

OwnCloud im Eigenheim

Bernhard Trummer

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29. April 2016

- TU / Telematik (1994 – 2001)
- Angestellt bei Infonova (seit 2000)

- Motivation.
- Installation.
- Anbindung von Thunderbird bzw. Kontakt.
- Anbindung von Smartphones (Android).
- Meine Installation.
- Security.
- Q & A

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Motivation

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- Synchronisiert zwischen Handy, Tablet, Laptop, PC.
- Geht doch eh über die \$CLOUD.
- Ja, eh, aber...

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- Brauchen \$SIE auch gar nicht.
- Du gibst Deine Daten ja freiwillig her.
- Und damit auch die Kontrolle darüber.

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- Einfach selber eine \$CLOUD betreiben.
- Zum Beispiel: ownCloud
- (ist nicht so schwer wie es klingt)

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Installation

- Debian 8 (jessie)
- Apache, PHP, MySQL
- ownCloud 9
- Port-Forwarding fuer SSH und Apache
- Passwort für alles: 123

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- Initial: nach der Debian Installation.
- MySQL: nach der MySQL Installation.
- OwnCloud: nach der ownCloud Installation.
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```
root@owncloud:/home/owncloud# apt-get install mysql-server
```

```
...
```

```
New password for the MySQL "root" user:
```

```
123
```

Datenbank fuer ownCloud anlegen

```
root@owncloud:/home/owncloud# mysql -u root -p

mysql> CREATE USER 'owncloud'@'localhost' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.00 sec)

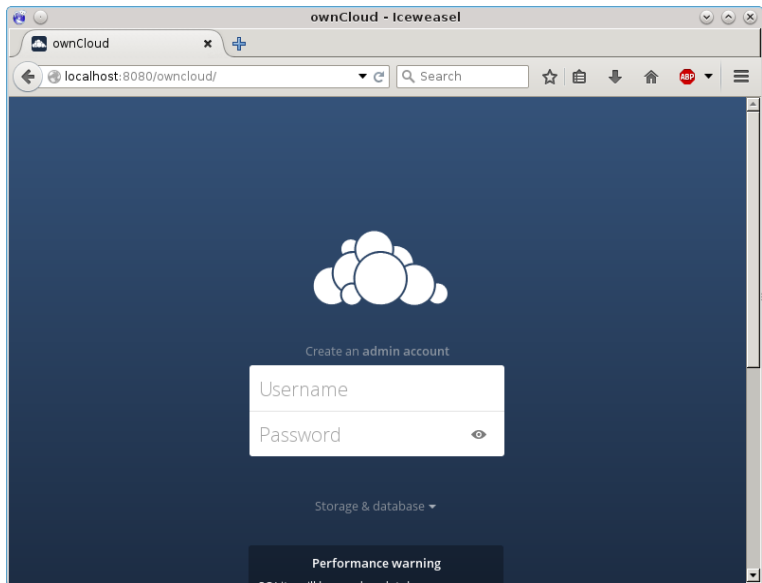
mysql> CREATE DATABASE IF NOT EXISTS owncloud;
Query OK, 1 row affected (0.00 sec)

mysql> GRANT ALL PRIVILEGES ON owncloud.* TO 'owncloud'@'localhost' IDENTIFIED BY '123';
Query OK, 0 rows affected (0.00 sec)

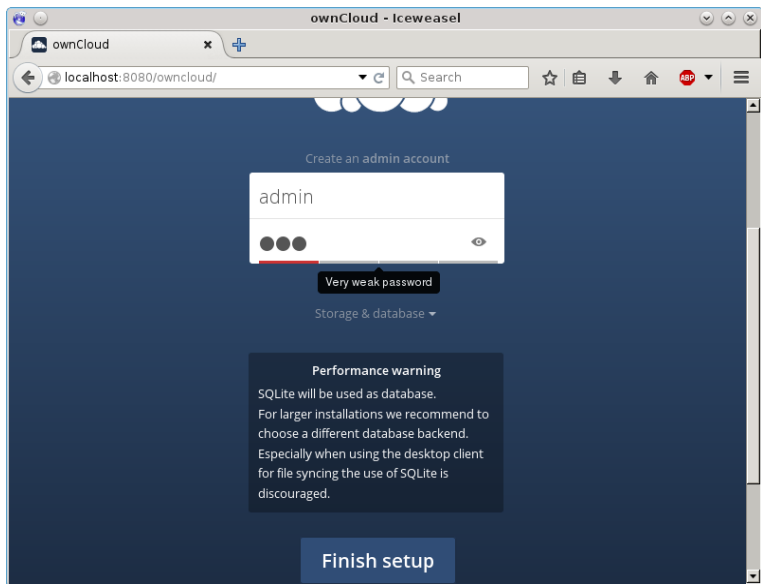
mysql> quit
Bye
```

```
root@owncloud:/home/owncloud#  
  wget -nv https://download.owncloud.org/download/repositories/stable/Debian_8.0/Release.key  
root@owncloud:/home/owncloud# apt-key add - < Release.key  
  
root@owncloud:/home/owncloud#  
  sh -c "echo 'deb http://download.owncloud.org/download/repositories/stable/Debian_8.0/ /' \  
>> /etc/apt/sources.list.d/owncloud.list"  
  
root@owncloud:/home/owncloud# apt-get update  
...  
  
