ago	99.6 KB	<a href="#">Download</a>
<input type="checkbox"/>	add	/boot/initrd-2.6.32.36-0.5-default	5 minutes ago	3.2 MB	<a href="#">Download</a>
<input type="checkbox"/>	add	/etc/ImagePackages	5 minutes ago	13 KB	<a href="#">View, Download</a>
<input type="checkbox"/>	add	/etc/udev/rules.d/70-persistent-cd.rules	5 minutes ago	388 Bytes	<a href="#">View, Download</a>
<input type="checkbox"/>	add	/etc/grub.conf	5 minutes ago	57 Bytes	<a href="#">View, Download</a>
<input type="checkbox"/>	modify	/etc/sysconfig/kernel	5 minutes ago	2.5 KB	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	add	/boot/grub/device.map	5 minutes ago	15 Bytes	<a href="#">View, Download</a>
<input type="checkbox"/>	modify	/etc/sysconfig/bootloader	5 minutes ago	349 Bytes	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	modify	/etc/fstab	5 minutes ago	338 Bytes	<a href="#">View, Diff, Download</a>
<input checked="" type="checkbox"/>	modify	/boot/grub/menu.lst	5 minutes ago	653 Bytes	<a href="#">View, Diff, Download</a>
<input type="checkbox"/>	delete	/boot/initrd.vmx			
<input type="checkbox"/>	delete	/boot/grub/mbrid			
<input type="checkbox"/>	delete	/boot/linux.vmx			
<input type="checkbox"/>	modify	/boot/message	11 minutes ago	395 KB	<a href="#">Download</a>
<input type="checkbox"/>	delete	./profile			
<input type="checkbox"/>	delete	/.kconfig			
<input type="checkbox"/>	delete	/etc/init.d/suse_studio_firstboot			
<a href="#">Select all</a> / <a href="#">Select none</a> on this page					
You may also use shift-click to select multiple items.					
<input type="checkbox"/>	Bundle selected files as archive with name		.tar.bz2		
<a href="#">Add selected files to appliance</a>					

Web Server - SUSE S... x Web Server (0.0.1) - ... x New Tab x

node48.susestudio.com/testdrive/start/JYY1Zt6aK4wWEaP0Y5fs?lang=en

suse studio™ Test Drive **58: 01** Modified Files Networking: off VMware Image

## Networking in testdrive

If your appliance is configured to use DHCP, it will be connected to the network in a limited way so that you can SSH in and perform some basic tests.

You will **not** be able to make outgoing connections. Your IP address, 195.135.221.2, is the only host that can connect to your testdrive. Ports 22, 80, 443, and 54984 (WebYaST) are mapped to ports 16022, 16080, 16443, and 16984 on host node48.susestudio.com.

[Enable networking](#)

### SSH into your testdrive

To SSH into your testdrive, you can use this command:

```
ssh -o "UserKnownHostsFile /dev/null" -p 16022 root@node48.susestudio.com
```

You can also SCP files into and out of your testdrive (take note: SCP uses the -P option to set the port, with a capital P, whereas SSH uses a lowercase p).

```
scp -o "UserKnownHostsFile /dev/null" -P 16022 filename  
root@node48.susestudio.com:
```

### Try out WebYaST

If you have WebYaST installed and enabled, you can access it on port 54984 of your testdrive using this link:

<https://node48.susestudio.com:16984/>

### Try out your web app

To access a web server on port 80 of your testdrive, use this link:

<http://node48.susestudio.com:16080/>

To access a secure web server on port 443 of your testdrive, use this link:

<https://node48.susestudio.com:16443/>



done  
done  
reached

Welcome to SUSE Linux Enterprise Server 11 SP1 (i586) - Kernel 2.6.32.36-0.5-default (tty1).

linux-1rdh login:

# SUSE Stüdyo – Cihaz Paylaşımı

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Demo Web Server

**VMware Image**

Based on: SLES 11 SP1  
Platform: 32-bit x86

Used space: **390 MB**  
Virtual disk: **16 GB**  
Download size: **140 MB**

**0** patterns selected  
**50** packages selected  
**177** total packages

## Appliance summary

Description: This is a demo web server serving static content.

