Teedy File and Document Processing

Check index integrity / recompute quota

Sometimes the used space is wrong and may look like this:

See also: https://github.com/sismics/docs/issues/345

Checks on file system

```
cd /var/docs/

find ./ -type f -name '*' -exec du -ch {} + | grep total$
find ./ -type f -name '*_web' -exec du -ch {} + | grep total$
find ./ -type f -name '*_thumb' -exec du -ch {} + | grep total$

cd /var/docs/storage/
ll |grep -v "thumb\|web" |wc -l #Anzahl der Dateien, die weder _web noch _thumb sind
ll | grep "web" | wc -l         #Anzahl _web Dateien (sollte idealerweise mit _thumb deckend
sein)
ll | grep "thumb" | wc -l       #Anzahl _thumb Dateien (sollte idealerweise mit _web deckend
sein)
```

Checks in Database / Recalculate Quota

Get a list of all files from database which should exist/not exist on filesystem

```
/*Get all files which should be existent on HDD*/
SELECT
fil_id_c AS "FileID",
fil_iduser_c AS "Besitzer"
FROM t_file
WHERE fil_deletedate_d IS NULL
;

/*Get all files which should be deteled from HDD*/
SELECT
fil_id_c AS "FileID",
```

```
fil_iduser_c AS "Besitzer"
FROM t_file
WHERE fil_deletedate_d IS NOT NULL
;
```

Get the filesystem storage list

The following commands generate file output and send them by mail to you. If your application server and your database are on the same server you just can create some bash script to make some complete scripting solution automating psql.

```
cd /var/docs/

#get recent storage list as CSV
ll | grep -v "thumb\|web" | awk 'NR > 3 {print "\"",$5,"\";\"",$9,"\""}' | sed
's/[[:blank:]]//g' | mail -s "Teedy FileSystem" your@mail.address

#or get it as SQL statement
ll | grep -v "thumb\|web" | awk 'NR > 3 {print
"UPDATE#TMP_QUOTA_CHECK#SET#fil_size=\x27",$5,"\x27#WHERE#fil_id_c=\x27",$9,"\x27;"}' | sed
's/[[:blank:]]//g' | sed 's/#/ /g' | mail -s "Teedy FileSystem" your@mail.address
```

Create a temporary SQL table to calculate quota

```
CREATE TABLE TMP_QUOTA_CHECK(
    fil_id_c  character varying(36),
    fil_iduser_c  character varying(36),
    fil_size integer
);
```

Pre-Fill the table with existing data

```
INSERT INTO TMP_QUOTA_CHECK SELECT
fil_id_c,
fil_iduser_c
FROM t_file
WHERE fil_deletedate_d IS NULL
;
```

Insert file size data from upper generated SQL UPDATE awk statements (bash), then perform some check and calculate total quota sizes

```
SELECT * FROM tmp_quota_check WHERE fil_size IS NOT NULL;
SELECT * FROM tmp_quota_check WHERE fil_size IS NULL; --if your filesystem is consistent this must be empty! If not please check if Teedy failed to delete files in the past

SELECT
    CONCAT('UPDATE t_user SET use_storagecurrent_n=''',SUM(fil_size),''' WHERE use_id_c='''',fil_iduser_c,''';')
FROM TMP_QUOTA_CHECK
GROUP BY fil_iduser_c
;
```

Insert the new values into existing target table using the generated output statements from above

Drop temporary table

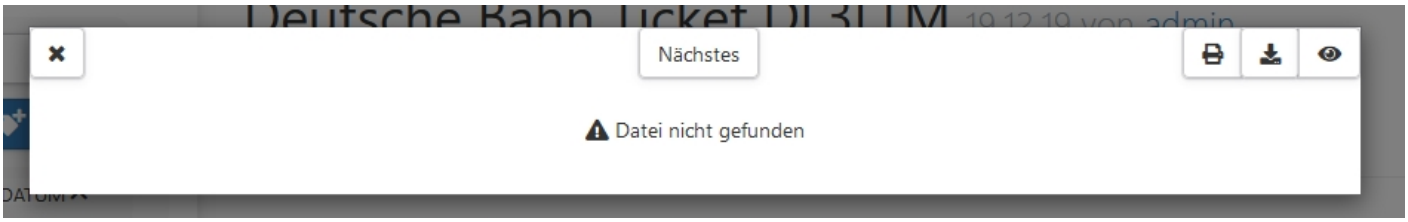
```
DROP TABLE TMP_QUOTA_CHECK;
```

Removed commit

https://github.com/sismics/docs/commit/d0335b6b161058250ec8cc44eeb2357f96176f54#diff-54e77110186f974f07aeb29c2673496fL690

Fix Preview Bug

In case the file preview is erroneous/empty but the file can be processed and it can be downloaded by URL like https://dms.yourdomain.de/api/file/:FILE_ID/data:

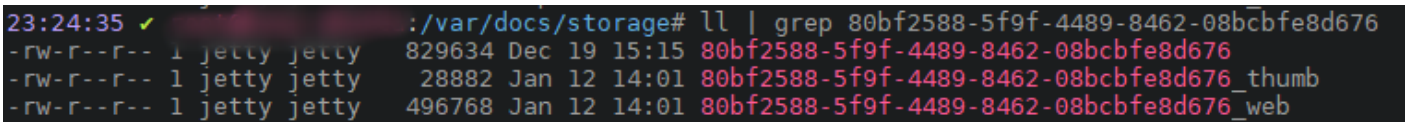


Root Cause: unkown. Seems to happen after migration from H2 to PostgreSQL

Fixing proposal

Remove the _thumb and _web files

and let Teedy create new ones by running a (complete) re-processing




```
cd /var/docs/storage
ll | grep "<YOUR_FILE_ID>"
mv <YOUR_FILE_ID>_thumb <YOUR_FILE_ID>_thumb.bak
mv <YOUR_FILE_ID>_web <YOUR_FILE_ID>_web.bak

#or just move all stuff to some sub directory if you plan to re-process the complete file
system:
mkdir thumb_web_bak
mv *_thumb *_web thumb_web_bak/

#restart your instance to let Teedy recognize that changes due to caching
sudo systemctl restart jetty9.service
```