root@owncloud:/home/owncloud# apt-get install owncloud  
...
```

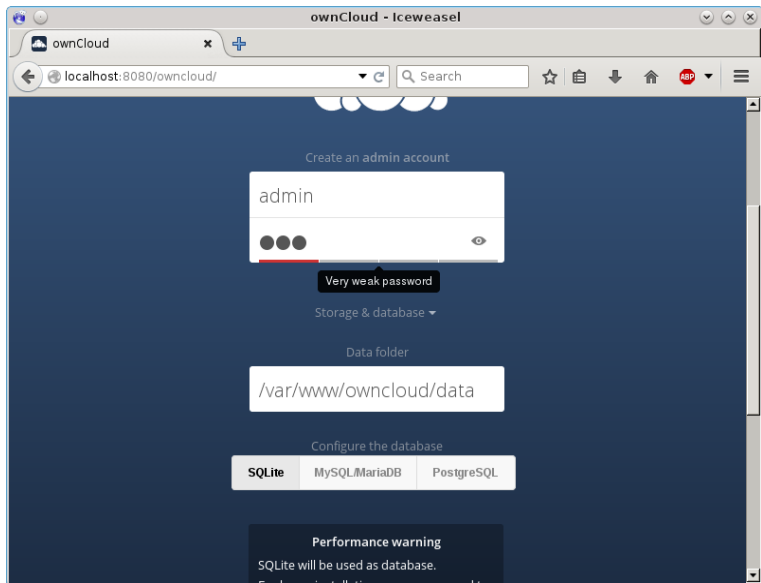
ownCloud: Grundkonfiguration



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ownCloud: Grundkonfiguration



The screenshot shows a web browser window titled "ownCloud - Iceweasel" with the address bar displaying "localhost:8080/owncloud/". The page content is as follows:

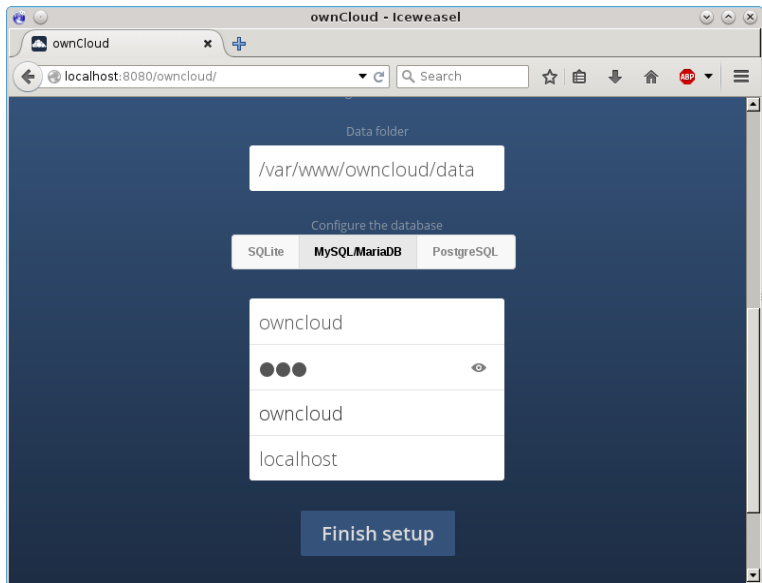
- Create an admin account**: A form with the username "admin" and a password field containing three dots. A tooltip below the password field reads "Very weak password".
- Storage & database**: A dropdown menu.
- Data folder**: A text input field containing the path `/var/www/owncloud/data`.
- Configure the database**: Three buttons for "SQLite", "MySQLMariaDB", and "PostgreSQL". The "SQLite" button is highlighted.
- Performance warning**: A dark box containing the text "SQLite will be used as database."

ownCloud: Grundkonfiguration

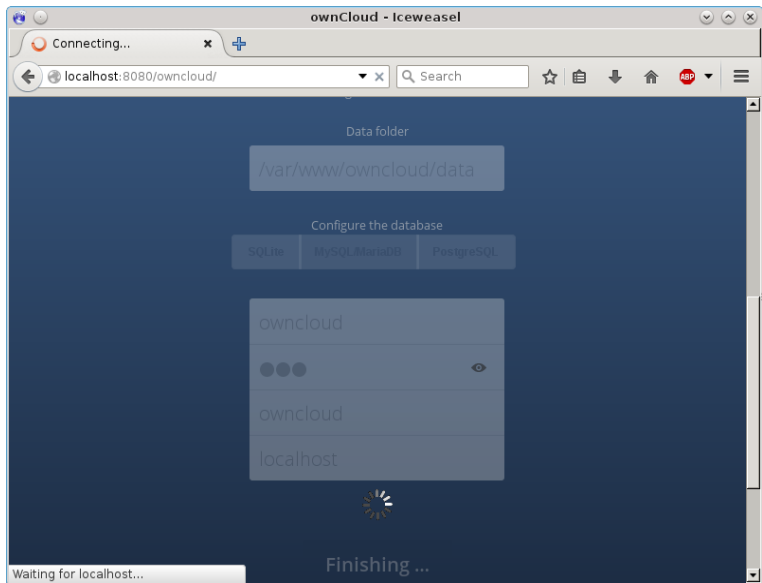
The screenshot shows a web browser window titled "ownCloud - Iceweasel" with the address bar displaying "localhost:8080/owncloud/". The page content is as follows:

- Data folder:** A text input field containing the path `/var/www/owncloud/data`.
- Configure the database:** Three tabs are visible: "SQLite", "MySQLMariaDB" (which is selected), and "PostgreSQL".
- Database user:** A text input field.
- Database password:** A text input field with a toggle icon (an eye) to the right.
- Database name:** A text input field containing the value "localhost".
- Finish setup:** A large blue button at the bottom of the form.

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The screenshot shows a web browser window titled "Files - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/apps/files/". The interface includes a navigation sidebar on the left with options: "All files", "Favorites", "Shared with you", "Shared with others", "Shared by link", "Tags", "Deleted files", and "Settings". The main content area shows a file manager view with a table of folders:

Name	Size
Documents	35
Photos	663
2 folders	698

The status bar at the bottom of the browser window shows the URL "localhost:8080/owncloud/index.php/apps/files/#".

ownCloud: User anlegen

The screenshot shows a web browser window titled "Files - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/apps/files/". The page content includes a sidebar with navigation options: "All files", "Favorites", "Shared with you", "Shared with others", "Shared by link", "Tags", "Deleted files", and "Settings". The main area shows a file manager view with a "Name" column and two folders: "Documents" and "Photos". A dropdown menu is open, showing options: "Personal", "Users", "Admin", "Help", and "Log out". The status bar at the bottom of the browser shows the URL "localhost:8080/owncloud/index.php/settings/users".

ownCloud: User anlegen

