

Criando pacotes RPM para o Fedora

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Sobre esta apresentação

- **Orientada para o público intermediário**
- **Conhecimentos sobre compilação de programas GNU/Linux e gerenciamento de pacotes RPM**
- **Visão de como se tornar um colaborador no time de empacotamento do Fedora**

Sobre o Allisson

- **Fedora Package Maintainer/Ambassador desde 2007**
- **Atualmente mantenedor de 49 pacotes**
 - **<https://admin.fedoraproject.org/pkgdb/users/packages/allisson>**

Por onde começar

- **Leia a documentação**
 - <http://fedoraproject.org/wiki/PackageMaintainers/Join>
 - <http://fedoraproject.org/wiki/PackageMaintainers/CreatingPackageHowTo>
 - <http://fedoraproject.org/wiki/Docs/Drafts/BuildingPackagesGuide>

Crie e teste o seu pacote localmente

- **Instale os pacotes necessários**
 - `yum groupinstall "Fedora Packager"`
 - `yum groupinstall "Development Tools"`
- **rpmdev-setuptree**
 - `/home/user/rpmbuild/RPMS`
 - `/home/user/rpmbuild/SOURCES`
 - `/home/user/rpmbuild/SPECS`
 - `/home/user/rpmbuild/SRPMS`

Crie e teste o seu pacote localmente

- **rpmdev-newspec meupacote**
 - **Skeleton specfile (minimal) has been created to "meupacote.spec".**

Crie e teste o seu pacote localmente

```
1 Name:          meupacote
2 Version:
3 Release:       1%{?dist}
4 Summary:
5
6 Group:
7 License:
8 URL:
9 Source0:
10 BuildRoot:     %{_tmppath}/%{name}-%{version}-%{release}-root-%(%{__id_u} -n)
11
12 BuildRequires:
13 Requires:
14
15 %description
16
17
18 %prep
19 %setup -q
20
21
22 %build
23 %configure
24 make %{?_smp_mflags}
25
26
27 %install
28 rm -rf $RPM_BUILD_ROOT
29 make install DESTDIR=$RPM_BUILD_ROOT
30
31
32 %clean
33 rm -rf $RPM_BUILD_ROOT
34
35
36 %files
37 %defattr(-,root,root,-)
38 %doc
39
40
41
42 %changelog
```

Crie e teste o seu pacote localmente

- **rpmbuild -bs arquivo.spec --nodeps**
- **Use sempre que possível o mockbuild para construir o pacote**
 - http://fedoraproject.org/wiki/Using_Mock_to_test_package_builds
- **Teste com o rpmlint**
 - **pacote.src.rpm**
 - **pacote.rpm**

Crie e teste o seu pacote localmente

- `yum localinstall pacote.rpm --nogpgcheck`
- `yum remove pacote`

Submeta seu pacote para revisão

- **Antes de submeter, verifique se o pacote já consta no repositório**
 - <https://admin.fedoraproject.org/pkgdb>
- **Crie uma conta no bugzilla.redhat.com**
- **Envie o .spec e o .src.rpm para uma url acessível**
- **Crie o review-request para o seu pacote**
 - https://bugzilla.redhat.com/bugzilla/enter_bug.cgi?product=Fedora&format=extras-review

Submeta seu pacote para revisão

- **Corrija os possíveis erros no seu pacote**
- **Crie sua conta no FAS**
 - <https://admin.fedoraproject.org/accounts/>
 - **Grupo cla_done**
 - **Grupo packager**
 - **Grupo fedorabugs**

Processo de sponsor

- **Mesmo após aprovado o seu pacote, você precisa obter uma permissão para enviar e construir o pacote no repositório**
- **Não é um processo automático**
- **Você precisa convencer um membro com nível de sponsor que entendeu como funcionam as regras de empacotamento no Fedora**

Processo de sponsor

Your Roles

- ▼ **Fedora Ambassador Project** (user)
Status: Approved
Tools: → [View Group](#)
→ [Invite a New Member...](#)
- ▼ **Signed CLA Group** (user)
Status: Approved
Tools: → [View Group](#)
→ [Invite a New Member...](#)
- ▼ **Fedora CLA Group** (user)
Status: Approved
Tools: → [View Group](#)
→ [Invite a New Member...](#)
- ▼ **Fedora Bugs Group** (user)
Status: Approved
Tools: → [View Group](#)
→ [Invite a New Member...](#)
- ▼ **Fedora Packager CVS Commit Group** (user)
Status: Approved
Tools: → [View Group](#)

Adicionar o pacote no CVS

- **Esse processo é feito no review-request após o pacote ter sido aprovado**
 - <http://fedoraproject.org/wiki/PackageMaintainers/CVSAdminProcedure>

Adicionar o pacote no CVS

Comment #12 From Allisson Azevedo 2009-03-01 07:23:48 EDT

New Package CVS Request

=====

Package Name: couchdb

Short Description: A document database server, accessible via a RESTful JSON API

Owners: allisson

Branches: F-9 F-10 EL-5

Comment #13 From Kevin Fenzi 2009-03-02 19:16:20 EDT

cvs done.