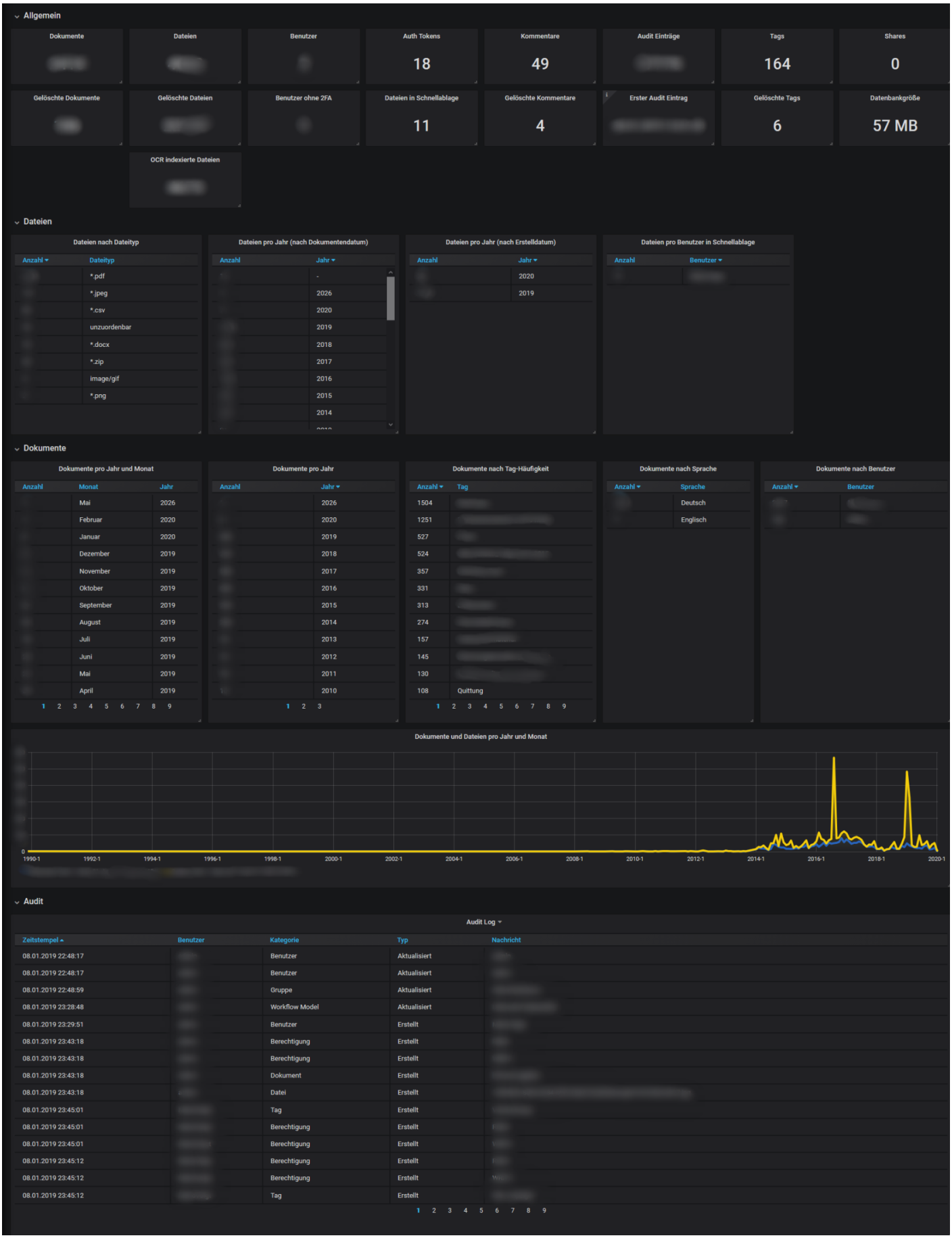
Reprocess documents

See Teedy API Scripts / database queries for reprocessing of everything.

Grafana Monitoring / Statistics

Description

A Grafana monitoring dashboard for Teedy (Sismics Docs) statistics. Helpful to have a look over security things and the effort you put in your instance. Please check if this is okay for your own use - regarding privacy protection of the mates working together on the same instance. Sorry the language for that dashboard is german but you can translate it easily using tools like deepl.com.


Allgemein
Dokumente
Dateien
Benutzer
Auth Tokens
18
Kommentare
49
Audit Einträge
Tags
164
Shares
0
Gelöschte Dokumente
Gelöschte Dateien
Benutzer ohne 2FA
Dateien in Schnellablage
11
Gelöschte Kommentare
4
Erster Audit Eintrag
Gelöschte Tags
6
Datenbankgröße
57 MB
OCR indexierte Dateien
Dateien
Dateien nach Dateityp
Anzahl
Dateityp
*.pdf
*.jpeg
*.csv
unzuordenbar
*.docx
*.zip
image/gif
*.png
Dateien pro Jahr (nach Dokumentendatum)
Anzahl
Jahr
2026
2020
2019
2018
2017
2016
2015
2014
Dateien pro Jahr (nach Erstelldatum)
Anzahl
Jahr
2020
2019
Dateien pro Benutzer in Schnellablage
Anzahl
Benutzer
Dokumente
Dokumente pro Jahr und Monat
Anzahl
Monat
Jahr
Mai 2026
Februar 2020
Januar 2020
Dezember 2019
November 2019
Oktober 2019
September 2019
August 2019
Juli 2019
Juni 2019
Mai 2019
April 2019
1 2 3 4 5 6 7 8 9
Dokumente pro Jahr
Anzahl
Jahr
2026
2020
2019
2018
2017
2016
2015
2014
2013
2012
2011
2010
1 2 3
Dokumente nach Tag-Häufigkeit
Anzahl
Tag
1504
1251
527
524
357
331
313
274
157
145
130
108 Quittung
1 2 3 4 5 6 7 8 9
Dokumente nach Sprache
Anzahl
Sprache
Deutsch
Englisch
Dokumente nach Benutzer
Anzahl
Benutzer
Dokumente und Dateien pro Jahr und Monat
0
1990-1
1992-1
1994-1
1996-1
1998-1
2000-1
2002-1
2004-1
2006-1
2008-1
2010-1
2012-1
2014-1
2016-1
2018-1
2020-1
Audit
Audit Log
Zeitstempel
Benutzer
Kategorie
Typ
Nachricht
08.01.2019 22:48:17 Benutzer Aktualisiert
08.01.2019 22:48:17 Benutzer Aktualisiert
08.01.2019 22:48:59 Gruppe Aktualisiert
08.01.2019 23:28:48 Workflow Model Aktualisiert
08.01.2019 23:29:51 Benutzer Erstellt
08.01.2019 23:43:18 Berechtigung Erstellt
08.01.2019 23:43:18 Berechtigung Erstellt
08.01.2019 23:43:18 Dokument Erstellt
08.01.2019 23:43:18 Datei Erstellt
08.01.2019 23:45:01 Tag Erstellt
08.01.2019 23:45:01 Berechtigung Erstellt
08.01.2019 23:45:01 Berechtigung Erstellt
08.01.2019 23:45:12 Berechtigung Erstellt
08.01.2019 23:45:12 Berechtigung Erstellt
08.01.2019 23:45:12 Tag Erstellt
1 2 3 4 5 6 7 8 9

Download

- https://gitea.fablabchemnitz.de/vmario/teedy-statistics/src/branch/master
- https://grafana.com/grafana/dashboards/11556

Icons in document titles

Inside Teedy we can use funny icons, if we know the correct Unicode number.

