《数据中心技术》课程

实验报告

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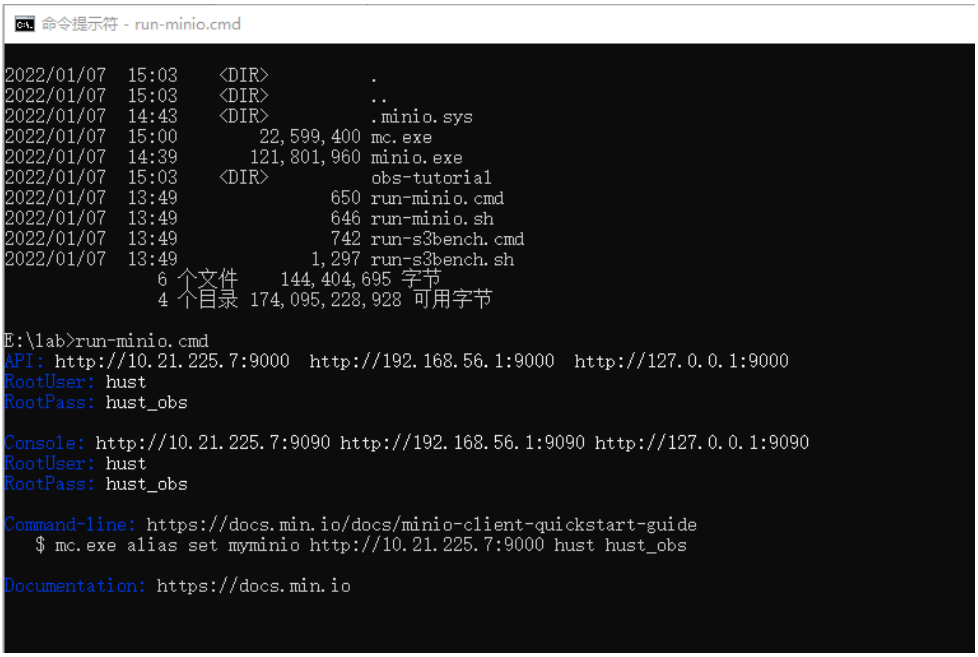
实验一：系统搭建

