

Guidelines to run SoLiDaM application

Preparation Step:

1. Register your pod and WebID from <https://solid.openlinksw.com:8444/> (SoLiD server version 4.x.x)
Example: <https://davu.solid.openlinksw.com:8444/profile/card#me>
2. Access the SoLiDaM application (<https://dangvu1986.github.io/>)
 - Log in with your WebID
 - Choose storage Location to the public folderExample: <https://davu.solid.openlinksw.com:8444/public>

List of Tasks:

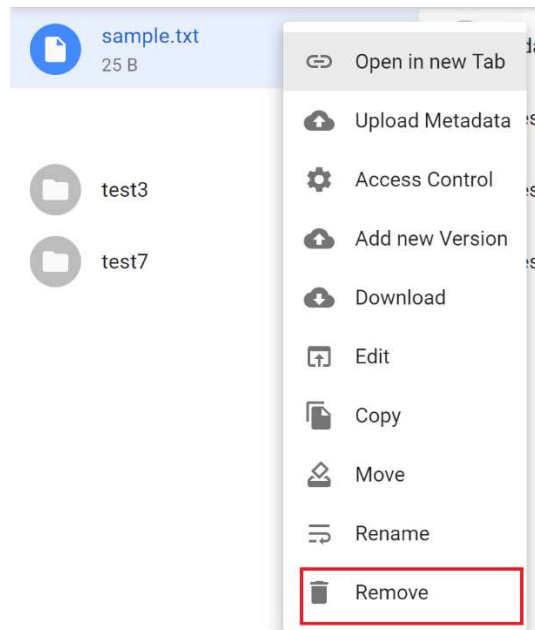
Task 1: Upload and delete your file

Step 1: Click “Three Dot” icon in the top-right menu, choose Upload Research Data



Step 2: Choose any file to upload it to your POD. Does this file show in the file-list?

Step 3: Right-click to this file, choose “Remove”. Does this file disappear in the file-list?



Step 4: Go to “Public” your POD on the SoLiD server to ensure this file is already removed from the server?

For example: <https://davu.solid.openlinksw.com:8444/public>

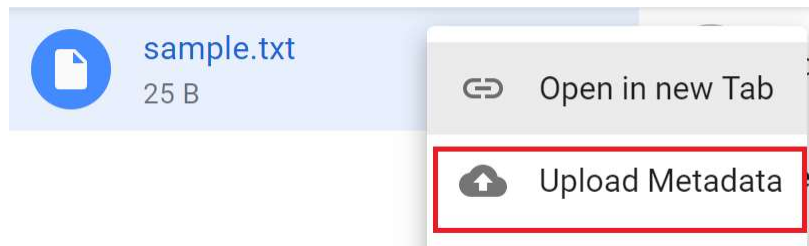
Task 2: Upload and Link Metadata

Step 1: Download data "*sample.txt*" from here: <https://dangvu1986.github.io/sample/sample.txt/>