Copy + Paste. Just select the one's you need and paste them into Teedy. It works for title and description

☀ ☁ ☂ ☃ ☄ ★ ☆ ☇ ☈ ☉ ☊ ☋ ☌ ☍ ☎ ☏ ☐ ☑ ☒ ☓ ☔ ☕ ☖ ☗ ☘ ☙ ☚ ☛ ☜ ☝ ☞ ☟ ☠ ☡ ☢ ☣ ☤ ☥ ☦ ☧ ☨ ☩ ☪ ☫ ☬ ☭ ☮ ☯ ☰ ☱ ☲ ☳ ☴ ☵ ☶ ☷ ☸ ☹ ☺ ☻ ☼ ☽ ☾ ☿ ♀ ♁ ♂ ♃ ♄ ♅ ♆ ♇ ♈ ♉ ♊ ♋ ♌ ♍ ♎ ♏ ♐ ♑ ♒ ♓ ♔ ♕ ♖ ♗ ♘ ♙ ♚ ♛ ♜ ♝ ♞ ♟ ♠ ♡ ♢ ♣ ♤ ♥ ♦ ♧ ♨ ♩ ♪ ♫ ♬ ♭ ♮ ♯ ♰ ♱ ♲ ♳ ♴ ♵ ♶ ♷ ♸ ♹ ♺ ♻ ♼ ♽ ♾ ♿ ⚀ ⚁ ⚂ ⚃ ⚄ ⚅ ⚆ ⚇ ⚈ ⚉ ⚊ ⚋ ⚌ ⚍ ⚎ ⚏ ⚐ ⚑ ⚒ ⚓ ⚔ ⚕ ⚖ ⚗ ⚘ ⚙ ⚚ ⚛ ⚜ ⚝ ⚞ ⚟ ⚠ ⚡ ⚢ ⚣ ⚤ ⚥ ⚦ ⚧ ⚨ ⚩ ⚪ ⚫ ⚬ ⚭ ⚮ ⚯ ⚰ ⚱ ⚲ ⚳ ⚴ ⚵ ⚶ ⚷ ⚸ ⚹ ⚺ ⚻ ⚼ ⚽ ⚾ ⚿ ⛀ ⛁ ⛂ ⛃ ⛄ ⛅ ⛆ ⛇ ⛈ ⛉ ⛊ ⛋ ⛌ ⛍ ⛎ ⛏ ⛐ ⛑ ⛒ ⛓ ⛔ ⛕ ⛖ ⛗ ⛘ ⛙ ⛚ ⛛ ⛜ ⛝ ⛞ ⛟ ⛠ ⛡ ⛢ ⛣ ⛤ ⛥ ⛦ ⛧ ⛨ ⛩ ⛪ ⛫ ⛬ ⛭ ⛮ ⛯ ⛰ ⛱ ⛲ ⛳ ⛴ ⛵ ⛶ ⛷ ⛸ ⛹ ⛺ ⛻ ⛼ ⛽ ⛾ ⛿

https://en.wikipedia.org/wiki/Miscellaneous_Symbols

Importer for Windows

- The Bulk file importer tool is based on NodeJS
- Documentation also available under

  https://github.com/sismics/docs/tree/master/docs-importer

Download the importer

See Downloads for recent compiled setups. The importer can be also downloaded at Github. The most recent version to find is

https://github.com/sismics/docs/releases/download/v1.5/docs-importer-win.exe (which is an old one). We can also build ourselves. See below.

Building the importer

Requirements

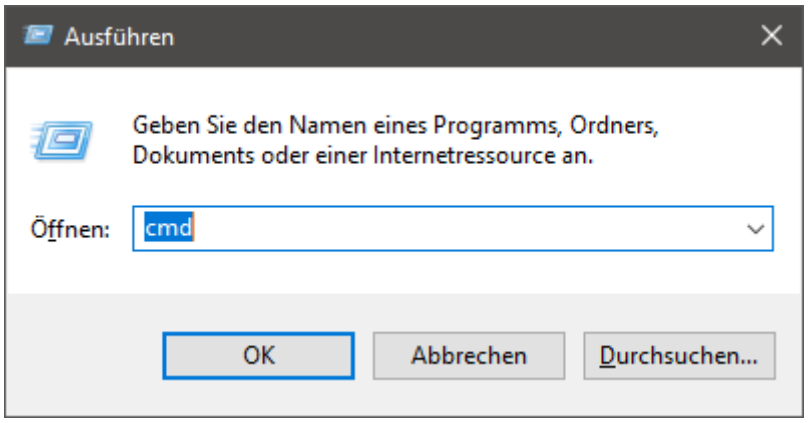
- NodeJS v10.18.0 (64 Bit) → https://nodejs.org/dist/v10.18.0/node-v10.18.0-win-x64.zip - newer version will fail!
- Git → https://git-scm.com/download/win

> Check your `%PATH%` variable. This should contain the following executables

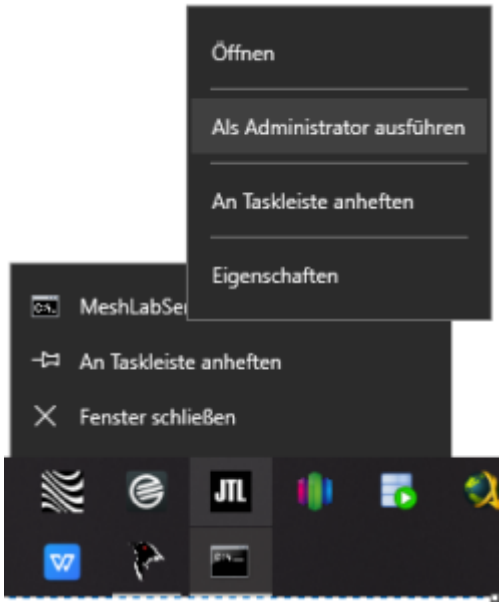
- nodejs.exe
- git.exe

Open elevated CMD Shell

1. press CTRL + R to open "Run"
2. Enter "cmd"
3. Click ok



4. Start elevated shell from current cmd. This will open up a new cmd shell with admin privileges

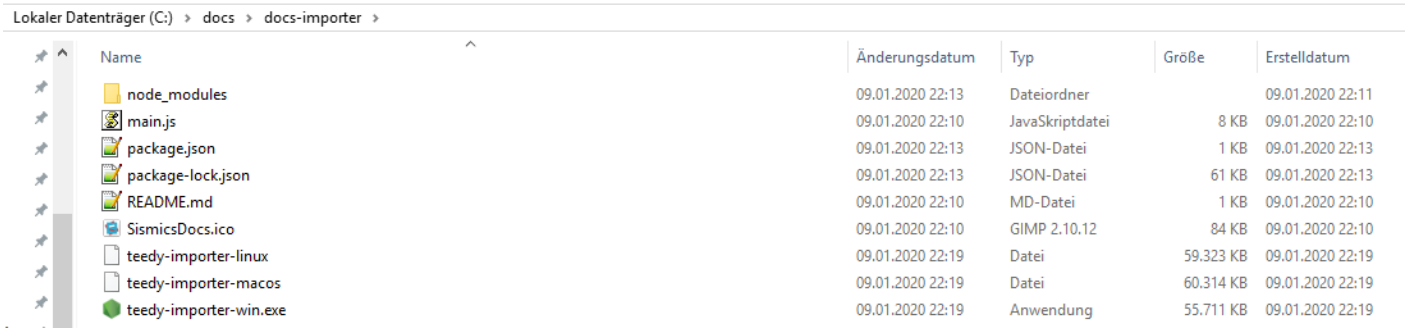


Clone Repository and run build

```
cd C:\
git clone https://github.com/sismics/docs.git
cd docs\docs-importer
npm install
npm install -g pkg
pkg .
```

```
C:\>cd docs

C:\docs>cd docs-importer

C:\docs\docs-importer>npm install
audited 350 packages in 2.259s

4 packages are looking for funding
  run `npm fund` for details

found 9 vulnerabilities (3 moderate, 6 high)
  run `npm audit fix` to fix them, or `npm audit` for details

C:\docs\docs-importer>npm install -g pkg
C:\node-v10.18.0-win-x64\pkg -> C:\node-v10.18.0-win-x64\node_modules\pkg\lib-es5\bin.js
+ pkg@4.4.2
added 138 packages from 199 contributors in 11.163s

C:\docs\docs-importer>pkg .
> pkg@4.4.2
> Targets not specified. Assuming:
  node10-linux-x64, node10-macos-x64, node10-win-x64
> Fetching base Node.js binaries to PKG_CACHE_PATH
  fetched-v10.17.0-linux-x64    [====================] 100%
  fetched-v10.17.0-win-x64      [====================] 100%
  fetched-v10.17.0-macos-x64    [====================] 100%

C:\docs\docs-importer>_
```