Comment #14 From Allisson Azevedo 2009-03-03 06:01:50 EDT

Hi, i can't see EL-5 branch for CouchDB.

Comment #15 From Kevin Fenzi 2009-03-03 15:48:38 EDT

sorry about that. Try now?

Note

You need to [log in](#) before you can comment on or make changes to this bug.

First Last Prev Next No search results available

[Format For Printing](#) - [XML](#) - [Clone This Bug](#) - [Top of page](#)

Adicionar o pacote no CVS

[lpkgs1](#) / [rpms](#) / couchdb

Repository:



Index of /rpms/couchdb

Files shown: 1

Sticky Tag:

File ^	Rev.	Age	Author	Last log entry
Parent Directory				
EL-5/				
F-10/				
F-11/				
F-9/				
devel/				
Makefile	1.1	3 months	kevin	Setup of module couchdb

webmaster@fedoraproject.org

[ViewVC Help](#)

Powered by [ViewVC 1.0.8](#)

Adicionar o pacote no CVS

- Após a criação da entrada no CVS é necessário importar os arquivos
 - `fedora-cvs <packagename>`
 - `cd <packagename>`
 - `./common/cvs-import.sh -b F-9 PATH_TO_SRPM`

Adicionar o pacote no CVS

[lpkgs](#) / [rpms](#) / [couchdb](#) / devel

Repository:



Index of /rpms/couchdb/devel

Files shown: 7

Sticky Tag:

File ^	Rev.	Age	Author	Last log entry
Parent Directory				
.cvsignore	1.3	7 weeks	allisson	Update to 0.9.0
Makefile	1.1	3 months	kevin	Setup of module couchdb
couchdb-0.9.0-pid.patch	1.1	7 weeks	allisson	Update to 0.9.0
couchdb.init	1.3	6 weeks	allisson	- Fix permission for ini files. - Fix couchdb.init start process.
couchdb.spec	1.3	6 weeks	allisson	- Fix permission for ini files. - Fix couchdb.init start process.
import.log	1.3	6 weeks	allisson	- Fix permission for ini files. - Fix couchdb.init start process.
sources	1.3	7 weeks	allisson	Update to 0.9.0

webmaster@fedoraproject.org

[ViewVC Help](#)

Powered by [ViewVC 1.0.8](#)

Construção do pacote

- Após a importação para o cvs é hora de construir o pacote
 - `fedora-cvs <packagename>`
 - `cd <packagename>/F-9/`
 - `make build`
- O sistema responsável pela construção de pacotes é o Koji
 - <http://koji.fedoraproject.org/koji/>

Construção do pacote



Packages Search

- Summary
- Packages
- Builds
- Tasks
- Tags
- Build Targets
- Users
- Hosts
- Reports
- Search

Thu, 25 Jun 2009 02:48:32 UTC | [login](#)

Welcome to Koji Web

Recent Builds

Build 1 through 10 of 111500 >>>

Page: 1

NVR	Finished ▾	State
kernel-2.6.31-0.28.rc1.fc12		
kernel-2.6.29.5-198.fc11		
barry-0.15-0.6.20090623git.fc12	2009-06-25 00:51:05	
barry-0.15-0.6.20090623git.fc9	2009-06-25 00:32:05	
barry-0.15-0.6.20090623git.fc11	2009-06-25 00:30:34	
barry-0.15-0.6.20090623git.fc10	2009-06-25 00:30:31	
lirc-0.8.6-0.2.pre1.fc12	2009-06-24 23:45:09	
rt3-3.8.2-9.fc11	2009-06-24 22:11:25	
rt3-3.8.4-2.fc12	2009-06-24 22:09:55	
rt3-3.8.2-9.fc10	2009-06-24 22:09:49	

Recent Tasks

Tasks 1 through 10 of 456194 >>>

Page: 1

Construção do pacote



Packages Search

Summary Packages **Builds** Tasks Tags Build Targets Users Hosts Reports Search

Thu, 25 Jun 2009 02:50:30 UTC | [login](#)

Information for build lirc-0.8.6-0.2.pre1.fc12

ID 111681

Package Name [lirc](#)

Version 0.8.6

Release 0.2.pre1.fc12

Epoch

Summary The Linux Infrared Remote Control package

Description LIRC is a package that allows you to decode and send infra-red and other signals of many (but not all) commonly used remote controls. Included applications include daemons which decode the received signals as well as user space applications which allow controlling a computer with a remote control.