The screenshot shows a web browser window titled "Users - ownCloud - Iceweasel" with the address bar displaying "localhost:8080/owncloud/index.php/settings/use". The page content includes a "Users" header with a search icon and the text "admin". On the left, there is a sidebar with "Add Group" and a list of groups: "Everyone" and "Admins". The main area features a form with fields for "Username", "Password", and "Groups", and a "Create" button. Below the form is a table with the following data:

	Username	Full Name	Password	Groups
1	admin	admin	●●●●●●	admin

A settings gear icon is located in the bottom left corner of the interface.

ownCloud: User anlegen

The screenshot shows the 'Users - ownCloud - Iceweasel' browser window. The address bar displays 'localhost:8080/owncloud/index.php/settings/use'. The page title is 'Users'. On the left, there is a sidebar with 'Add Group' and a list of groups: 'Everyone' and 'Admins'. The main content area shows a form for creating a user with the following fields: 'user' (text input), a password field with three dots, a 'Groups' dropdown menu, and a 'Create' button. Below the form is a table with the following data:

	Username	Full Name	Password	Groups
1	admin	admin	●●●●●●●●	admin

At the bottom left of the page, there is a gear icon for settings.

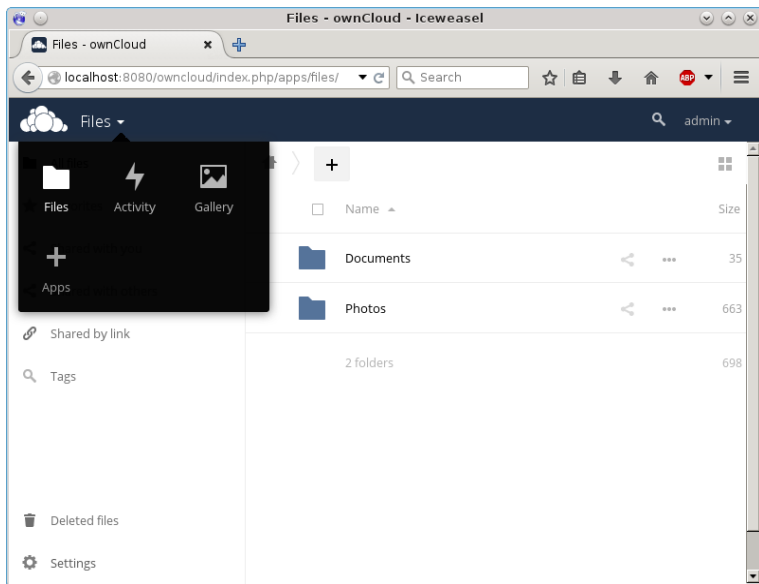
ownCloud: User anlegen

The screenshot shows a web browser window titled "Users - ownCloud - Iceweasel". The address bar shows the URL "localhost:8080/owncloud/index.php/settings/use". The page content includes a navigation bar with "Users" and a search bar. Below this is a form to add a new user with fields for "Benutzername", "Passwort", and "Groups", and a "Create" button. A table lists existing users:

	Benutzername	Full Name	Passwort	Groups
Everyone	admin	admin	●●●●●●●●	admin
Admins	user	user	●●●●●●●●	no group

The browser's status bar at the bottom shows the path "localhost:8080/owncloud/index.php/apps/files?dir=//Photos".

ownCloud: Apps fuer Kalender und Adressbuch



The screenshot shows a web browser window titled "Files - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/apps/files/". The main content area shows the "Files" app interface. A dark overlay menu is open over the "Files" app icon, showing options: "Files", "Activity", "Gallery", and "Apps". The main interface shows a list of folders: "Documents" (35 items) and "Photos" (663 items). The total size of the folders is 698. The interface also includes a search bar, a user profile "admin", and a sidebar with options like "Shared by link", "Tags", "Deleted files", and "Settings".

Name	Size
Documents	35
Photos	663
2 folders	698

ownCloud: Apps fuer Kalender und Adressbuch

The screenshot displays the 'Apps' management interface in a web browser. The browser's address bar shows the URL `localhost:8080/owncloud/index.php/settings/app`. The page title is 'Apps - ownCloud - Iceweasel'. The interface includes a sidebar on the left with navigation options: 'Enabled', 'Not enabled', 'Multimedia', 'Productivity', 'Game', 'Tool', and 'Developer documentation'. The main content area lists two installed apps:

- Activity 2.2.1**: by Frank Karlitschek, Joas Schilling (AGPL-licensed). It has a lightning bolt icon, a green 'Official' badge, and a 'Disable' button. A 'Show description ...' link is present below the app name.
- Collaborative tags 0.2**: by Vincent Petry (AGPL-licensed). It has a gear icon, a green 'Official' badge, and a 'Disable' button. A 'Show description ...' link is present below the app name.

At the bottom left of the page, there is a gear icon for settings. The browser's status bar at the bottom shows navigation and search icons.

ownCloud: Apps fuer Kalender und Adressbuch

The screenshot shows a web browser window titled "Apps - ownCloud - Iceweasel". The address bar shows "localhost:8080/owncloud/index.php/settings/app". The page header includes a search bar and a user profile "admin". A sidebar on the left lists categories: Enabled, Not enabled, Multimedia, Productivity, Game, Tool, and Developer documentation. The main content area displays two app cards:

- Calendar 1.1**
by owncloud (AGPL-licensed)
Approved ★★★★★
Show description ...
Enable
- Contacts 1.1.0.0**
by owncloud (AGPL-licensed)
Approved ★★★★★
Show description ...
Enable

ownCloud: Apps fuer Kalender und Adressbuch

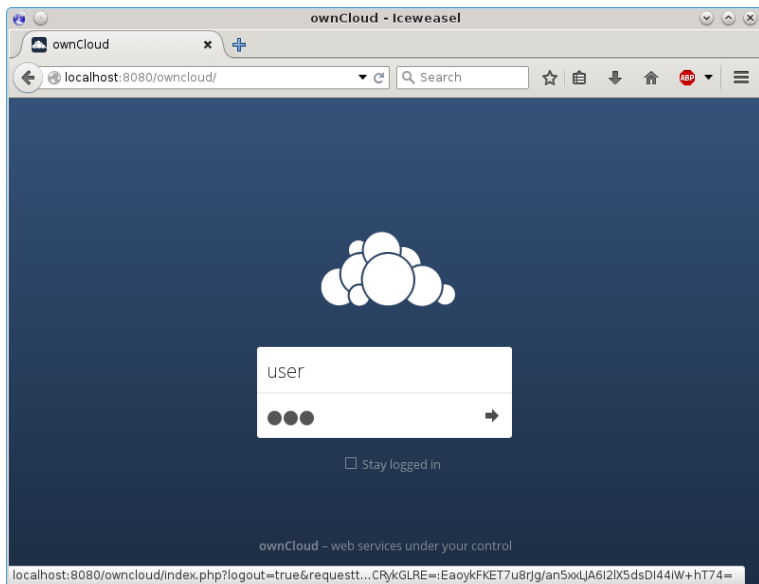
The screenshot shows a web browser window titled "Apps - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/settings/app". The page header includes a search bar and a user profile for "admin". A left sidebar lists various app categories: Enabled, Not enabled, Multimedia, Productivity, Game, Tool, and Developer documentation. The main content area displays two app cards:

- Calendar 1.1**
 - by owncloud (AGPL-licensed)
 - Approved (5 stars)
 - Show description ...
 - Disable
- Contacts 1.1.0.0**
 - by owncloud (AGPL-licensed)
 - Approved (5 stars)
 - Show description ...
 - Disable

ownCloud: Apps fuer Kalender und Adressbuch

The screenshot shows a web browser window titled "Apps - ownCloud - Iceweasel" with the address bar displaying "localhost:8080/owncloud/index.php/settings/app". The page content includes a dark navigation bar with the "Apps" menu open, showing options for Files, Activity, Gallery, Calendar, Contacts, and Apps. The main area displays two app cards: "Calendar 1.1" and "Contacts 1.1.0.0", both by owncloud (AGPL-licensed) and marked as "Approved" with five stars. Each card has a "Show description ..." link and a "Disable" button. The browser's address bar at the bottom shows "localhost:8080/owncloud/index.php/settings/apps".

ownCloud: Login als user



ownCloud: Kalender

The screenshot shows a web browser window titled "Calendar - ownCloud - Iceweasel". The address bar shows the URL "localhost:8080/owncloud/index.php/apps/calendar:". The page header includes the ownCloud logo, the text "Calendar", and a user profile icon labeled "user".

The main content area displays a calendar for April 2016. The view is set to "Month". The calendar grid shows the following dates:

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
New Calendar						
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