Check the built output



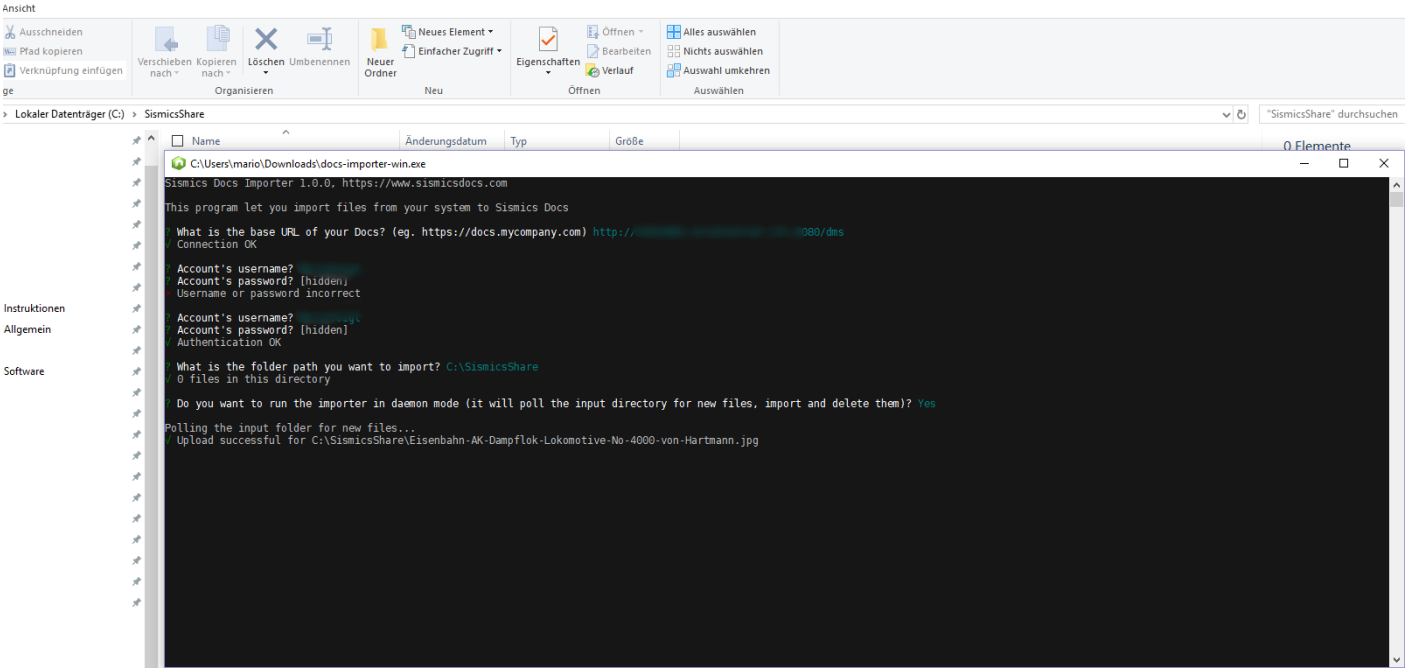
Configure to use the importer

Create new share upload directory

A special upload folder should be created, e.g. `C:\TeedyShare` - from this folder the documents will be uploaded and **cut later**.

Start docs-importer-win.exe and configure it

Please put the docs-importer-win.exe to some fixed place where it should stay, like in `C:\Teedy\docs-importer-win.exe`

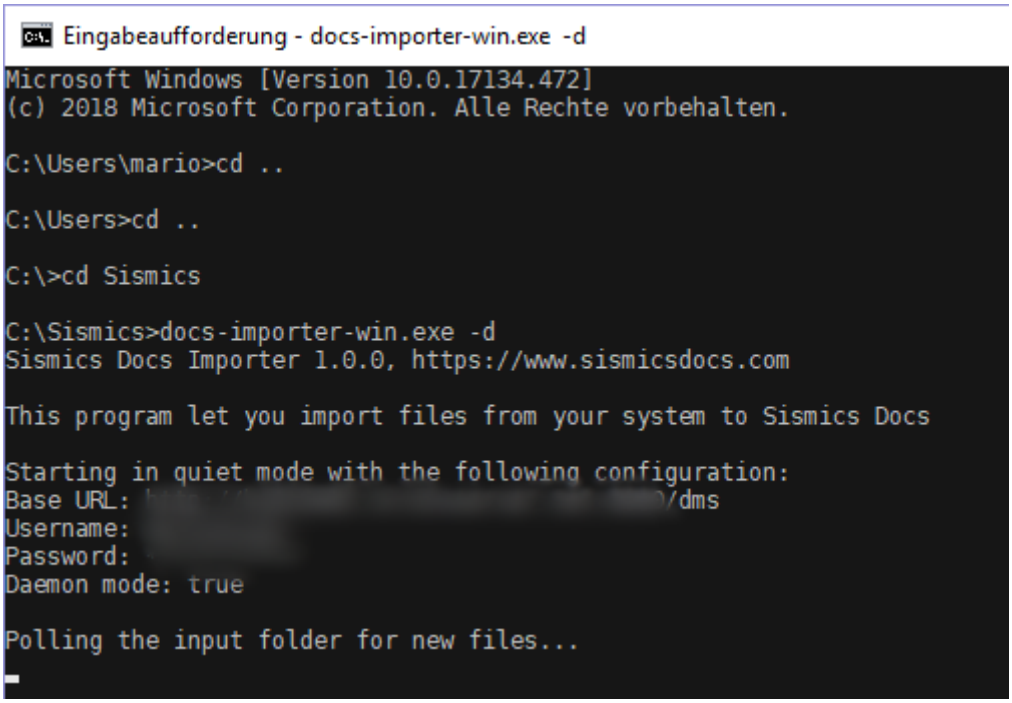


> **N**ote that the screenshot contains some older directory name.

After entering the connection data this information will be persisted in `%userprofile%\config\preferences\com.sismics.docs.importer.pref`

Start as daemon and test upload

The program can be started with the switch `-d`. It queries the specified folder every 30 seconds and uploads any existing documents to the DMS. The files are then deleted locally.



