

AuthZ - No AuthZ Fedora 4 Comparison Performance Testing

Platform Profile:

- [Test - Platform Profile: saez workstation](#)

Repository Profile:

- Without Authorization Enabled: [Test - Repository Profile: Basic](#)
- With Authorization Enabled: [Test - Repository Profile: Basic with authorization](#)
- Fcrepo4 Git commit: <https://github.com/sprater/fcrepo4/commit/fa517f25580372784cbd015c13a69e941a3955d1>

Setup Profile:

- [Test - Setup Profile: 1000 x 1MB](#)

Benchtool

The benchmarking tool is available on github: <https://github.com/fcrepo4-labs/benchtool>

```
git clone git@github.com:fcrepo4-labs/benchtool.git
cd benchtool
mvn install
```

Benchtool is running on a different host.

Ingest Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Ingest](#)

Benchtool command (one thread):

```
no authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a ingest
```

```
with authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a ingest -u adminuser -p turnip2
```

Threads	Containers	Binary Size	AuthZ Time (ms)	No AuthZ Time (ms)
1	1000	1MB	535,091 ms	510,248 ms
2	1000	1MB	464,909 ms	408,316 ms
4	1000	1MB	402,695 ms	387,168 ms
8	1000	1MB	393,567 ms	384,786 ms

Read Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Read](#)

Benchtool command (one thread):

```
no authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a read
```

```
with authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a read -u adminuser -p turnip2
```

Threads	Containers	Binary Size	AuthZ Time (ms)	No AuthZ Time (ms)
1	1000	1MB	8504 ms	6481 ms
2	1000	1MB	4343 ms	3299 ms
4	1000	1MB	4409 ms	3463 ms
8	1000	1MB	3910 ms	3472 ms

Update Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Update](#)

Benchtool command (one thread):

no authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a update

with authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f [http://saez:8080](#) -s 1048576 -n 1000 -t 1 -a update -u adminuser -p turnip2

Threads	Containers	Binary Size	AuthZ Time (ms)	No AuthZ Time (ms)
1	1000	1MB	200,431 ms	174,545 ms
2	1000	1MB	137,125 ms	124,240 ms
4	1000	1MB	141,977 ms	128,048 ms
8	1000	1MB	135,004 ms	149,371 ms

Delete Test Matrix

Workflow profile: [Test - Workflow Profile: Benchtool Delete](#)

Benchtool command (one thread):

no authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f http://saez:8080 -s 1048576 -n 1000 -t 1 -a delete

with authz: java -jar target/bench-tool-0.0.1-SNAPSHOT-jar-with-dependencies.jar -f [http://saez:8080](#) -s 1048576 -n 1000 -t 1 -a delete -u adminuser -p turnip2

Threads	Containers	Binary Size	AuthZ Time (ms)	No AuthZ Time (ms)
1	1000	1MB	126,261 ms	112,387 ms
2	1000	1MB	96,281 ms	92,130 ms
4	1000	1MB	100,309 ms	92,542 ms
8	1000	1MB	101,414 ms	92,472 ms