The date 17th is highlighted in yellow. On the left side, there is a sidebar with a "default" calendar name, a share icon, and a "Settings" gear icon at the bottom.

ownCloud: Kalender

The screenshot shows a web browser window titled "Calendar - ownCloud - Iceweasel". The address bar shows the URL "localhost:8080/owncloud/index.php/apps/calendar:". The page header includes the ownCloud logo, the text "Calendar", and a user profile dropdown labeled "user".

The main content area displays a calendar for April 2016. The view is set to "Month". The calendar grid shows days from 27 to 7. A "New Calendar" button is visible in the top-left of the grid. A calendar entry for the 17th is highlighted in yellow. On the left sidebar, there is a "default" calendar entry with a green dot and a share icon. Below it, a "default" label is highlighted in a yellow box.

At the bottom left, there is a "Settings" icon and the URL "localhost:8080/owncloud/index.php/apps/calendar/#/".

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
New Calendar						
3	4	5	6	7	8	9
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The main content area displays a calendar for April 2016. The view is set to "Month". The calendar grid shows dates from 27 to 7. A context menu is open over the date 17, showing options: "edit" (pencil icon), "share" (link icon), "download" (downward arrow icon), and "delete" (trash icon). The text "default" is visible above the menu.

At the bottom left, there is a "Settings" link with a gear icon.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
New Calendar						
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

ownCloud: Kalender

The screenshot shows a web browser window titled "Calendar - ownCloud - Iceweasel". The address bar shows the URL "localhost:8080/owncloud/index.php/apps/caled:". The page header includes the ownCloud logo, the text "Calendar", and a user profile dropdown labeled "user".

The main interface features a left sidebar with the following elements:

- Navigation arrows and the text "April 2016".
- View mode buttons: "Day", "Week", "Month" (selected), and "Today".
- A calendar name "default" with a share icon and a menu icon.
- A search bar containing the text "http://localhost:8080/owncloud/re".
- A "Settings" button at the bottom.

The main calendar area is a grid for April 2016. The days of the week are labeled at the top: Sun, Mon, Tue, Wed, Thu, Fri, Sat. The dates are arranged in a grid, with the 17th of April highlighted in yellow. The text "New Calendar" is visible in the top-left cell of the grid.

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
New Calendar						
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
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ownCloud: Kalender

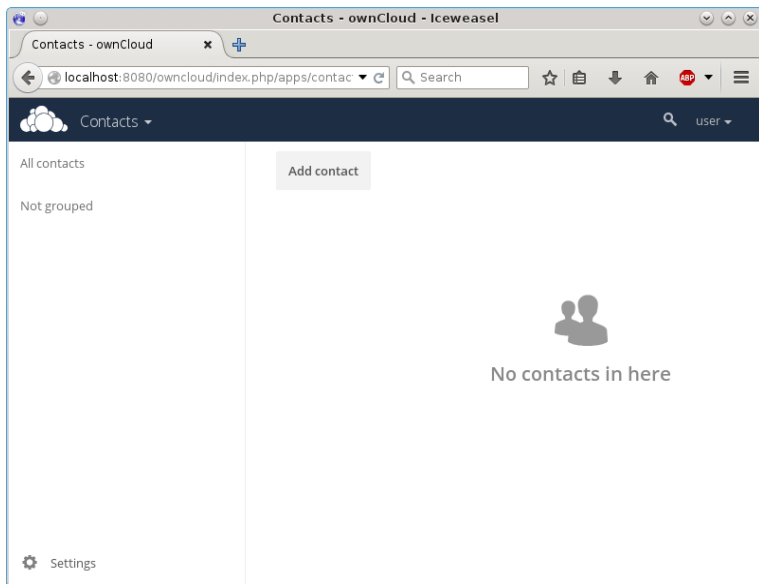
The screenshot shows a web browser window titled "Calendar - ownCloud - Iceweasel". The address bar shows the URL "localhost:8080/owncloud/index.php/apps/calendar:". The page header includes the ownCloud logo, the text "Calendar", and a user profile icon labeled "user".