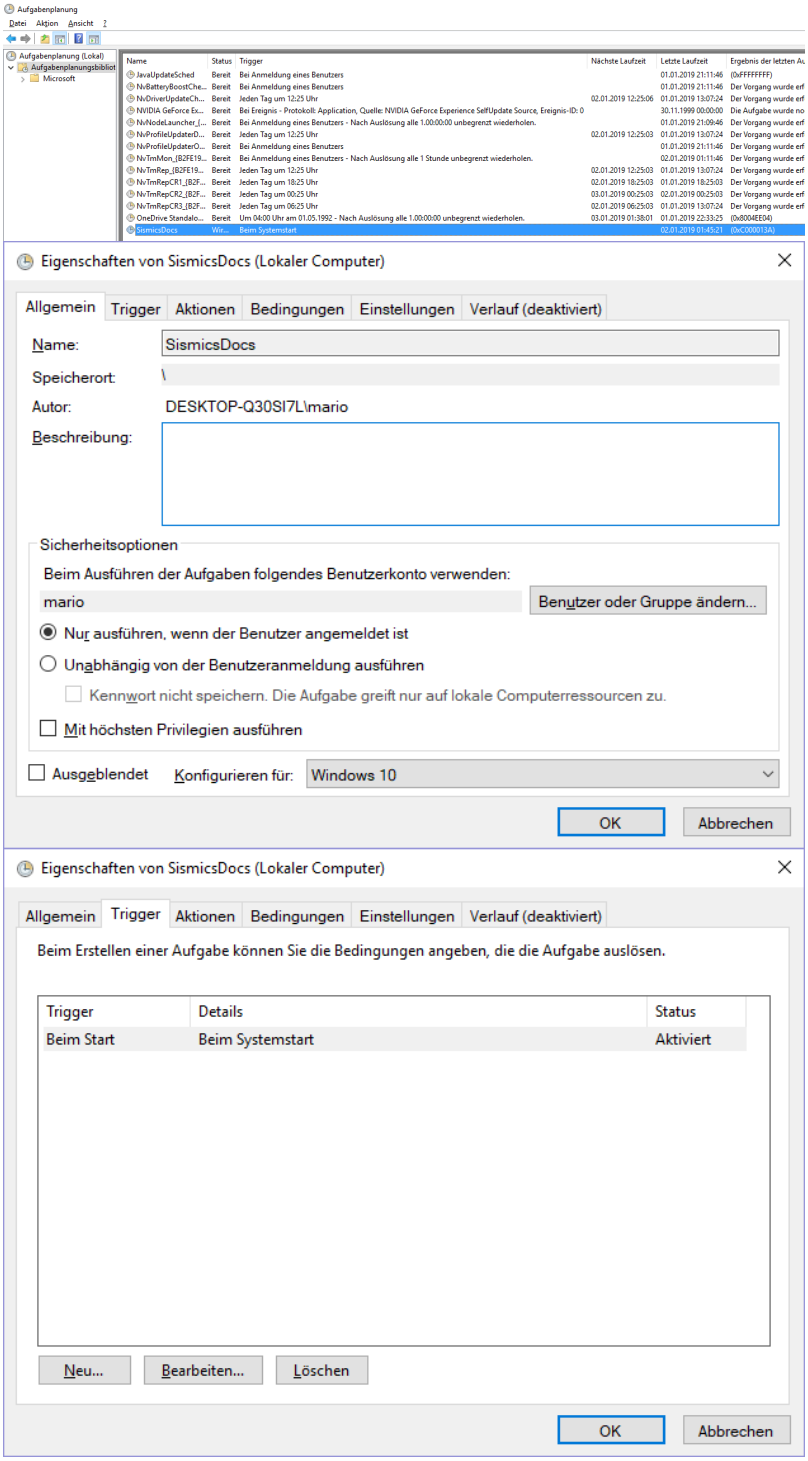
Install as Windows Service

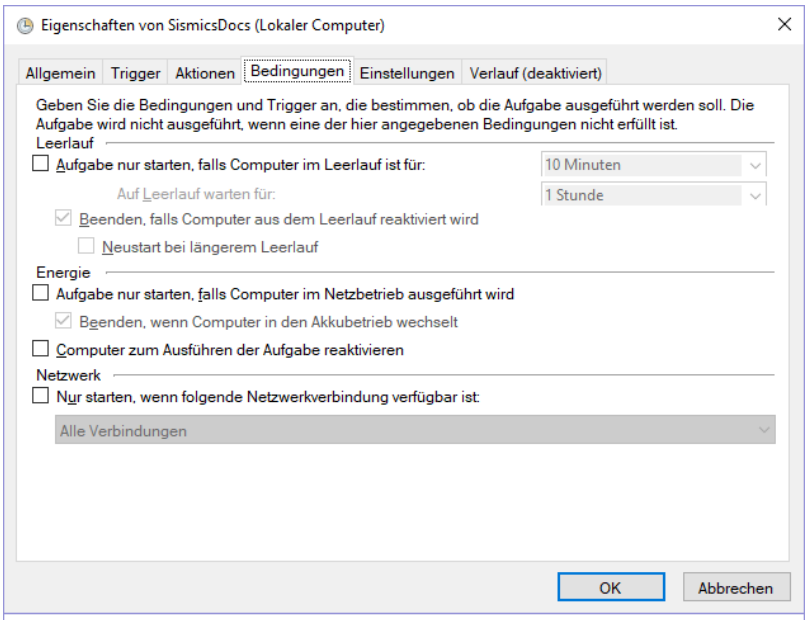
Create file `C:\Teedy\teedy-service.ps1`

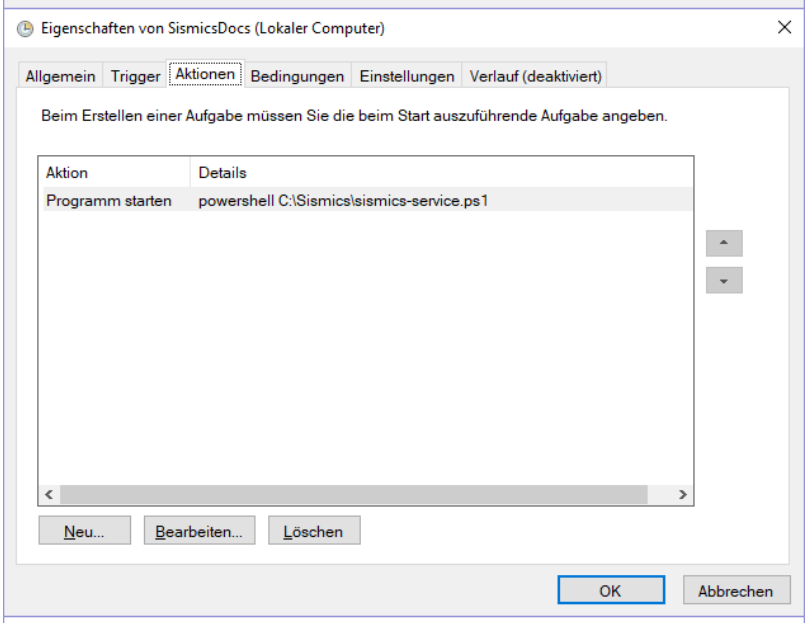
```
Start-Process -WindowStyle hidden -FilePath C:\Teedy\docs-importer-win.exe -ArgumentList "-d"
```