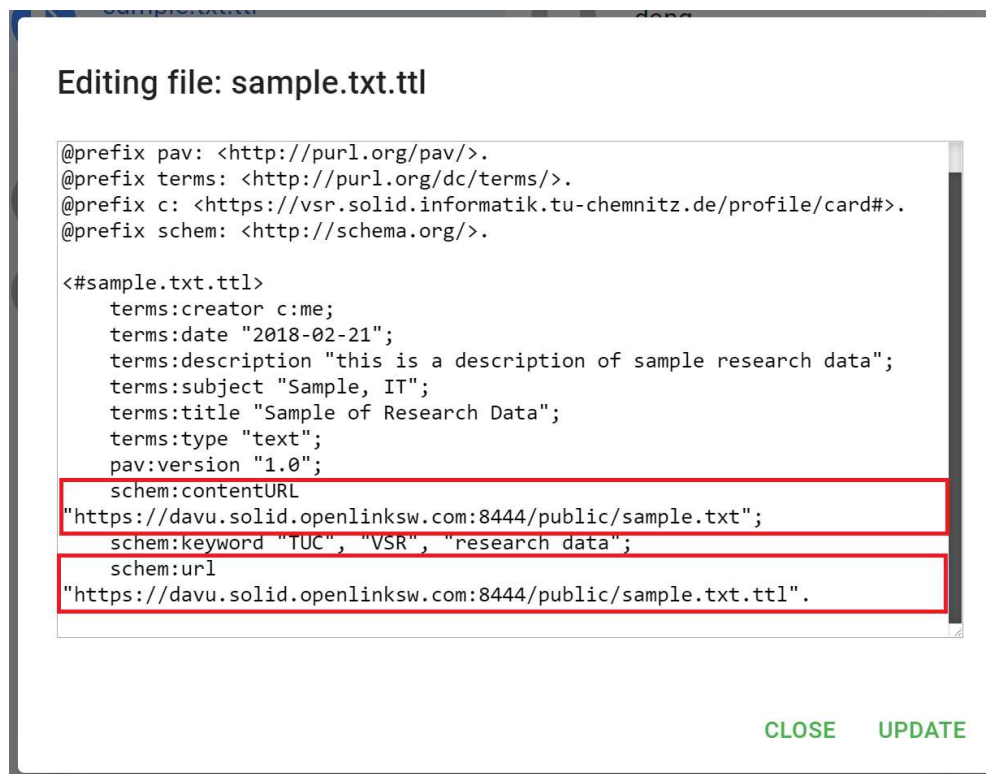
and metadata "*sample.txt.ttl*" from here <https://dangvu1986.github.io/sample/sample.txt.ttl/>

Step 2: Upload sample.txt to your POD

Step 3: Right-click to your sample.txt, choose "Upload Metadata", upload your "*sample.txt.ttl*"







































Step 4: Open the "*sample.txt.ttl*" by double click on the application. Does it's a content change in comparison with the one on your local machine? If yes, are there a field "contentURL" and "url"?



Task 3: Upload different file types and file size

Upload several files with different file extension (.txt, .docx, .xlsx, .csv, .jpg, .png, .wmv, .wma) and different file sizes (Byte, Kbyte, Megabyte.)

* Note: there will be an error of “exceeding quota limit” if you upload large file (25MB is a limit disk space on the public servers)

| SoLiDaM > public > fileSizesAndFormat | | | |
|--|---|--|--|
| | | Search... | |
|  .gitlab-ci.yml 567 B |  .signature.p7s 9.47 kB |  Antlr.3.5.0.2.nupkg 156.22 kB |  asset-manifest.json 967 B |
|  baolixigiare.dll.config 5.43 kB |  bio.flv 0 B |  bioinformatics.gif 17.45 kB |  data.docx 0 B |
|  data.rar 113.47 mB |  data.xlsx 6.19 kB |  ErrorController.cs 394 B |  favicon.ico 3.87 kB |
|  GenerateRefreshToken.csproj 4.23 kB |  GenerateRefreshToken.sln 1.14 kB |  Global.asax 104 B |  Global.asax.cs 505 B |
|  glyphsicons-halfings.eot 20.13 kB |  glyphsicons.ttf 45.4 kB |  Google.Apis.xml 90.7 kB |  index.html 2.53 kB |
|  init.ps1 10.03 kB |  install.ps1 10.14 kB |  logo.png 8.5 kB |  main-qimg.webp 7.14 kB |
|  manage.py 542 B |  PiVAT.svg 218.74 kB |  Pologbb3.jpg 114.4 kB |  README.md 44 B |
|  research-data-image.jpg 142.21 kB |  rtd.rtf 7 B |  sample.wmv 9.72 mB |  sample.zip 1.96 kB |
|  service-worker.js 1.04 kB |  slick.css 1.9 kB |  text_data.txt 138 B |  video1.mp4 11.9 mB |

Task 4: Access Control

Step 1: Current, the sample.txt is only accessed by the owner. Right-click on the file, the access control form is shown similarly to the following Figure

Access Control to <https://davu.solid.openlinksw.com:8444/public/sample.txt>

| Group | Agent | Mode | Action |
|--------------------------|---|---|--------|
| <input type="checkbox"/> | https://davu.solid.openlinksw.com:8444/profile/card#me | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write <input checked="" type="checkbox"/> Append <input checked="" type="checkbox"/> Control | |
| <input type="checkbox"/> | Input agent webID | <input type="checkbox"/> Read <input type="checkbox"/> Write <input type="checkbox"/> Append <input type="checkbox"/> Control | |

CANCEL SAVE

Open another browser (to ensure that you are anonymous/public user), can you access the content of the file? Or do you get an accessing error message?