The main content area displays a calendar for April 2016. The view is set to "Month". The calendar grid shows dates from 27 to 30. The date 17 is highlighted in yellow. The text "New Calendar" is visible in the top-left cell of the grid.

On the left sidebar, there are several controls:

- Navigation arrows and the text "April 2016".
- View toggles: "Day", "Week", "Month" (selected), and "Today".
- A "default" label and a share icon.
- A "Settings" gear icon.
- An "Import calendar" button with an upload icon.
- Input fields for "Primary CalDAV address" and "iOS/OS X CalDAV address", both containing the URL "http://localhost:8080/owncloud/re".

Sun	Mon	Tue	Wed	Thu	Fri	Sat
27	28	29	30	31	1	2
New Calendar						
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7



ownCloud: Adressbuch

The screenshot shows a web browser window titled "Contacts - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/apps/contac". The page header includes a search bar and a user profile dropdown labeled "user". The main content area is titled "Contacts" and shows "All contacts" and "Not grouped". A prominent "Add contact" button is visible. In the center, there is a large icon of two people and the text "No contacts in here". The left sidebar contains a "Settings" gear icon, an "Import" button with an upload arrow, and a "default" label with link, share, and trash icons. At the bottom of the sidebar, there is a text input field labeled "Address book name" with a right-pointing arrow.

ownCloud: Adressbuch

The screenshot shows a web browser window titled "Contacts - ownCloud - Iceweasel". The address bar displays "localhost:8080/owncloud/index.php/apps/contac". The page header includes a search bar and a user profile dropdown labeled "user". The main content area is titled "Contacts" and shows "All contacts" and "Not grouped" sections. A prominent message in the center reads "No contacts in here" with a silhouette of two people. On the left sidebar, there are "Settings" and "Import" buttons. Below, a "default" group is listed with a link icon, a share icon, and a trash icon. The URL "http://localhost:8080/owncloud/rem" is visible in a text field. At the bottom of the sidebar, there is an "Address book name" input field with a right-pointing arrow.

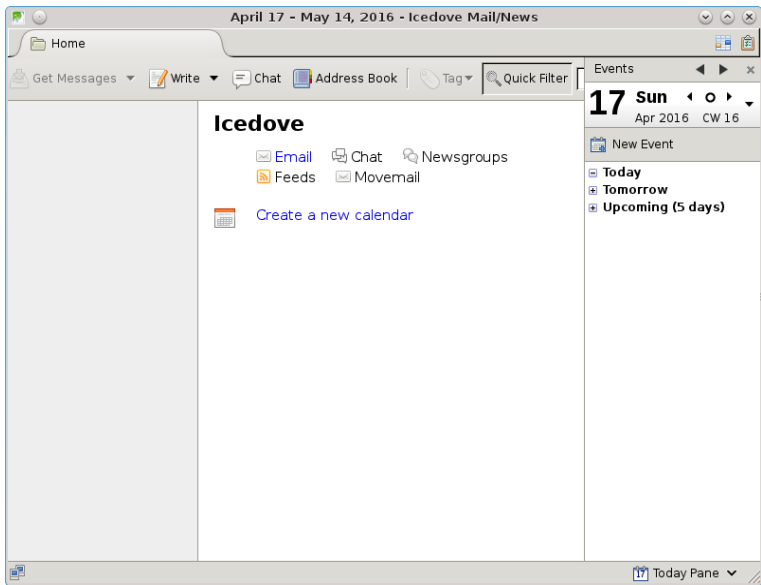
Thunderbird

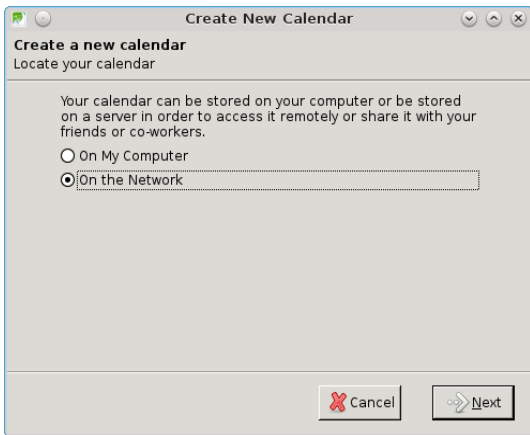
- **Lightning Calendar extension**
- Inverse SOGo Connector
- Debian Pakete:
 - iceowl-extension
 - xul-ext-sogo-connector

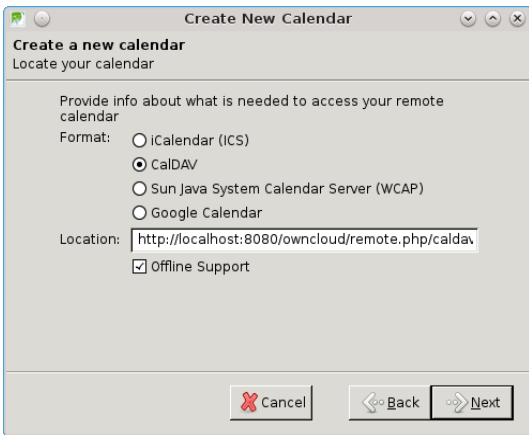
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Thunderbird: Kalender







Thunderbird: Kalender

Create New Calendar

Create a new calendar
Customize your calendar

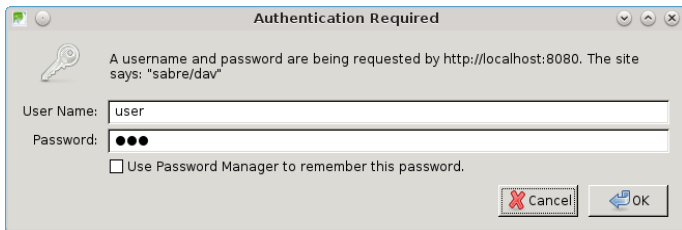
You can give your calendar a nickname and colorize the events from this calendar.

Name:

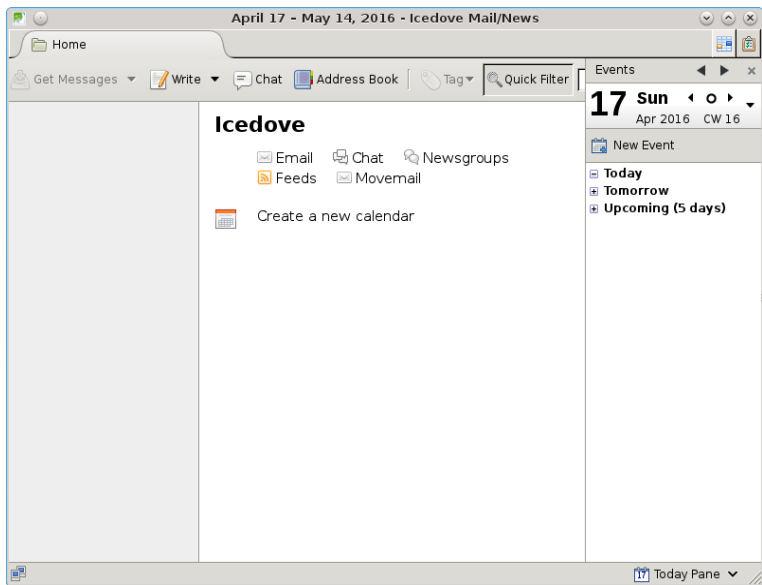
Color:

Show Reminders:

E-Mail:



Thunderbird: Kalender



Thunderbird: Kalender