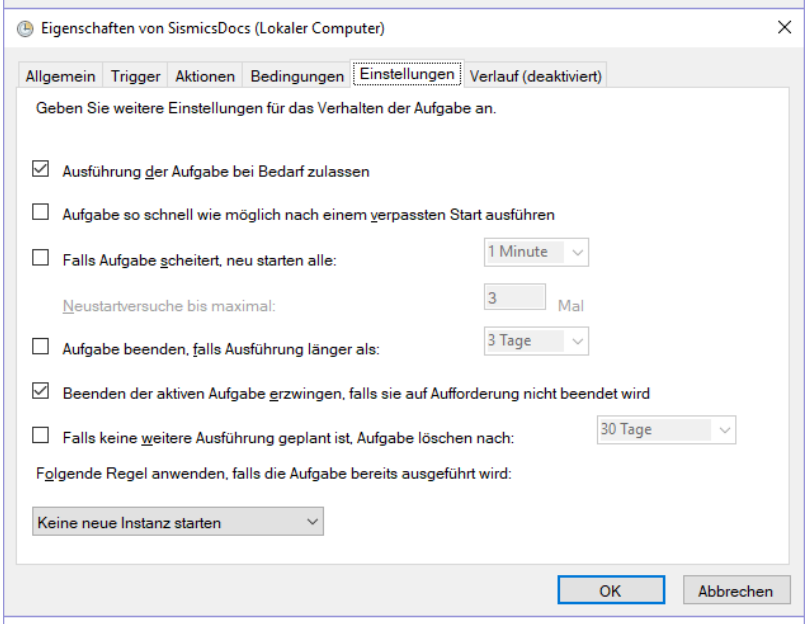
Create a new task in task scheduler

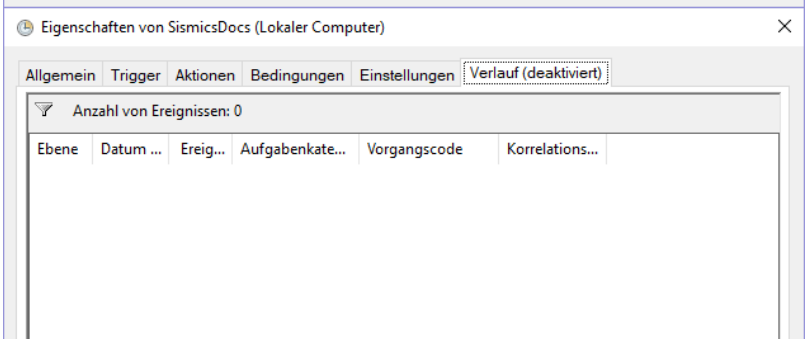
> Sorry for german screenshots. And please replace "SismicsDocs" with "Teedy" everywhere.



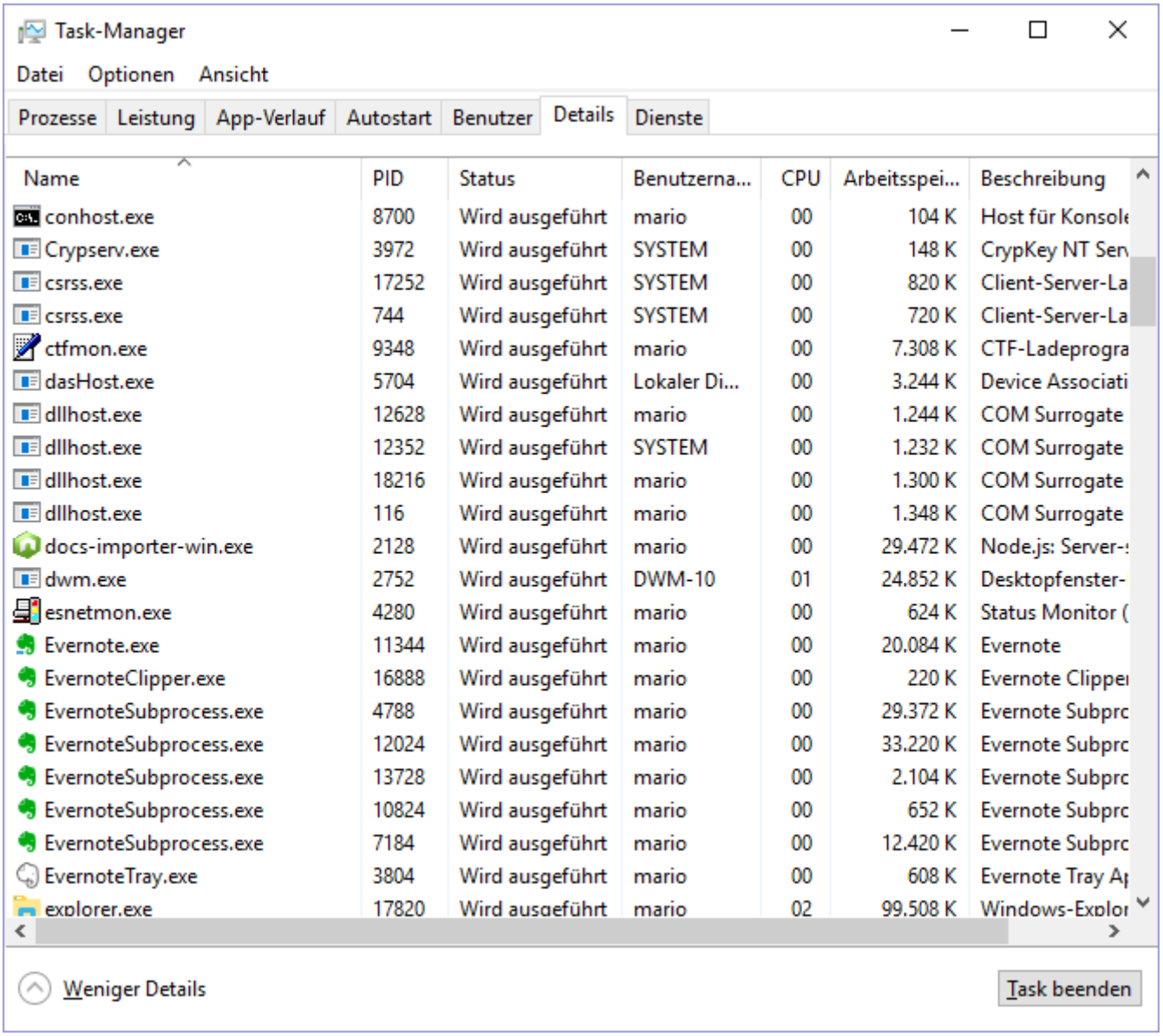

Eigenschaften von SismicsDocs (Lokaler Computer)
Allgemein
Trigger
Aktionen
Bedingungen
Einstellungen
Verlauf (deaktiviert)
Geben Sie die Bedingungen und Trigger an, die bestimmen, ob die Aufgabe ausgeführt werden soll. Die Aufgabe wird nicht ausgeführt, wenn eine der hier angegebenen Bedingungen nicht erfüllt ist.
Leerlauf
Aufgabe nur starten, falls Computer im Leerlauf ist für:
10 Minuten
Auf Leerlauf warten für:
1 Stunde
Beenden, falls Computer aus dem Leerlauf reaktiviert wird
Neustart bei längerem Leerlauf
Energie
Aufgabe nur starten, falls Computer im Netzbetrieb ausgeführt wird
Beenden, wenn Computer in den Akkubetrieb wechselt
Computer zum Ausführen der Aufgabe reaktivieren
Netzwerk
Nur starten, wenn folgende Netzwerkverbindung verfügbar ist:
Alle Verbindungen
OK
Abbrechen


Eigenschaften von SismicsDocs (Lokaler Computer)
Allgemein
Trigger
Aktionen
Bedingungen
Einstellungen
Verlauf (deaktiviert)
Beim Erstellen einer Aufgabe müssen Sie die beim Start auszuführende Aufgabe angeben.
Aktion
Details
Programm starten
powershell C:\Sismics\sismics-service.ps1
Neu...
Bearbeiten...
Löschen
OK
Abbrechen

