

# Enhancing SUSE Linux Enterprise - SUSE® Package Hub

uncovering hidden gems

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# Topics

- openSUSE Build Service
- openSUSE Packaging Community
- Hidden Gems
- Users of SUSE Linux Enterprise
- Mining for Gems
- SUSE Package Hub

# The story begins here...

openSUSE Build Service

# openSUSE Build Service

Community of Packagers

# Packaging for SUSE Linux Enterprise

SLE\_12



x86\_64

succeeded: 241  
unresolvable: 2  
broken: 1  
disabled: 5

# Built for SUSE Linux Enterprise

~25,000 Source Packages

<sup>1</sup> *statistic from May 2014 for SLES 11 builds **excluding** home projects*

# Hidden Gems

Could they be valuable to SUSE Enterprise customers?

# Extra Batteries not included

	SLE 12	openSUSE 13.2	Tumbleweed
Source Packages	3000	7500	8000
Maintenance	SUSE	SUSE+Community	no
Support	SUSE	no	no
Life Time	10 years	2 years	none



# Extra Open Source Packages

What are the options?

# Option 1

Feature Request

# Business Case

↗ Volume vs. ↘ Margin

# Option 2

Build it yourself

# Do you feel lucky?

- Find community portal

# Do you feel lucky?

- Find community portal
  - Download Source

# Do you feel lucky?

- Find community portal
  - Download Source
- Read Installation Instructions

# Do you feel lucky?

- Find community portal
  - Download Source
- Read Installation Instructions
  - Build



# Your Lucky Day!

- Find community portal
  - Download Source
- Read Installation Instructions
  - Build
  - **Install & Use**

# Not your lucky day!

- Find community portal
  - Download Source
- Read Installation Instructions
  - Build
  - ✘ Build Failures

# DIY

Isolation

# Not alone

Package Community

# Hidden Gems

Could they be valuable to SUSE Enterprise customers?

# Finding Hidden Gems


How can customers find them?

# Finding Hidden Gems

How can customers find *out about* them?

# Uncovering Hidden Gems

## Package Search



### phpMyAdmin

#### Administration of MySQL over the web

phpMyAdmin can manage a whole MySQL server (needs a super-user) as well as a single database. To accomplish the latter you'll need a properly set up MySQL user who can read/write only the desired database. It's up to you to look up the appropriate part in the MySQL manual.

Currently phpMyAdmin can:

- \* browse and drop databases, tables, views, fields and indexes
- \* create, copy, drop, rename and alter databases, tables, fields and indexes
- \* maintenance server, databases and tables, with proposals on server configuration
- \* execute, edit and bookmark any SQL-statement, even batch-queries
- \* load text files into tables
- \* create and read dumps of tables
- \* export data to various formats: CSV, XML, PDF, ISO/IEC 26300 -



# Uncovering Hidden Gems

- \* load text files into tables
- \* create and read dumps of tables
- \* export data to various formats: CSV, XML, PDF, ISO/IEC 26300 - OpenDocument Text and Spreadsheet, Word, Excel and LaTeX formats
- \* Import data and MySQL structures from Microsoft Excel and OpenDocument spreadsheets, as well as XML, CSV, and SQL files
- \* administer multiple servers
- \* manage MySQL users and privileges
- \* check referential integrity in MyISAM tables
- \* using Query-by-example (QBE), create complex queries automatically connecting required tables
- \* create PDF graphics of your Database layout
- \* search globally in a database or a subset of it
- \* transform stored data into any format using a set of predefined functions, like displaying BLOB-data as Image or download-link
- \* track changes on databases, tables and views
- \* support InnoDB tables and foreign keys (see FAQ 3.6)
- \* support mysqli, the improved MySQL extension (see FAQ 1.17)
- \* communicate in 57 different languages
- \* synchronize two databases residing on the same as well as remote servers (see FAQ 9.1)



[Show other versions](#)

# Uncovering Hidden Gems

like displaying BLOB-data as image or download-link

- \* track changes on databases, tables and views
- \* support InnoDB tables and foreign keys (see FAQ 3.6)
- \* support mysql, the Improved MySQL extension (see FAQ 1.17)
- \* communicate in 57 different languages
- \* synchronize two databases residing on the same as well as remote servers (see FAQ 9.1)



