

NeIC2017

11th international dCache worksop

dCache book 3.0

Umeå, 30.05.2017

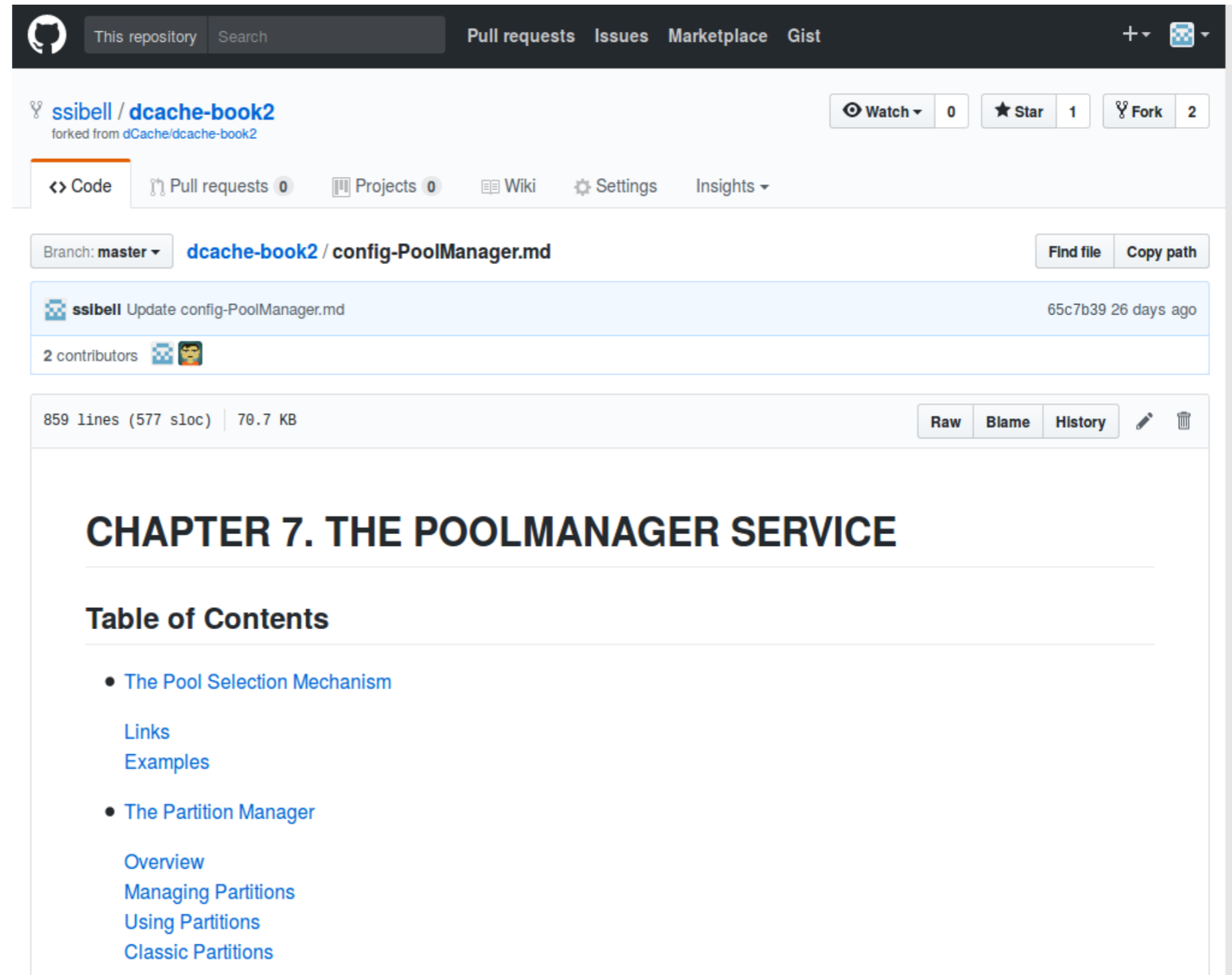


Overview

- Why I´m giving this talk?
- Why we moved to the new style?
- Used tools?
- Layout comparison of 2.16 with 3.0
- Where to find?
- Feedback

Used tools, what do you need?:

- Webbrowser
- Github
- Markdown



The screenshot shows a GitHub repository page for 'ssibell / dcache-book2', which is a fork of 'dCache/dcache-book2'. The page displays the file 'config-PoolManager.md' on the 'master' branch. A commit by 'ssibell' is shown, updating the file. The file size is 70.7 KB and it contains 859 lines (577 sloc). The page includes a 'Table of Contents' with the following items:

- [The Pool Selection Mechanism](#)
 - [Links](#)
 - [Examples](#)
- [The Partition Manager](#)
 - [Overview](#)
 - [Managing Partitions](#)
 - [Using Partitions](#)
 - [Classic Partitions](#)

dCache book 2.16 vs 3.0:

The billing log files
Chapter 15. The billing Service

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The dCache Book > Configuration of dCache > The billing Service > The billing log files

THE BILLING LOG FILES

If you installed dCache following the instructions in the Chapter [Installing dCache](#) you enabled the billing in the domain where the `httpd` service is running (see the extract of the layout file).

```
...
[httpDomain]
[httpDomain/billing]
[httpDomain/httpd]
...
```

Use the property `billing.text.dir` to set the location of the log files and the property `billing.enable.text` to control whether the plain-text log files are generated.