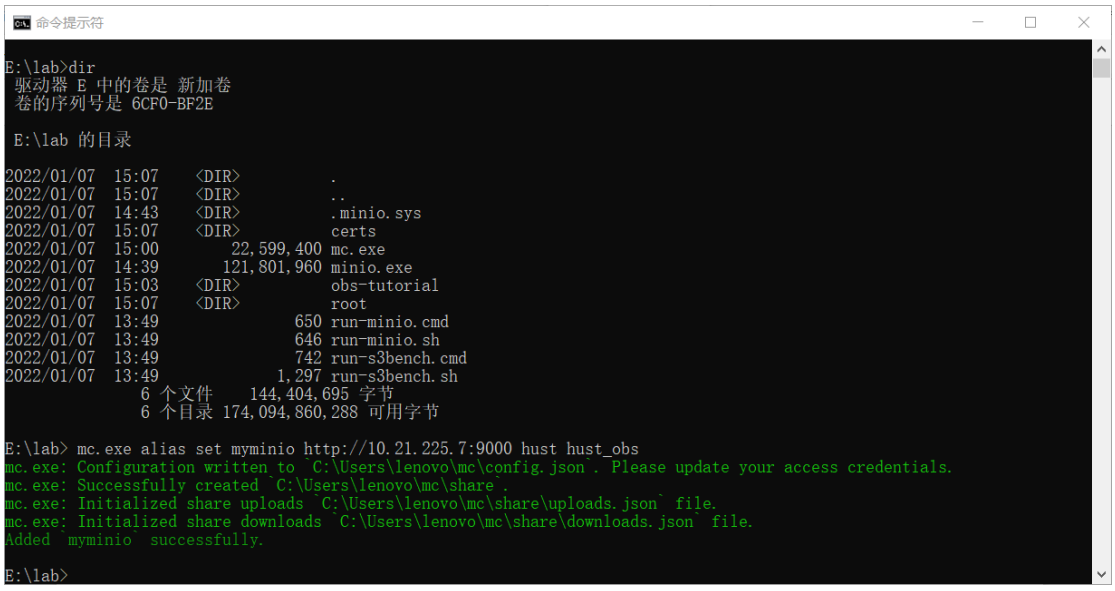
服务端：

从官网下载 windows 版本的 minio。将其与 run-minio.cmd 放置在同一个文件夹。运行 run-minio.Cmd 脚本



客户端：

下载 mc.exe，打开一个 cmd 窗口，输入 mc.exe alias set myminio http://10.21.225.7:9000 hust hust_obs，也即启动服务器端后的页面中所给出的命令。执行成功后截图如下



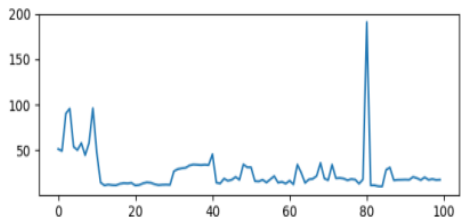
实验二：性能观测

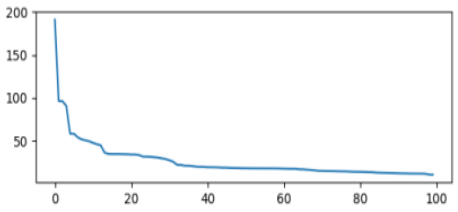
选择 s3 bench 评测工具，在命令行中运行 run-s3bench.cmd

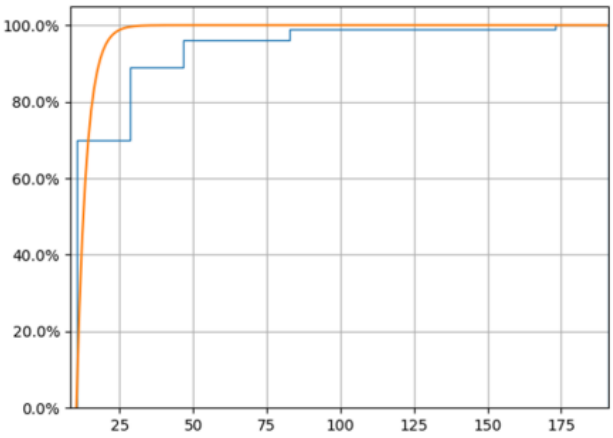
```
Results Summary for Write Operation(s)
Total Transferred: 1.000 MB
Total Throughput:  0.06 MB/s
Total Duration:    16.090 s
Number of Errors:  0
-----------------------------------
Write times Max:       0.641 s
Write times 99th %ile: 0.590 s
Write times 90th %ile: 0.305 s
Write times 75th %ile: 0.274 s
Write times 50th %ile: 0.241 s
Write times 25th %ile: 0.218 s
Write times Min:       0.121 s


Results Summary for Read Operation(s)
Total Transferred: 1.000 MB
Total Throughput:  2.92 MB/s
Total Duration:    0.342 s
Number of Errors:  0
-----------------------------------
Read times Max:       0.020 s
Read times 99th %ile: 0.011 s
Read times 90th %ile: 0.008 s
Read times 75th %ile: 0.006 s
Read times 50th %ile: 0.005 s
Read times 25th %ile: 0.004 s
Read times Min:       0.002 s


Cleaning up 512 objects...
Deleting a batch of 512 objects in range {0, 511}... Succeeded
Successfully deleted 512/512 objects in 1.0458005s
```

得到如下运行结果

实验三：尾延迟







实验总结：

本次实验对于对象存储有了初步的认识，实验中我配置了一些之前并没有使用过的软件，也从实验中学习了一部分以前不了解的内容。总之这门课程让我对存储这一部分有了一点了解，也开拓了一些视野。