[openSUSE Tumbleweed](#) ▶

[openSUSE Leap 42.1](#) ▶

[openSUSE 13.2](#) ▶

official update

4.4.15



noarch Source

**1 Click Install**

Show unstable packages

[openSUSE 13.1](#) ▶

[SUSE SLE-12](#) ▼

Show unstable packages

[SUSE SLE-11 SP 4](#) ▶

[SUSE SLE-11 SP 3](#) ▶

Show more packages for unsupported distributions




# Perils of Uncovering Hidden Gems

The screenshot shows a software repository interface with a warning dialog box overlaid. The dialog box has an orange header with the word "Warning" and a "hide" button. The main text of the dialog reads: "Please be aware that the following packages are from unofficial repositories. That means they are not reviewed by openSUSE and may contain unstable or experimental software." Below this text is a checkbox labeled "Don't show this warning the next time" which is currently unchecked. A "Continue" button is located at the bottom right of the dialog. In the background, a list of software distributions is visible, including "openSUSE Tumb...", "openSUSE Leap", "openSUSE 13.2", "official upda...", "openSUSE 13.1", "SUSE SLE-12", "SUSE SLE-11 SP 4", and "SUSE SLE-11 SP 3". A "Show unstable packages" link is also present. On the right side, there is a "1 Click Install" button.

# Uncovering Hidden Gems

with metadata in 37 different languages

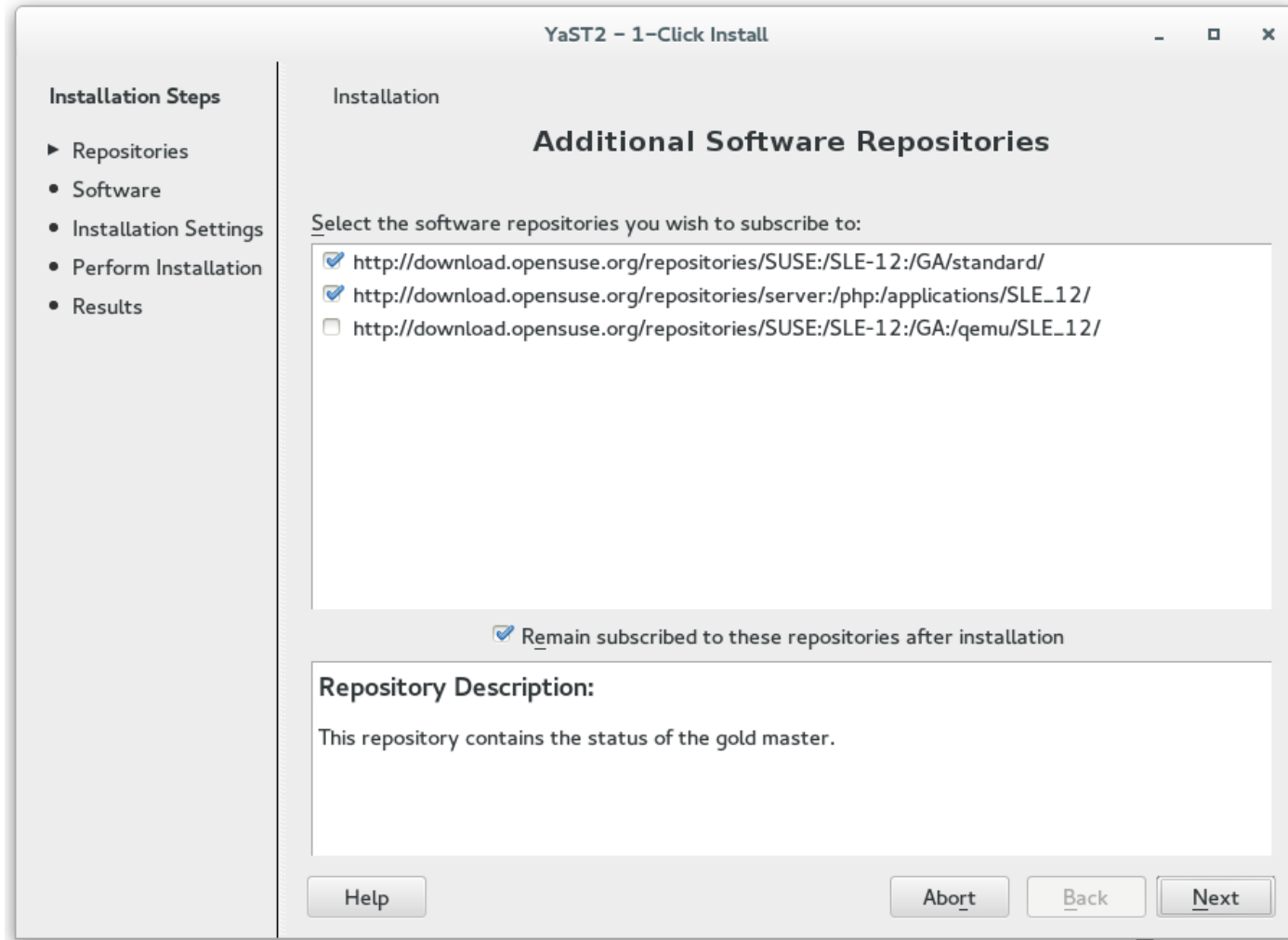
\* synchronize two databases residing on the same as well as remote servers  
(see FAQ 9.1)