Step 2: Now, we set the access control to everyone (public mode) by add group <http://xmlns.com/foaf/0.1/Agent> with the Read permission. The form will be similar to the following Figure. Try to access again, do you get the content of this file?

Access Control to <https://davu.solid.openlinksw.com:8444/public/sample.txt>

| Group | Agent | Mode | Action |
|-------------------------------------|---|---|--------|
| <input type="checkbox"/> | https://davu.solid.openlinksw.com:8444/profile/card#me | <input checked="" type="checkbox"/> Read <input checked="" type="checkbox"/> Write <input checked="" type="checkbox"/> Append <input checked="" type="checkbox"/> Control | |
| <input checked="" type="checkbox"/> | http://xmlns.com/foaf/0.1/Agent | <input checked="" type="checkbox"/> Read <input type="checkbox"/> Write <input type="checkbox"/> Append <input type="checkbox"/> Control | |
| <input type="checkbox"/> | Input agent webID | <input type="checkbox"/> Read <input type="checkbox"/> Write <input type="checkbox"/> Append <input type="checkbox"/> Control | |

CANCEL SAVE

Task 5: Data versioning control

Step 1: Download version 2 of the "sample.txt" from:

<https://dangvu1986.github.io/sample/v2/sample.txt/>

Step 2: Go to the SoLiDaM app, right-click to the "sample.txt" file, choose "Add new version"

Step 3: fill-up the form with the new version, choose the file on your local computer and upload it to the server.

Add New Version

Current Version
1.0

New version
2.0

sample.txt

 sample.txt (25 B)

Step 4: Do you see the "Version" is created, and the subfolder "1.0"? Is there a file named "sample.txt.old" locates in this subfolder? Does the new file "sample.txt" upload to the public folder? Does the content of the metadata "sample.txt.ttl" change (version, hasPrevVersion)?



Editing file: sample.txt.ttl

```
terms:date "2018-02-21";
terms:description "this is a description of sample research data";
terms:subject "Sample, IT";
terms:title "Sample of Research Data";
terms:type "text";
pav:hasEarlierVersion <version/1.0/sample.txt.old>;
pav:version "2.0";
schem:contentURL
"https://davu.solid.openlinksw.com:8444/public/sample.txt";
schem:keyword "TUC", "VSR", "research data";
schem:url
"https://davu.solid.openlinksw.com:8444/public/sample.txt.ttl".

<version/1.0/sample.txt.old>
  pav:hasVersion "1.0";
  schem:url
"https://davu.solid.openlinksw.com:8444/public/version/1.0/sample.txt.old"
```

Task 6: Data exposing

Step 1: Right-click to the “sample.txt.ttl”, choose “Expose MetaData”. Fill any keywords you want to the textbox, and click “Expose”.

Expose Metadata

https://davu.solid.openlinksw.com:8444/public/sample.txt.ttl

Keyword

TUC, Sample, Test

Discipline

Sample, IT

CLOSE

EXPOSE

Step 2: Go to <https://davu.solid.community/public/registry/index.ttl>

Do you see the link of the “sample.txt.ttl” is stored there with your keywords, discipline?

▼index.ttl

| | | |
|--|------------|--|
| sample.txt.ttl | subject | Sample, IT |
| | type | Metadata |
| | keyword | TUC |
| | url | sample.txt.ttl |
| research data.txt.ttl | identifier | research data.txt.ttl |
| | subject | Biology, Statistic, Bioinformatics |
| | type | Metadata |
| | keyword | TUC, VSR, bioinformatic, research data |
| research data2.txt.ttl | identifier | research data2.txt.ttl |
| | subject | Biology, Information Engineering, Bioinformatics |
| | type | Metadata |
| | keyword | TUC, VSR, bioinformatic, research data 2 |