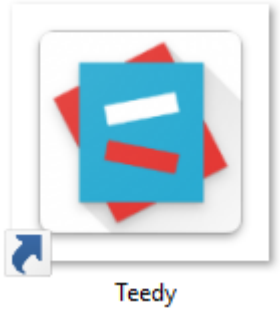

Eigenschaften von SismicsDocs (Lokaler Computer)
Allgemein
Trigger
Aktionen
Bedingungen
Einstellungen
Verlauf (deaktiviert)
Geben Sie weitere Einstellungen für das Verhalten der Aufgabe an.
Ausführung der Aufgabe bei Bedarf zulassen
Aufgabe so schnell wie möglich nach einem verpassten Start ausführen
Falls Aufgabe scheitert, neu starten alle:
1 Minute
Neustartversuche bis maximal:
3
Mal
Aufgabe beenden, falls Ausführung länger als:
3 Tage
Beenden der aktiven Aufgabe erzwingen, falls sie auf Aufforderung nicht beendet wird
Falls keine weitere Ausführung geplant ist, Aufgabe löschen nach:
30 Tage
Folgende Regel anwenden, falls die Aufgabe bereits ausgeführt wird:
Keine neue Instanz starten
OK
Abbrechen


Eigenschaften von SismicsDocs (Lokaler Computer)
Allgemein
Trigger
Aktionen
Bedingungen
Einstellungen
Verlauf (deaktiviert)
Anzahl von Ereignissen: 0
Ebene
Datum ...
Ereig...
Aufgabenkate...
Vorgangscode
Korrelations...

Check if service is running. Look for `docs-importer-win.exe`



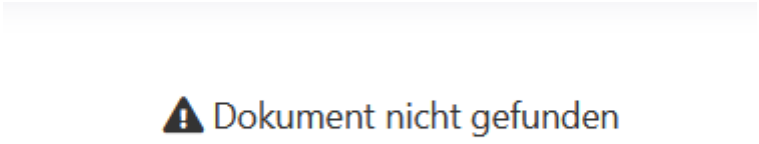
Create a new Desktop Shortcut for your share directory



Manually fix broken document relations in database

Find documents which have relations to other documents which already were deleted

Sometimes documents link to other documents but the links are invalid because the linked document is not available anymore. We can manually reset those links only because there is no working mechanism yet.



Get all relations with their id's

```
SELECT
    R.rel_id_c,
    F.doc_title_c "From",
    T.doc_title_c "To"
FROM
    t_relation AS R
JOIN t_document AS T ON R.rel_iddocfrom_c = T.doc_id_c
JOIN t_document AS F ON R.rel_iddocto_c = F.doc_id_c
WHERE
    R.rel_deletedate_d IS NULL AND
    T.doc_deletedate_d IS NOT NULL AND
    F.doc_deletedate_d IS NULL

UNION

SELECT
    R.rel_id_c,
    T.doc_title_c "From",
    F.doc_title_c "To"
FROM
    t_relation AS R
```

```
JOIN t_document AS T ON R.rel_iddocfrom_c = T.doc_id_c
JOIN t_document AS F ON R.rel_iddocto_c = F.doc_id_c
WHERE
    R.rel_deletedate_d IS NULL AND
    T.doc_deletedate_d IS NULL AND
    F.doc_deletedate_d IS NOT NULL

ORDER BY "From"
;
```

Now we just set the delete flag of the relation to a date not NULL so it will unshow in Teedy visually. That will remove invalid links.

```
update t_relation SET rel_deletedate_d = NOW() WHERE rel_id_c IN ('your relation id 1', 'your relation id 2', .. , 'your relation id n');
```

Optical Character Recognition (OCR) and Scanning

Handling

OCR data is stored in Teedy database table `t_file` which containts the string column `fil_content_c`. In H2 the data is stored als plaintext string. In PostgreSQL the column is filled as datatype `::text`. A normal select returns number. The unecrypted OCR text data can be accessed from the large object by using some SQL statement like

```
select
fil_name_c,
convert_from(loread(lo_open(fil_content_c::int, 131072), 999999999), 'UTF8')
from t_file WHERE fil_deletedate_d IS NULL AND fil_content_c IS NOT NULL limit 1;
```

Teedy uses a built in process runner to start the binary `tesseract` with a language parameter. This works if "`tesseract`" is contained in `$PATH` (Linux) or `%PATH%` (Windows) environment variable.

Fixing faulty fil_content_c data the easy way

Some quick fix for issue described in https://github.com/sismics/docs/issues/451

```
SELECT fil_content_c FROM t_file
WHERE  LENGTH(fil_content_c) > 6
ORDER BY fil_createdate_d DESC;

UPDATE t_file SET fil_content_c = NULL
WHERE  LENGTH(fil_content_c) > 6;
```