**Direct Install**  
openSUSE 13.2, Version 4.4.15, 5.77 MB

<b>openSUSE Tumbleweed</b>						▶
<b>openSUSE Leap 42.1</b>						▶
<b>openSUSE 13.2</b>						▶
official update	4.4.15	↓	noarch	Source	<b>1 Click Install</b>	
Show unstable packages						
<b>openSUSE 13.1</b>						▶
<b>SUSE SLE-12</b>						▼
server:php:applicati...	4.4.15	↓	noarch	Source	<b>1 Click Install</b>	
spins:invis:common	4.4.13	↓	noarch	Source	<b>1 Click Install</b>	
spins:invis:rootpack	4.4.15	↓	noarch	Source	<b>1 Click Install</b>	
home:ingogoepert:SLES	4.4.15	↓	noarch	Source	<b>1 Click Install</b>	
<b>SUSE SLE-11 SP 4</b>						▶
<b>SUSE SLE-11 SP 3</b>						▶
Show more packages for unsupported distributions						⌵

# Wha?



# **This Sucks!**

There Must Be A Better Way!

# A Better Way

## SUSE Package Hub

- OBS Project to Coordinate and Consolidate Useful Packages for SLE customers.
- Policies and Checks to Protect Customer's Investment in SUSE Support Services.
- Community Maintained | Community Supported
- Easy Access For Customers

