Ambry安装和使用

测试Ambry，启动一个Server，文件只有一个Partition，使用/tmp作为mount point

1. **下载源码并编译**

*$ git clone git@github.com:linkedin/ambry.git*

*$ cd ambry*

*$ ./gradlew allJar*

*$ cd target*

*$ mkdir logs*

1. **部署Server，启动命令如下：**

*$ nohup java*

*-Dlog4j.configuration=file:../config/log4j.properties -cp ambry.jar com.github.ambry.server.AmbryMain*

*--serverPropsFilePath ../config/server.properties --hardwareLayoutFilePath ../config/HardwareLayout.json --partitionLayoutFilePath ../config/PartitionLayout.json*

*> logs/server.log &*

命令行中配置了：

1. log4j
2. 集群的配置信息
3. 重定向配置文件

启动进程如下：

*# jps*

*9192 AmbryMain*

*# netstat -anp|grep 9192*

*tcp6 0 0 :::6667 :::\* LISTEN 9192/java*

*tcp6 0 0 127.0.0.1:6667 127.0.0.1:53918 ESTABLISHED 9192/java*

*tcp6 0 0 127.0.0.1:6667 27.0.0.1:54114 ESTABLISHED 9192/java*

1. **部署fronted**

*$ nohup java -Dlog4j.configuration=file:../config/log4j.properties -cp ambry.jar com.github.ambry.frontend.AmbryFrontendMain --serverPropsFilePath ../config/frontend.properties --hardwareLayoutFilePath ../config/HardwareLayout.json --partitionLayoutFilePath ../config/PartitionLayout.json > logs/frontend.log &*

查看进程及端口

*# jps*

*9510 AmbryFrontendMain*

*# netstat -anp|grep 9510*

*tcp6 0 0 :::1174 :::\* LISTEN 9510/java*

*tcp6 0 0 127.0.0.1:53918 127.0.0.1:6667 ESTABLISHED 9510/java*

*tcp6 0 0 127.0.0.1:54114 127.0.0.1:6667 ESTABLISHED 9510/java*

1. **Ambry的使用**

以上步骤已经启动了Ambry，下面进行存储和查询数据

1. POST，使用Curl命令上传文件，在当前目录中demo.gif文件，命令格式如下

*$ curl -i -H "x-ambry-service-id : CUrlUpload" -H "x-ambry-owner-id : `whoami`" -H "x-ambry-content-type : image/gif" -H "x-ambry-um-description : Demonstration Image" http://localhost:1174/ --data-binary @demo.gif*

*//以上是输入*

*HTTP/1.1 201 Created*

*Location: [AmbryID] 文件的唯一Object标识*

*/AAMAAf\_\_AAAAAQAAAAAAAAAAAAAAJDlmMmUyYzcxLWE2OTgtNDczOS04MjYxLWU3Zjg4ZjhiMmViOQ*

*Date: Fri, 20 Apr 2018 09:29:26 GMT*

*Content-Length: 0*

*x-ambry-creation-time: Fri, 20 Apr 2018 09:29:25 GMT*

在命令中提供了：

* *x-ambry-service-id, Service ID*
* *owner ID*
* *Content type*
* *x-ambry-um-description， 描述*

1. 获取Block Info，使用GET

*curl -i http://localhost:1174/ AAMAAf\_\_AAAAAQAAAAAAAAAAAAAAJDlmMmUyYzcxLWE2OTgtNDczOS04MjYxLWU3Zjg4ZjhiMmViOQ /BlobInfo*

输出如下：

*HTTP/1.1 200 OK*

*Date: Fri, 20 Apr 2018 09:42:22 GMT*

*Last-Modified: Fri, 20 Apr 2018 09:29:25 GMT*

*x-ambry-blob-size: 6176*

*Accept-Ranges: bytes*

*Content-Length: 6176*

*Content-Type: image/gif*

*Expires: Sat, 20 Apr 2019 09:42:22 GMT*

*Cache-Control: max-age=31536000*

1. 获取Block文件

*# curl http://localhost:1174/AAMAAf\_\_AAAAAQAAAAAAAAAAAAAAJDlmMmUyYzcxLWE2OTgtNDczOS04MjYxLWU3Zjg4ZjhiMmViOQ > demo-download.gif*

*# diff demo.gif demo-download.gif*

1. 删除BlOCK文件

*#curl -i -X DELETE http://localhost:1174/AAMAAf\_\_AAAAAQAAAAAAAAAAAAAAJDlmMmUyYzcxLWE2OTgtNDczOS04MjYxLWU3Zjg4ZjhiMmViOQ*

*HTTP/1.1 202 Accepted*

*Date: Fri, 20 Apr 2018 09:46:18 GMT*

*Content-Length: 0*

*# curl -i http://localhost:1174/AAMAAf\_\_AAAAAQAAAAAAAAAAAAAAJDlmMmUyYzcxLWE2OTgtNDczOS04MjYxLWU3Zjg4ZjhiMmViOQ/BlobInfo*

*HTTP/1.1 410 Gone*

*date: Fri, 20 Apr 2018 09:46:35 GMT*

*content-length: 0*

*x-ambry-error-code: Deleted*

*content-type: text/plain; charset=UTF-8*