Built by [jwilson](#)

State **complete**

Started Wed, 24 Jun 2009 23:41:59 UTC

Completed Wed, 24 Jun 2009 23:45:09 UTC

Task [build \(dist-f12, /cvs/pkgs:rpms/lirc/devel:lirc-0_8_6-0_2_pre1_fc12\)](#)

Tags [dist-f12](#)

Construção do pacote

Koji

Packages

Search

Summary

Packages

Builds

Tasks

Tags

Build Targets

Users

Hosts

Reports

Search

Thu, 25 Jun 2009 02:56:50 UTC | [login](#)

Information for user allisson

Name allisson

ID 242

Tasks [view](#)

Packages

1 through 10 of 301 >>>

Page: 1

Name ▲	Tag	Included?
amora	f9-alpha	✓
amora	dist-fc7	✓
amora	f9-beta	✓
amora	f9-final	✓
amora	f10-alpha	✓
amora	f11-alpha-2	✓
amora	f11-alpha	✓
amora	f10-beta	✓
amora	f10-final	✓
amora	f11-beta	✓

Builds

1 through 10 of 254 >>>

Page: 1

NVR	Finished ▼	State
couchdb-0.9.0-2.fc9	2009-05-08 00:42:30	✓

Done

Construção do pacote

Built by	allisson
State	complete
Started	Fri, 08 May 2009 00:36:23 UTC
Completed	Fri, 08 May 2009 00:39:37 UTC
Task	build (dist-f11-updates-candidate, /cvs/pkgs:rpms/couchdb/F-11:couchdb-0_9_0-2_fc11)
Tags	dist-f11-updates
RPMs	src couchdb-0.9.0-2.fc11.src.rpm (info) (download)
	i586 (build logs) couchdb-0.9.0-2.fc11.i586.rpm (info) (download) couchdb-debuginfo-0.9.0-2.fc11.i586.rpm (info) (download)
	ppc (build logs) couchdb-0.9.0-2.fc11.ppc.rpm (info) (download) couchdb-debuginfo-0.9.0-2.fc11.ppc.rpm (info) (download)
	ppc64 (build logs) couchdb-0.9.0-2.fc11.ppc64.rpm (info) (download) couchdb-debuginfo-0.9.0-2.fc11.ppc64.rpm (info) (download)
	x86_64 (build logs) couchdb-0.9.0-2.fc11.x86_64.rpm (info) (download) couchdb-debuginfo-0.9.0-2.fc11.x86_64.rpm (info) (download)
Changelog	* Tue Apr 21 2009 Allisson Azevedo < allisson@gmail.com > 0.9.0-2 - Fix permission for ini files. - Fix couchdb.init start process. * Tue Apr 21 2009 Allisson Azevedo < allisson@gmail.com > 0.9.0-1 Update to 0.9.0

Construção do pacote

Information for RPM couchdb-0.9.0-2.fc11.i586.rpm

ID	1215571
Name	couchdb
Version	0.9.0
Release	2.fc11
Epoch	
Arch	i586
Summary	A document database server, accessible via a RESTful JSON API
Description	Apache CouchDB is a distributed, fault-tolerant and schema-free document-oriented database accessible via a RESTful HTTP/JSON API. Among other features, it provides robust, incremental replication with bi-directional conflict detection and resolution, and is queryable and indexable using a table-oriented view engine with JavaScript acting as the default view definition language.
Build Time	2009-05-08 00:39:15 GMT
Size	490897
Payload Hash	db658d4629300dbf3b74abcb73011e26
Buildroot	dist-f11-build-448365-72421
Provides	config(couchdb) = 0.9.0-2.fc11 couch_erl_driver.so couchdb = 0.9.0-2.fc11 couchdb(x86-32) = 0.9.0-2.fc11
Requires	/bin/sh /bin/sh

Submeter o pacote como atualização

- Após a construção do pacote ele não é enviado automaticamente para o repositório
 - Esse envio automático é feito apenas na versão em desenvolvimento (rawhide)
- É necessário submeter o pacote como uma atualização
- O sistema responsável pela submissão de atualizações é o Bodhi
 - <https://admin.fedoraproject.org/updates>

Submeter o pacote como atualização



Package | Bug # | CVE



Home

Fedora 9

Metrics

Pending (28)

Testing (107)

Stable (5800)

Security (333)

Fedora 10

Metrics

Pending (54)

Testing (242)

Stable (4110)

Security (199)

Fedora 11

Metrics

Pending (69)

Testing (293)

Stable (1070)