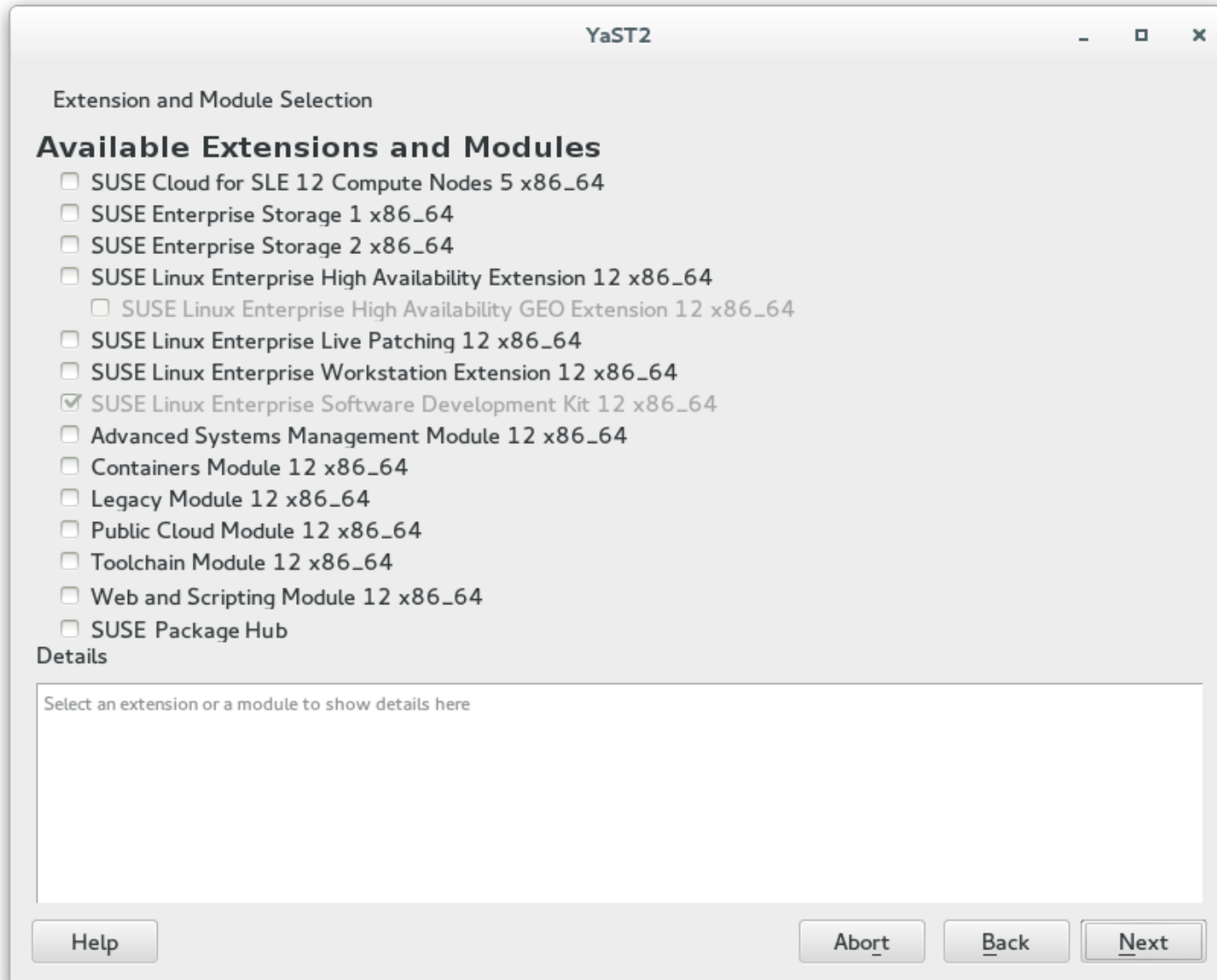
# A Better Way

## SUSE Package Hub

- OBS Project to Coordinate and Consolidate Useful Packages for SLE customers.
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- *Damn-Easy* Access For Customers



# SCC



# OBS Project

openSUSE:Backports:SLE-12

# Protect

## Packaging Policies

- Follow openSUSE Policies
- Packages must be derived from Factory
- No conflicts with SUSE Linux Enterprise packages
- Version updates up to maintainers
- Veto rights of involved teams
- Security issues

[https://en.opensuse.org/openSUSE:Backports\\_Packaging\\_Policy](https://en.opensuse.org/openSUSE:Backports_Packaging_Policy)

# Contribute!

## Packager's Workflow

- Add **openSUSE:Backports:SLE-12/standard/x86\_64**
- Submit to **openSUSE:Backports:SLE-12**
- Source Revisions must be...
  - ... checked into Factory
  - ... contained in an SR to Factory

[https://en.opensuse.org/openSUSE:Backports\\_Package\\_Submission\\_Process](https://en.opensuse.org/openSUSE:Backports_Package_Submission_Process)

# Please feed!

## Current Status

- chromium
- irssi
- mosh
- mumble
- ninja
- perl-switch
- protobuf
- scite
- sshfs
- tmux
- znc
- pwgen (coming soon!)*

# Benefits

What's in it for me?

# Perks

phpMyAdmin

# Perks

phpMyAdmin



pwgen



# Perks

phpMyAdmin



pwgen



SLE

# Perks

\_link

# Perks

What if pwgen was in  
openSUSE:Backports:SLE-12?

# Replace

SUSE:SLE-12:GA

**...with this**

openSUSE:Backports:SLE-12

**...clean house**

**\_link**

# Perks

Shared Resources

# Perks

Community vs DIY



# Change!

~~SUSE:SLE-12:GA~~

openSUSE:Backports:SLE-12

# Call to Action!

Submit to Factory!

Submit to Backports!

Questions?

Thank you.



# SUSE Package Hub

Please contribute! Submit your packages!

## **More info:**

<https://en.opensuse.org/Portal:Backports>

## **Questions:**

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