Website:

Basic formatting: `*bold*`, `_italic_`,  
`+underline+`, `@code@`. [More formatting options...](#)

Tags:

**There are unsaved changes.**

[Save summary](#)

[Certify this appliance](#)

## Share with everyone

Available: Version 0.0.2 ▾ [Add](#)

[susestudio.com/appliance/edit/382487#/share](#)[Send feedback](#)

## Demo Web Server

 [VMware Image](#)Based on: SLES 11 SP1  
Platform: 32-bit x86Used space: **390 MB**  
Virtual disk: **16 GB**  
Download size: **140 MB**0 patterns selected  
50 packages selected  
177 total packages

## Appliance summary

Description: This is a demo web server serving static content.

Website: Basic formatting: \*bold\*, \_italic\_, +underline+, @code@. [More formatting options...](#)Tags:  [Certify this appliance](#)[Save summary](#)

## Share with everyone

Available: Version 0.0.1 [Add](#)Version 0.0.2 

Release notes: First version.

Basic formatting: \*bold\*, \_italic\_, +underline+, @code@. [More formatting options...](#)[Cancel](#)

This version is not yet published

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# SUSE Stüdyo – Galeri

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### Illumination Software Creation Station

"by Bryan Lunduke"

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 **Demo Web Server**  
by Cornelius Schumacher  
7 minutes ago

 **SevestraOS**  
SevestraSoft certified  
2 hours ago

 **Snowlight**  
kitty03105.com certified  
5 hours ago

 **The NOC Project**  
by Mike new  
6 hours ago

 **BLOS-beta**  
by bbowerman  
8 hours ago

 **suse Kactus**  
Kactus certified  
10 hours ago

 **acrossoftcenter(R) OS beta ...**  
by Linux787  
10 hours ago

 **lorenzosuitubi's JeOS**  
by lorenzosuitubi  
12 hours ago

 **Xeon Server**  
by Adil  
17 hours ago

 **Xeon x86**  
Xeon certified  
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 **Caranille 2011**  
by Caranille  
21 hours ago

 **aOSx86**  
aOS certified  
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 **KDE4 Horde4 Demo setup**  
by Ralf Lang (B1 Systems GmbH)  
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## Demo Web Server

Published by [Cornelius Schumacher](#)Based on **SLES 11 SP1** 32-bit x86

This is a demo web server serving static content.

0 comments

**Version 0.0.2**

Updated 6 minutes ago

Previously known as Web Server

[Edit appliance...](#) [Certify appliance...](#) [Clone appliance...](#)

## Download



## Release notes

First version.

## Testdrive



## Technical Details

### Appliance configuration

#### Accounts

User	Password
root	linux
tux	linux

### Security summary

- Only official software sources are included.
- No custom software packages were uploaded.
- Overlay files were uploaded, but none are executable.
- No custom scripts were enabled.

[View all appliances published by Cornelius Schumacher](#)

Keyboard: english-us  
Time zone: UTC  
Language: en\_US.UTF-8  
Network: dhcp  
Firewall: disabled

Some packages may not be supported by Novell.  
Our support engineers may ask you to direct  
support requests to the vendor of those packages.  
[View supportability report...](#)

## Software

0 patterns, 177 packages  
[View package list...](#)

## Comments

Add a comment

Basic formatting:  
\*bold\*, \_italic\_,  
+underline+, @code@.  
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Post comment

### Everyone's comments

No comments yet

# SUSE Stüdyo – Amazon EC2 Bağlantısı

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## Demo Web Server



### Amazon EC2

Based on: SLES 11 SP1  
Platform: 32-bit x86

Used space: **350 MB**  
Download size: **130 MB**

**0** patterns selected  
**50** packages selected  
**184** total packages

### Version 0.0.4

Default format: **Amazon EC2 image**

**Build**

- Additional formats:
- USB stick / hard disk image
  - Live CD/DVD (.iso)
  - VMware / VirtualBox / KVM (.vmdk)
  - OVF virtual machine (.ovf)
  - Xen guest
  - Preload ISO (.iso)

