

# Performance and Scalability

This page is intended to be moved into the [FAQ documentation](#) once it has been more completely populated.

The use cases and expectations that fall under the category of Fedora "performance and scalability" are diverse and evolving. It is therefore important to establish and maintain a set of reproducible benchmarks that will be run over various configurations of Fedora releases.

## Team

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## Project Plans

1. [Performance and Scalability Test Plans](#) (Update to Fcrepo 4.7.x and later version)

## Benchmark Categories

### Resource Scale

1. Large datastreams (i.e. binaries, non-RDFSources)
2. Multi-TB datasets
3. Large number of objects (i.e. containers, RDFSources)
4. Many members

### Performance Characteristics

1. Ingest rates
2. RDFSources property update rates

## Prior Results

1. [Performance Testing](#)
2. [Performance Summary](#)
3. [Assessment Plan - Performance](#)
4. [Test 1 Results Summary](#)
5. [Test 2 Results Summary](#)
6. [Test 3 Results Summary](#)
7. [Test 4 Results Summary](#)
8. [Test 5 Results Summary](#)
9. [Many Members Performance Testing](#)

## Project Tools

1. Fcrepo performance analysis: [https://github.com/fcrepo4-labs/fcrepo\\_perf\\_analysis](https://github.com/fcrepo4-labs/fcrepo_perf_analysis)
2. Fedora 4 Ansible: <https://github.com/VTUL/fcrepo4-ansible>
3. Many member testing scripts: <https://github.com/dbernstein/fcrepo-performance-test-scripts>

## Publication

- Towards Use And Reuse Driven Big Data Management. JCDL 2015
- Performance of a CloudBased Digital Library. ICADL 2015
- Evaluating Cost of Cloud Execution in a Data Repository. JCDL 2016

## Presentation

- Open Repositories: [Presentations](#)

## Workshop

- Code4lib 2017 workshop: [Performance and Scale Testing of Fedora](#)
- [Fedora Camp NYC - 28-30 November 2016](#)
- All Fedora workshops: [Events](#)

## Other Tools

1. [JMeter](#)
2. [Grinder](#)
3. <https://blazemeter.com/> - commercial service for running our JMeter tests