By default the log files are located in the directory `/var/lib/dcache/billing`. Under this directory the log files are organized in a tree data structure based on date (YYYY/MM). A separate file is generated for errors. The log file and the error file are tagged with the date.

Example:

```
log file: /var/lib/dcache/billing/2012/09/billing-2012.09.25
error file: /var/lib/dcache/billing/2012/09/billing-error-2012.09.25
```

The log files may contain information about the time, the pool, the pnfsID and size of the transferred file, the storage class, the actual number of bytes transferred, the number of milliseconds the transfer took, the protocol, the subject (identity of the user given as a collection of principals), the data transfer listen port, the return status and a possible error message. The logged information depends on the protocol.

A log entry for a write operation has the default format:

```
<MM.dd> <HH:mm:ss> [pool:<pool-name>:transfer]
[<pnfsId>,<filesize>] [<path>]
<StoreName>:<StorageGroup>@<type-of-storage-system>
<transferred-bytes> <connectionTime> <true/false> {<protocol>}
<initiator> {<return-status>:"<error-message>"}
```

Example:

A typical logging entry would look like this for writing. In the log file each entry is in one line. For readability we split it into separate lines in this documentation.:

```
12.10 14:19:42 [pool:pool2@poolDomain-1:transfer]
[0000062774D07847475BA78AC99C60F2C2FC,10475] [Unknown]
<Unknown>:<Unknown>@osm 10475 40 true {GFtp-1.0 131.169.72.103 37850}
[door:WebDAV-example.org@webdavDomain:1355145582248-1355145582485] {0:""}
```

The formatting of the log messages can be customized by redefining the `<billing.format.someInfoMessage>` properties in the layout configuration, where `<billing.format.someInfoMessage>` can be replaced by

- `billing.text.format.mover-info-message`
- `billing.text.format.remove-file-info-message`
- `billing.text.format.door-request-info-message`
- `billing.text.format.storage-info-message`

THE BILLING LOG FILES

If you installed DCACHE following the instructions in the Chapter [Installing dCache](#) you enabled the BILLING in the domain where the HTTPD service is running (see the extract of the layout file).

```
...
[httpDomain]
[httpDomain/billing]
[httpDomain/httpd]
...
```

Use the property `billing.text.dir` to set the location of the log files and the property `billing.enable.text` to control whether the plain-text log files are generated.

By default the log files are located in the directory `/var/lib/dcache/billing`. Under this directory the log files are organized in a tree data structure based on date (YYYY/MM). A separate file is generated for errors. The log file and the error file are tagged with the date.

Example:

```
log file: /var/lib/dcache/billing/2012/09/billing-2012.09.25
error file: /var/lib/dcache/billing/2012/09/billing-error-2012.09.25
```

The log files may contain information about the time, the pool, the pnfsID and size of the transferred file, the storage class, the actual number of bytes transferred, the number of milliseconds the transfer took, the protocol, the subject (identity of the user given as a collection of principals), the data transfer listen port, the return status and a possible error message. The logged information depends on the protocol.

A log entry for a write operation has the default format:

```
<MM.dd> <HH:mm:ss> [pool:<pool-name>:transfer]
[<pnfsId>,<filesize>] [<path>]
<StoreName>:<StorageGroup>@<type-of-storage-system>
<transferred-bytes> <connectionTime> <true/false> {<protocol>}
<initiator> {<return-status>:"<error-message>"}
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Example:

A typical logging entry would look like this for writing. In the log file each entry is in one line. For readability we split it into separate lines in this documentation.:

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[door:WebDAV-example.org@webdavDomain:1355145582248-1355145582485] {0:""}
```

docbook -> Markdown

Advantages:

- No special knowledge needed (easy to use, low entry level)
- github has Markdown editor
- Directly changes on github
- Pull request from user

Disadvantages:

- Lost some formatting types
- Less fancy

Where to find the dCache book?

- <https://www.dcache.org/>
- <https://github.com/dCache/dcache-book2>

How can you help us?

- Read the book and give feedback to support@dcache.org
- Create a github issue
- Change the content direct in github + pull request

Thank you for listening!