[Read more about formats...](#)

[Changelog...](#)   [Configuration...](#)

### Version 0.0.3

**Amazon EC2**   88 MB

[Upload to EC2](#)   [Download](#)   [View files](#)

[View supportability report...](#)   [Changelog...](#)   [Configuration...](#)   [Clone](#)

### Version 0.0.2

**VMware Image**   121 MB

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[View supportability report...](#)   [Changelog...](#)   [Configuration...](#)   [Clone](#)   [Locked \(Published\)](#)

### Version 0.0.1

**VMware Image**   121 MB

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[Take notes](#)

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## Amazon Web Services (AWS) credentials

Your credentials allow you to get access to AWS and upload your appliance to EC2.

You can view them at any time from your [AWS account](#).



Access Key ID:

Secret Access Key:

Default region:

If you are no longer using this service, you can [delete your credentials](#) from our database at any time.

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## Your Amazon EC2 appliances

To create new [Amazon EC2](#) appliances, choose openSUSE 11.4, SUSE Linux Enterprise Server (SLES) 11 SP1 or SLES 10 SP3 on the [new appliance page](#). Select "Disk image" as your default format (for testing), and build "Amazon EC2" as a secondary type.

Your appliance will be uploaded to Amazon Elastic Block Storage (EBS). Afterwards you can create and control EC2 instances on Amazon servers from this page once you have entered your [Amazon credentials](#).

Please note that this service provided by Amazon is not for free. Uploading and launching your appliance will incur costs. Please consult Amazon for [pricing](#) details.

Amazon also offers a detailed description of the available [instance types](#).

[+ Add instance...](#)[Upload & Launch](#)[Upload only](#)[Forum](#)[Chat \(IRC\)](#)[Blog](#)[Facebook](#)[Twitter](#)[Screencast](#)[Logos & badges](#)[Jobs](#)

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## Your Amazon EC2 appliances

To create new [Amazon EC2](#) appliances, choose [openSUSE 11.4](#), SUSE Linux Enterprise Server (SLES) 11 SP1 or SLES 10 SP3 on the [new appliance page](#). Select "Disk image" as your default format (for testing), and build "Amazon EC2" as a secondary type.

Your appliance will be uploaded to Amazon Elastic Block Storage (EBS). Afterwards you can create and control EC2 instances on Amazon servers from this page once you have entered your [Amazon credentials](#).

Please note that this service provided by Amazon is not for free. Uploading and launching your appliance will incur costs. Please consult Amazon for [pricing](#) details.

Amazon also offers a detailed description of the available [instance types](#).

[+ Add instance...](#)

### Demo Web Server

(32-bit x86)

[edit appliance](#)

0.0.3	EU West (Ireland)	Show connection information	▼
t1.micro	ami-47330533	i-f15fd387	<a href="http://ec2-79-125-73-116.eu-west-1.compute.amazonaws.com">ec2-79-125-73-116.eu-west-1.compute.amazonaws.com</a>

Running

[Terminate](#)

x

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# SUSE Stüdyo – Web Yast ile Yönetim

# WebYast

## Web based System Management Interface

The screenshot shows the WebYast interface with the following components:

- Header:** Language: English (US), Connected host: localhost, User: root, Control panel, Logout.
- Status:** Your system is up to date. Registration is missing.
- System actions:** Reboot, Shutdown.
- Configuration:** Updates, Status, System Services, Users, Software Repositories, Registration, Network, Language, Groups, Mail Settings, Time, Firewall, Administrator Settings.
- Footer:** © 2009,2010 Novell, Inc.

# Soru ve Cevap

Bizimle Çalışmak İster misiniz?

[pk@yore.com.tr](mailto:pk@yore.com.tr)

Katıldığınız için teşekkür ederiz

*Yöre Elektronik Yayımcılık A.Ş.*