Converting LOB data to plain text (was required at some point from updating Teedy 1.8 to Teedy 1.9)

```
/*
Show items which start with useless linefeeds. We need to correct those because otherwise we
cannot continue with following statements (casting "fil_content_c::int" will fail and other
issues)
Result may be empty
```

```
*/
SELECT
    fil_id_c,
    fil_name_c,
    fil_content_c
FROM t_file
WHERE
    fil_content_c LIKE E'%\n'
;

/*Trim beginning linefeeds (only) away*/
UPDATE t_file SET fil_content_c = TRIM(e'\n' FROM fil_content_c)
WHERE
    fil_content_c LIKE E'%\n'
;

/*
Show faulty data which would return "invalid byte sequence for encoding "UTF8": 0x00" or similar.
First we build some function to check for valid UTF8 bytea because sometimes we have faulty stuff inside DB
Result may be empty
*/
CREATE FUNCTION is_valid_utf8(bytea) RETURNS boolean
   LANGUAGE plpgsql AS
$$BEGIN
   PERFORM convert_from($1, 'UTF8');
   RETURN TRUE;
EXCEPTION
   WHEN character_not_in_repertoire THEN
      RAISE WARNING '%', SQLERRM;
      RETURN FALSE;
END;$$;
SELECT
    fil_id_c,
    fil_name_c,
    loread(lo_open(fil_content_c::int, CAST( x'20000' AS integer)), 999999999) AS BYTE_DATA,
    LENGTH(loread(lo_open(fil_content_c::int, CAST(x'20000' AS integer)), 999999999)) AS LEN
FROM t_file
```

```
WHERE
    fil_content_c IS NOT NULL AND
    fil_content_c != '' AND
    LENGTH(fil_content_c) <= 6 AND
    is_valid_utf8(fil_content_c::bytea) IS FALSE
;

/*We set NULL to all items with faulty UTF-8 encoding (if there were some from previous
statement)*/
UPDATE t_file SET fil_content_c = NULL
WHERE
    fil_content_c IS NOT NULL AND
    fil_content_c != '' AND
    LENGTH(fil_content_c) <= 6 AND
    is_valid_utf8(fil_content_c::bytea) IS FALSE
;

/*
Select OCR content which is in LOB format (Large Object) and valid UTF-8
*/
SELECT
    fil_id_c,
    fil_name_c,
    fil_content_c,
    fil_content_c::bytea, /*shows "invisible" data which does not trigger NULL or ''*/
    loread(lo_open(fil_content_c::int, CAST( x'20000' AS integer)), 999999999) AS BYTE_DATA,
     /*we use the encoding we used to create the database. See setup instructions. Usually
this is "UNICODE" or "UTF8"*/
    LENGTH(loread(lo_open(fil_content_c::int, CAST(x'20000' AS integer)), 999999999)) AS LEN,
    convert_from(loread(lo_open(fil_content_c::int, CAST(x'20000' AS integer)), 999999999),
'UNICODE') as "fil_content_c"
FROM t_file
WHERE
    fil_content_c IS NOT NULL AND
    fil_content_c != '' AND
    LENGTH(fil_content_c) <= 6 AND
    is_valid_utf8(fil_content_c::bytea) IS TRUE
ORDER BY LEN ASC
;
```

```
/*Convert LOB data into plain text. First we do it for a custom selected file with fil_id_c*/
UPDATE t_file SET fil_content_c = convert_from(loread(lo_open(fil_content_c::int, CAST(
x'20000' AS integer)), 999999999), 'UNICODE')::TEXT
WHERE
    fil_id_c = '13411bb0-12fd-4e25-b483-2e2d18b344ed'
;

/*Check the conversion value*/
SELECT
    fil_id_c,
    fil_name_c,
    fil_content_c
FROM t_file
WHERE
    fil_id_c = '13411bb0-12fd-4e25-b483-2e2d18b344ed'
;

/*
Now we do mass processing for LOB to plain text
DO NOT CONTINUE WITH OTHER STATEMENTS IF THIS ONE FAILS AND CHECK THE UPPER ONES AGAIN
*/
UPDATE t_file SET fil_content_c = convert_from(loread(lo_open(fil_content_c::int, CAST(
x'20000' AS integer)), 999999999), 'UNICODE')::TEXT
WHERE
    fil_content_c IS NOT NULL AND
    fil_content_c != '' AND
    LENGTH(fil_content_c) <= 6 AND
    is_valid_utf8(fil_content_c::bytea) IS TRUE
;

/*We fix again useless linefeeds by trimming*/
UPDATE t_file SET fil_content_c = TRIM(e'\n' FROM fil_content_c)
WHERE
    fil_content_c LIKE E'%\n'
;

/*
Now that we converted all the LOB stuff we do mass processing for remaining stuff with length
```

```
lesser than 6 chars because those OCR values are just crap
WARNING: DO NOT RUN THIS BEFORE CONVERTING BECAUSE YOU WILL OVERWRITE. IF YOU DID YOU WILL
NEED TO REPROCESS ALL DOCUMENTS!
*/
UPDATE t_file SET fil_content_c = NULL
WHERE
    fil_content_c IS NOT NULL AND
    fil_content_c != '' AND
    LENGTH(fil_content_c) <= 6
;

/*Finally we check again the values visually*/
SELECT
    fil_id_c,
    fil_name_c,
    fil_content_c
FROM t_file

/*Finally re-run the indexing from background UI web interface or API to have a good search
index again*/
```

Tesseract OCR command line binary

The installation of tesseract is simple. Note that for different operating system versions there are different tesseract versions. All tesseract versions work different in their speed and quality. We figured out that tesseract 3 on Ubuntu 16 works much faster than tesseract 4 on Ubuntu 18.

https://github.com/tesseract-ocr/tesseract/wiki

Installation

For Linux users:

```
#install regular version
sudo apt install tesseract-ocr tesseract-ocr-deu #will install the most recent version
belonging to your OS. So older system you might get older tesseract

#install devel version. See https://launchpad.net/~alex-p/+archive/ubuntu/tesseract-ocr-devel
sudo add-apt-repository ppa:alex-p/tesseract-ocr-devel sudo apt-get update
```

```
sudo apt install tesseract-ocr tesseract-ocr-deu #add your desired languages here
```

For Windows users:

https://github.com/tesseract-ocr/tesseract/wiki/4.0-with-LSTM#4x-for-windows

Critical optimization

https://github.com/tesseract-ocr/tesseract/issues/2611

Some users said that disabling multiprocessing in tesseract fixes speed problems.

Therefore some environment flag should be set using export. See also Environment Configuration

```
export OMP_THREAD_LIMIT=1
```

Scanner Apps for Smartphones

There are a LOT of scanner apps in PlayStore. Most of them have nearly same naming. The following list is only a minimalistic overview of stuff around the web. Mainly we are looking for open source applications.

- Genius Scan
- CamScanner
- Notebloc
- OpenNoteScanner
- SwiftScan

Wishes

- automatic upload to or sending by mail
- problem: what if you use multiple instances of DMS? Then you will need multiple upload locations. All known app do not deal with that feature. With app cloning the scanner app could be multiplied so each Scanner app instance has its own configuration. Then the scanner app cand send to the correct inbox per DMS instance

Searching and Tags

Tags

- Tags can be nested. For example, the "Insurance" tag can be created and, for example, the "Signal Iduna" and "Ammerländer" tags below the tag. These are child elements. If you search for "Ammerländer", you will only find documents that are tagged with Ammerländer. If you search for "insurance", you will find documents that are tagged with "insurance", "Ammerländer" or "Signal Iduna" at the same time.
- **Unfortunately, tags can be created twice! Attention!**

Search operators

Operator	values	Explanation
by:	String	The creator of the document
tag:	String	document with given tag
!tag:	String	document without given tag
before:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	created before date
ubefore:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	edited before date
after:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	created after date
uafter:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	edited after date
at:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	created at date
uat:	date (allowed formats: yyyy or yyyy-MM or yyyy-MM-dd)	edited at date
lang:	"eng", "fra", "ita", "deu", "spa", "por", "pol", "rus", "ukr", "ara", "hin", "chi_sim", "chi_tra", "jpn", "tha", "kor", "nld", "tur", "heb"	language

Operator	values	Explanation
mime:		 > does not work yet! 1. image/jpeg 2. application/zip 3. application/pdf 4. image/png 5. text/csv 6. text/plain 7. application/vnd.openxmlformats-officedocument.presentationml.presentation 8. application/vnd.openxmlformats-officedocument.wordprocessingml.document 9. application/octet-stream
shared:	yes, no	
workflow:	"me", String	
full:	String	Use OCR full-text search (files must have been processed with Tesseract!) - full search is default since Teedy 1.9
simple:	String	Performs simple search instead full search (ignores OCR)
*		Wildcard only possible at the end of the search input string. Not allowed before or in a word
|		Pipe operator. Use this to filter things like "or". Example - green|duck - find docs which have green or duck in title

Operator	values	Explanation
"<string>"		phrases can be put into quotes. This will return a more exact result. For example: • "a green duck" ◦ rreturns docs with the exact title "a green duck" • a green duck ◦ returns docs which contain a, green or duck

The operators ?, NOT, AND, OR are not possible - they do nothing. Lucene Core Dokumentation → Most operators unfortunately don't work in Teedy.

> All other things which cannot be expressed by the given search parameters can be scripted by SQL queries for H2 or PSQL database instead. You will need to have according access to do this.

You can find a lot of useful SQL statement for filtering out your DMS in our Grafana Dashboard → Grafana Monitoring / Statistics

Example scheme for document title for things like invocies

```
<YYYY>\<MM> - <creditor> <type> <document number> [#<index>]
```

Search Filter - Combination from words, tags and other operators

Example: find documents which are tagged by invoice and company and which have "01" and "2018" in their title

```
tag:company tag:invoice 2018 01
```