

对象存储实验报告

实验一

- **minio**

```
$ wget https://dl.min.io/server/minio/release/linux-amd64/minio
$ chmod +x minio
$ vim ~/.bashrc //配置 minio 路径
$ export MINIO_ROOT_USER=hust && export MINIO_ROOT_PASSWORD=hust_obs &&
minio -C ./ server share
```

API: <http://172.27.193.88:9000> <http://127.0.0.1:9000>

RootUser: hust

RootPass: hust_obs

Console: <http://172.27.193.88:45939> <http://127.0.0.1:45939>

RootUser: hust

RootPass: hust_obs

Command-line: <https://docs.min.io/docs/minio-client-quickstart-guide>

\$ mc alias set myminio <http://172.27.193.88:9000> hust hust_obs

Documentation: <https://docs.min.io>

WARNING: Console endpoint is listening on a dynamic port (45939), please use --console-address ":PORT" to choose a static port.

- **Minio client**

```
$ go install github.com/minio/mc@latest
$ mc alias set myminio http://172.27.193.88:9000 hust hust_obs
```

Added `myminio` successfully.

- **测试操作**

```
$ mc mb myminio/xiawu #创建
$ mc cp script.txt myminio/xiawu #复制
$ mc rm -r --force myminio/xiawu #删除
```

Bucket created successfully `myminio/xiawu`.

script.txt: 219 B / 219 B | 6.49 KiB/s 0s

```
Removing `myminio/xiawu/script.txt`.
```

实验二 性能观测

下载 s3 bench

```
$ go get -u github.com/igneous-systems/s3bench
```

run s3 bench

```
$ vim run-s3bench.sh
```

修改 s3bench 路径为下载的路径

```
$ mc mb myminio/loadgen
```

```
$ sh run-s3-bench.sh
```

指定客户端数量为 8，对象个数为 256

```
Test parameters
endpoint(s):      [http://127.0.0.1:9000]
bucket:           loadgen
objectNamePrefix: loadgen
objectSize:       0.0312 MB
numClients:       8
numSamples:       256
verbose:          %!d(bool=false)

Results Summary for Write Operation(s)
Total Transferred: 8.000 MB
Total Throughput:  19.39 MB/s
Total Duration:    0.413 s
Number of Errors:  0
-----
Write times Max:      0.066 s
Write times 99th %ile: 0.053 s
Write times 90th %ile: 0.020 s
Write times 75th %ile: 0.016 s
Write times 50th %ile: 0.011 s
Write times 25th %ile: 0.007 s
Write times Min:      0.003 s

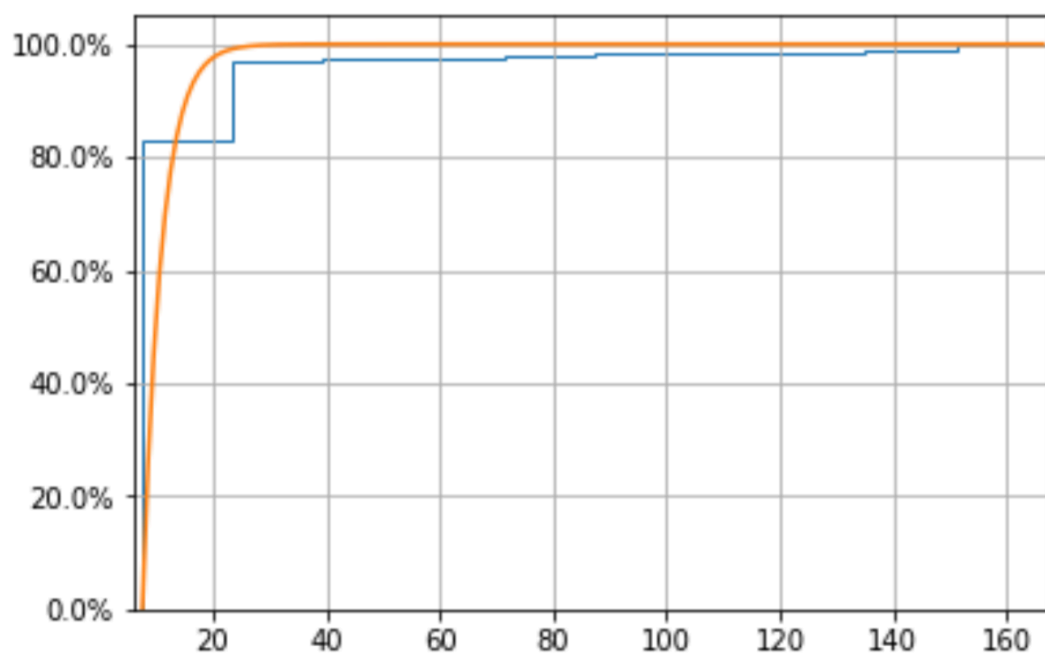
Results Summary for Read Operation(s)
Total Transferred: 8.000 MB
Total Throughput:  33.42 MB/s
Total Duration:    0.239 s
Number of Errors:  0
-----
Read times Max:       0.209 s
Read times 99th %ile: 0.174 s
Read times 90th %ile: 0.002 s
Read times 75th %ile: 0.001 s
Read times 50th %ile: 0.001 s
Read times 25th %ile: 0.001 s
Read times Min:       0.001 s

Cleaning up 256 objects...
Deleting a batch of 256 objects in range {0, 255}... Succeeded
```

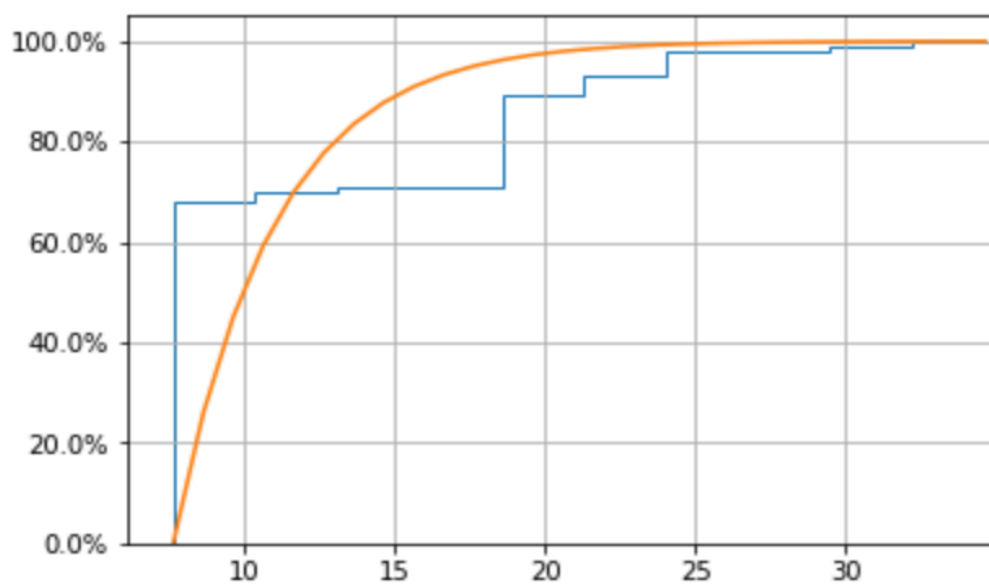
实验三

观测尾延迟现象

```
$ jupyter notebook --allow-root
```



关联请求



对冲请求