Welcome to bodhi v0.5.27



Latest Updates

Update	Release	Status	Type	Request	Karma	Submitter	Age
perl-Net-Amazon-0.54-1.fc10	Fedora 10	pending	✦	👉	😐	iarnell	5 minutes
perl-Net-Amazon-0.54-1.fc11	Fedora 11	pending	✦	👉	😐	iarnell	5 minutes
barry-0.15-0.6.20090623git.fc11	Fedora 11	pending	🍷	🔄	😐	quantumburnz	2 hours
barry-0.15-0.6.20090623git.fc10	Fedora 10	pending	🍷	🔄	😐	quantumburnz	2 hours
barry-0.15-0.6.20090623git.fc9	Fedora 9	pending	🍷	🔄	😐	quantumburnz	2 hours
liveusb-creator-3.6.9-1.fc10	Fedora 10	pending	🍷	👉	😐	lmacken	3 hours
libguestfs-1.0.53-1.fc11	Fedora 11	pending	✦	👉	😐	rjones	4 hours
rt3-3.8.2-9.fc11	Fedora 11	pending	🍷	👉	😐	corsepiu	5 hours
rt3-3.8.2-9.fc10	Fedora 10	pending	🍷	👉	😐	corsepiu	5 hours
apr-api-docs-1.3.5-1.fc10	Fedora 10	pending	🍷	👉	😐	bojan	5 hours

Done

admin.fedoraproject.org

Submeter o pacote como atualização



Package | Bug # | CVE



allisson's Home

My Updates (80)

New Update

Fedora 9

Metrics

Pending (28)

Testing (107)

Stable (5800)

Security (333)

Fedora 10

Metrics

Pending (54)

Testing (242)

Stable (4110)

Security (199)

Fedora 11

Metrics

Pending (69)

Welcome to bodhi v0.5.27, Allisson

2009-06-25 03:16:18.425292



allisson's Updates

Update	Release	Status	Type	Request	Karma	Age
couchdb-0.9.0-2.fc10	Fedora 10	stable				48 days
couchdb-0.9.0-2.fc11	Fedora 11	stable				48 days
couchdb-0.9.0-2.fc9	Fedora 9	stable				48 days
clutter-0.8.8-1.fc11	Fedora 11	stable				64 days
clutter-0.8.8-1.fc10	Fedora 10	stable				63 days
eina-0.7.3-5.fc10	Fedora 10	stable				106 days
perl-Variable-Magic-0.32-1.fc10	Fedora 10	stable				107 days
perl-Variable-Magic-0.32-1.fc9	Fedora 9	stable				107 days
perl-AnyEvent-XMLRPC-0.4-1.fc9	Fedora 9	stable				116 days
perl-AnyEvent-XMLRPC-0.4-1.fc10	Fedora 10	stable				116 days

Submeter o pacote como atualização



Package | Bug # | CVE



allisson's Home

My Updates (80)

New Update

Fedora 9

Metrics

Pending (28)

Testing (107)

Stable (5800)

Security (333)

Fedora 10

Metrics

Pending (54)

Testing (242)

Stable (4110)

Security (199)

Fedora 11

Metrics

Pending (69)

Package

+ Add another build

Type

Request

Bugs

Close bugs when update is stable

Notes

Suggest Reboot

Enable karma

Done

admin.fedoraproject.org

Submeter o pacote como atualização



Package | Bug # | CVE



allisson's Home

My Updates (80)

New Update

Fedora 9

Metrics

Pending (28)

Testing (107)

Stable (5800)

Security (333)

Fedora 10

Metrics

Pending (54)

Testing (242)

Stable (4110)

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Fedora 11

Metrics

Pending (69)

Package

Add another build

Type

Request

Bugs

Close bugs when update is stable

Notes

Suggest Reboot

Enable karma

Done

admin.fedoraproject.org

Submeter o pacote como atualização

Feedback

 **cebbert** - 2009-06-17 11:53:51

This update has been submitted for testing

 **pbrady** - 2009-06-17 15:45:34

I needed to download this from koji manually? yum install from updates-testing didn't show any new kernels for me?

 **Anonymous Tester** - 2009-06-18 08:06:50

Works fine here.

 **heinздо** - 2009-06-18 08:45:15

Works fine here, too

 **mrunge** - 2009-06-19 09:24:12

Seems to work, but suspend to ram is still an issue, e.g.
https://bugzilla.redhat.com/show_bug.cgi?id=499047
https://bugzilla.redhat.com/show_bug.cgi?id=499651

 **bodhi** - 2009-06-19 13:44:22


This update has been pushed to testing

 **Anonymous Tester** - 2009-06-19 22:43:31

works great on i386

 **macemoneta** - 2009-06-20 00:21:56

Working here on x86_64

 **sailer** - 2009-06-22 20:31:09

Basically works for me, but suspend-to-ram still only works about half the time (acer TM3004WTMi)

Perguntas?

Obrigado por sua atenção!

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