The screenshot shows the Thunderbird Calendar window titled "Calendar - Icedove Mail/News". The interface includes a top toolbar with "Synchronize", "Event", "Task", "Edit", and "Delete" buttons. Below the toolbar is a search bar for "Events in the Next 7 Days" and a "Tasks" panel on the right with a "Show completed Tasks" checkbox. The main calendar area displays a multi-week view for April and May 2016. The current view is set to "Multiweek" with "CWs: 16-19" selected. The calendar grid shows dates from April 17 to May 14. The "Sun" column is highlighted in yellow, and the "Sat" column is highlighted in light green. The "Today" pane is visible at the bottom right.

April 2016						
Su	Mo	Tu	We	Th	Fr	Sa
27	28	29	30	31	1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
1	2	3	4	5	6	7

Multiweek						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
Apr 17	18	19	20	21	22	23
24	25	26	27	28	29	Apr 30
May 1	2	3	4	5	6	7
8	9	10	11	12	13	May 14

- Primäre CalDAV-URL funktioniert nicht:
 - `http://localhost:8080/owncloud/remote.php/dav/`
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 - `http://localhost:8080/owncloud/remote.php/dave.php/dav/calendars/user/default/`
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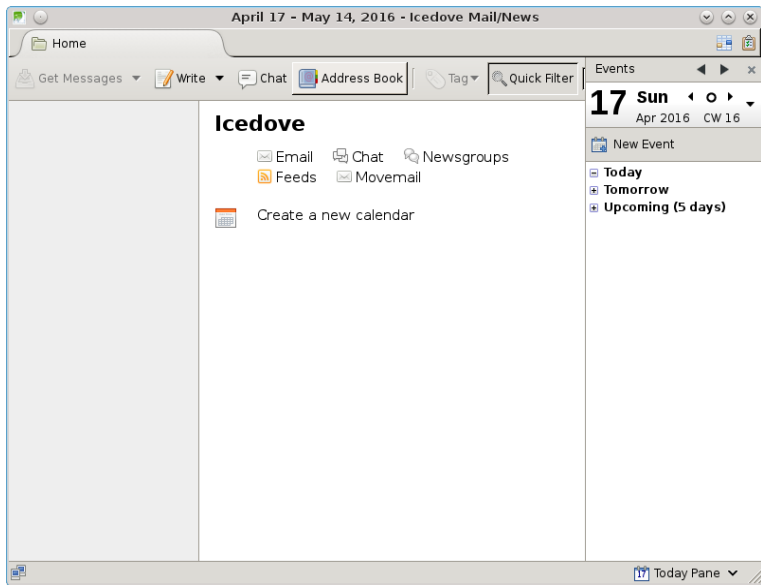
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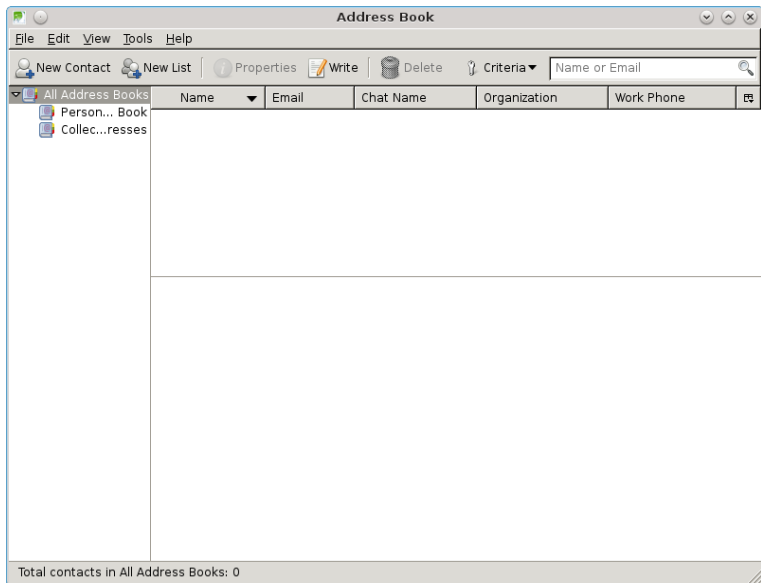
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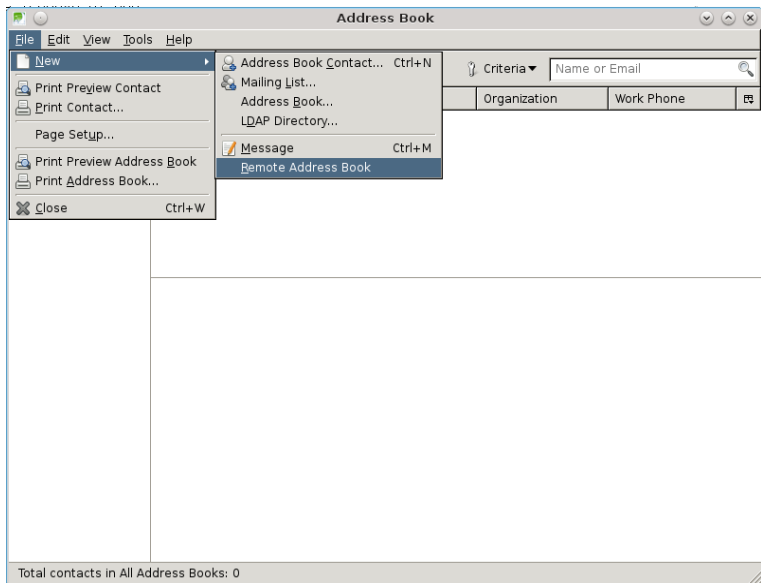
Thunderbird: Adressbuch



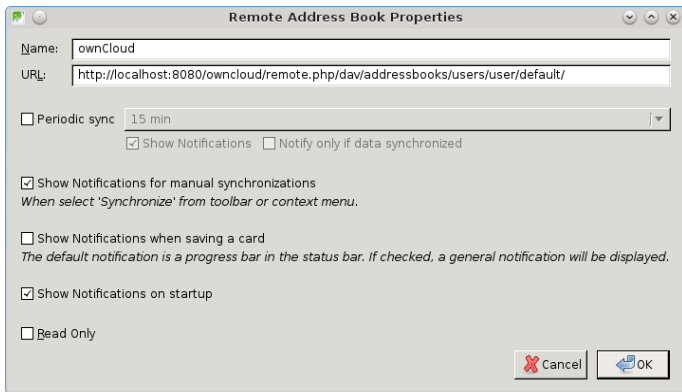
Thunderbird: Adressbuch



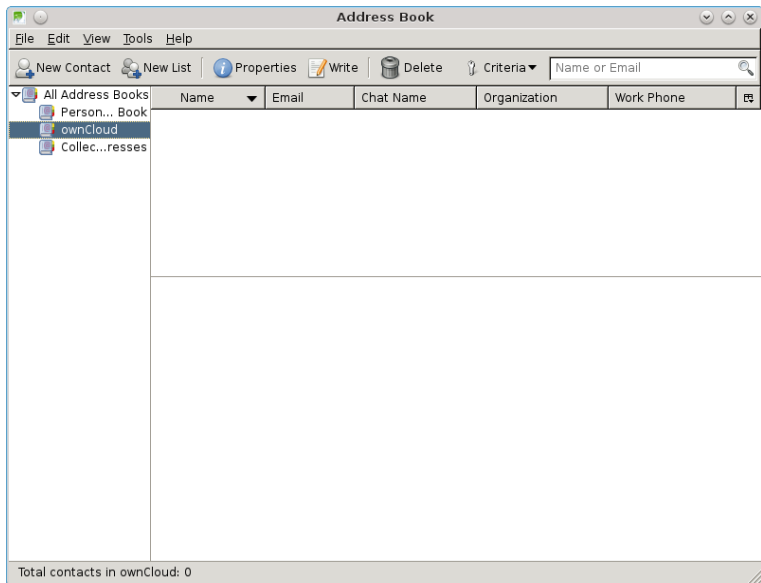
Thunderbird: Adressbuch



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Thunderbird: Adressbuch



kontakt

- Keine Add-ons notwendig
- Insgesamt einfacher einzurichten als bei Thunderbird

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Summary - Kontakt

File Settings Help

New Message

Summary for Sunday, April 17, 2016

Upcoming Events
No upcoming events starting within the next 7 days

Pending To-dos
No pending to-dos due within the next 7 days

Upcoming Special Dates
No special dates pending within the next 7 days

New Messages
No unread messages in your monitored folders

Popup Notes
No note found

Summary
Mail
Contacts
Calendar
To-do List
Feeds
Journal
Popup Notes

Network connection detected, all network jobs resumed

Calendar - Kontakt

File Edit View Go Actions Schedule Settings Help

New Event Back Forward Today Day Week Agenda Month Timeline

April 2016

Sunday, April 17, 2016

	Sun	Mon	Tue	Wed	Thu	Fri	Sat
12/13	27	28	29	30	31	1	2
13/14	3	4	5	6	7	8	9
14/15	10	11	12	13	14	15	16
15/16	17	18	19	20	21	22	23
16/17	24	25	26	27	28	29	30
17/18	1	2	3	4	5	6	7

Summary

Mail

Contacts

Calendar

To-do List

Feeds

Journal

Popup Notes

No Item Selected

Select an event, to-do or journal entry to view its details here.

Personal Calendar

Europe/Vienna

7:00

8:00

9:00

10:00

11:00

12:00

1:00

2:00

3:00

4:00

Network connection detected, all network jobs resumed



DAV groupware configuration wizard ? ▾ ▲ ▿ ✕

Login Credentials
Enter your credentials to login to the groupware server

User

Password

< Back Next > Cancel



DAV groupware configuration wizard

Connection
Enter the connection information for the groupware server

Host

Installation path

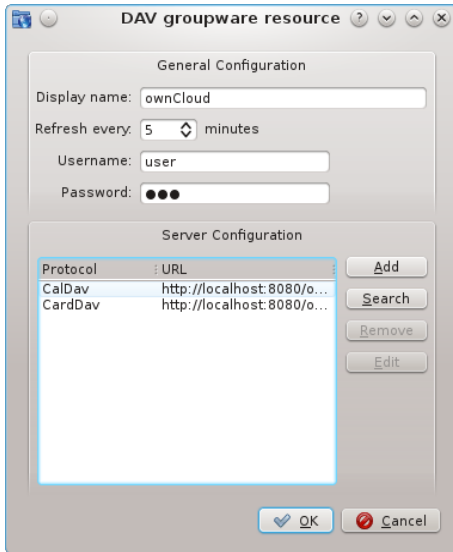
Use secure connection

Final URL (CalDav) <http://localhost:8080/owncloud/remote.php/caldav/>
Final URL (CardDav) <http://localhost:8080/owncloud/remote.php/carddav/>

< Back Next > Cancel







kontakt: Kalender

Calendar - Kontakt

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Mail

Contacts

No Item Selected

Select an event, to-do or journal entry to view its details here.

Journal

- Personal Calendar
- ownCloud

Europe/Vienna

7:00

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Calendar - Kontakt

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Europe/Vienna

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- ownCloud
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Calendar - Kontakt

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Europe/Vienna

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Summary
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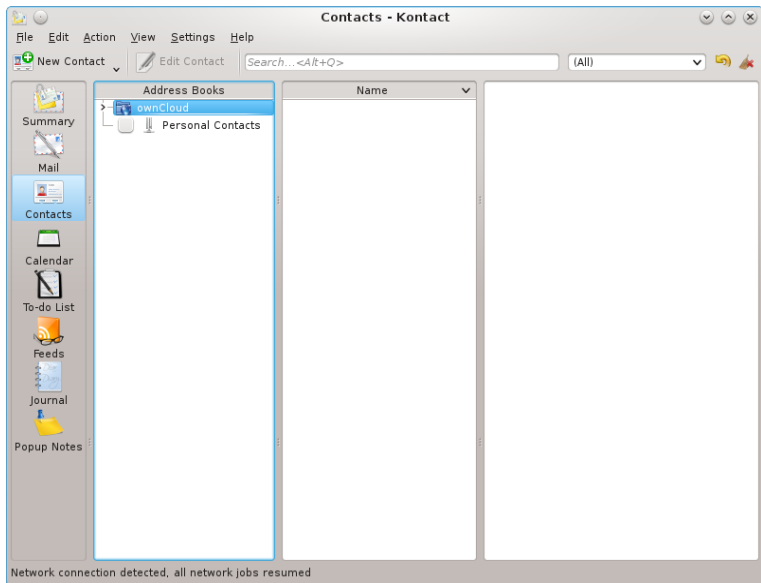
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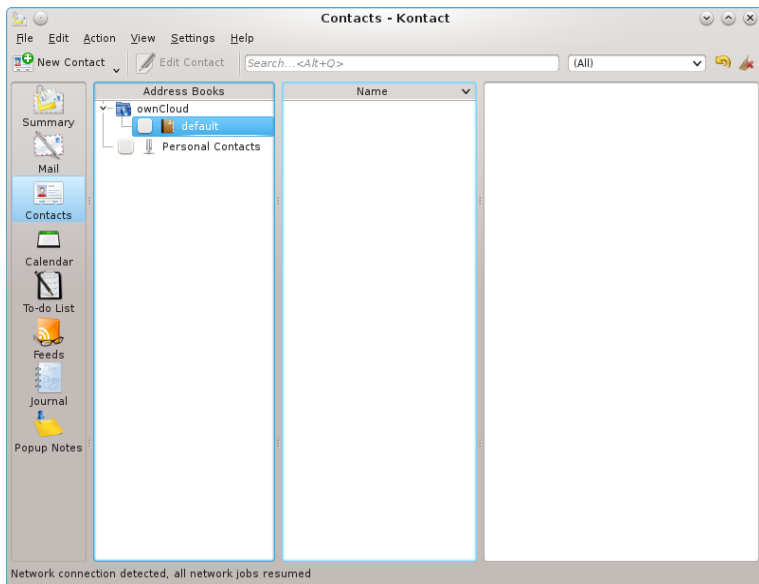
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ownCloud
default

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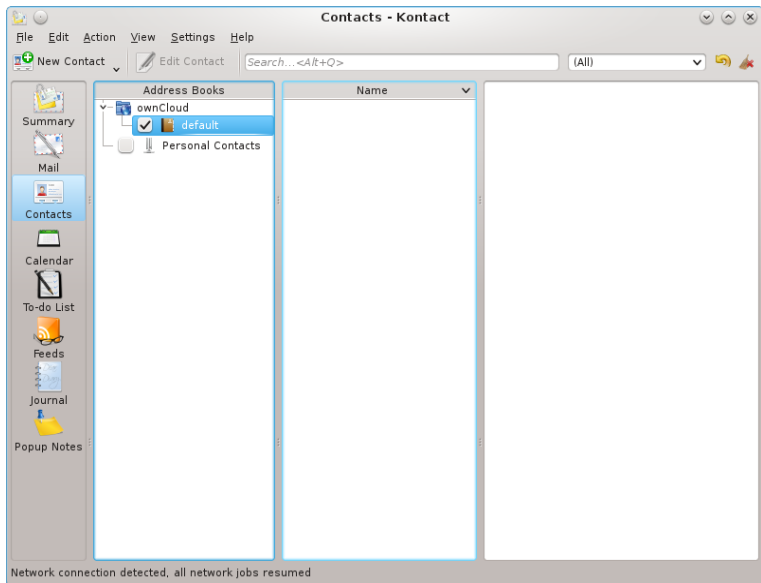
kontakt: Adressbuch



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Android

- F-Droid, Play
- Für Synchronisation von Dateien oder Fotos.
- Keine Synchronisation von Kalender und Adressbücher.

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Android: Sync Adapter

- CalDAV Sync Adapter (F-Droid, Play)
- CardDAV-Sync free (Play)
- DAVdroid (F-Droid, Play)

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Meine Installation

- Apache, PHP, MySQL, ownCloud auf Stand-PC.
- OK für Thunderbird/kontakt auf PC.
- Android-Sync nur daheim (über WLAN).

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- Soekris net5501 + Harddisk
- Debian 7 (wheezy)
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- SSL: Self-signed Zertifikat

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Security

- Sichere / verschiedene Passwörter.
- Updates einspielen:
 - Linux Distribution
 - Apache, PHP
 - OwnCloud
- Apache: SSL (zumindest self-signed Zertifikat)

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- Verschlüsselung der Daten.
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- HTTPS (SSL) verwenden.
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- <https://download.owncloud.org/download/repositories/stable/owncloud/>
- https://doc.owncloud.org/server/9.0/admin_manual/configuration_database/linux_database_configuration.html
- https://doc.owncloud.org/server/9.0/user_manual/pim/sync_thunderbird.html
- https://doc.owncloud.org/server/9.0/user_manual/pim/sync_kde.html
- https://doc.owncloud.org/server/9.0/admin_manual/configuration_server/harden_server.html

Q & A