

图 1-1

**Not Only SQL**

图 1-2



图 1-3

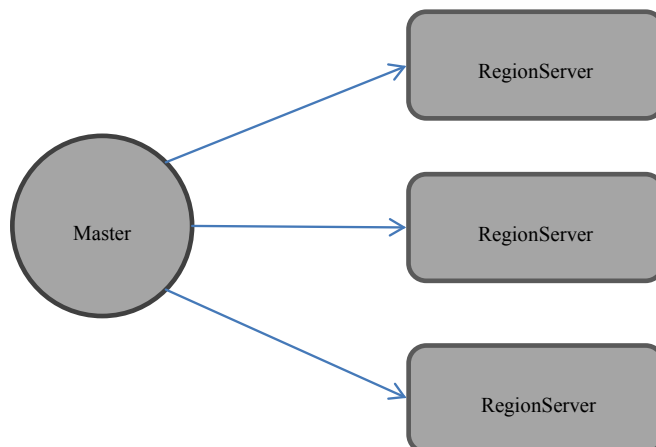


图 1-4

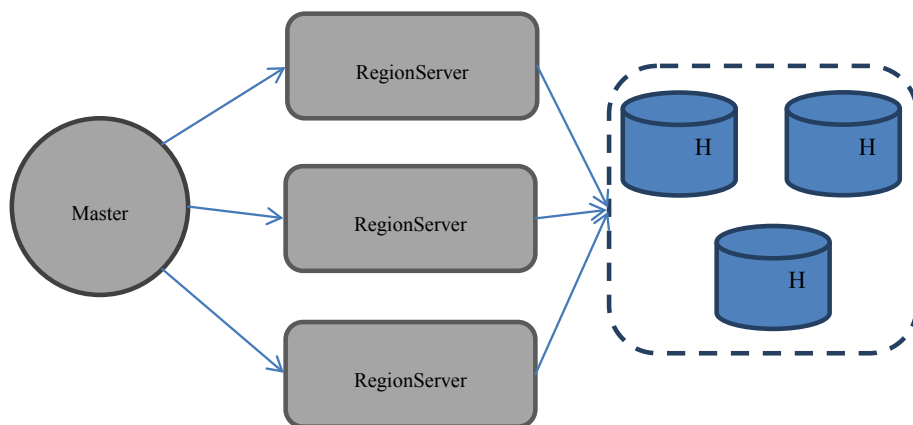


图 1-5

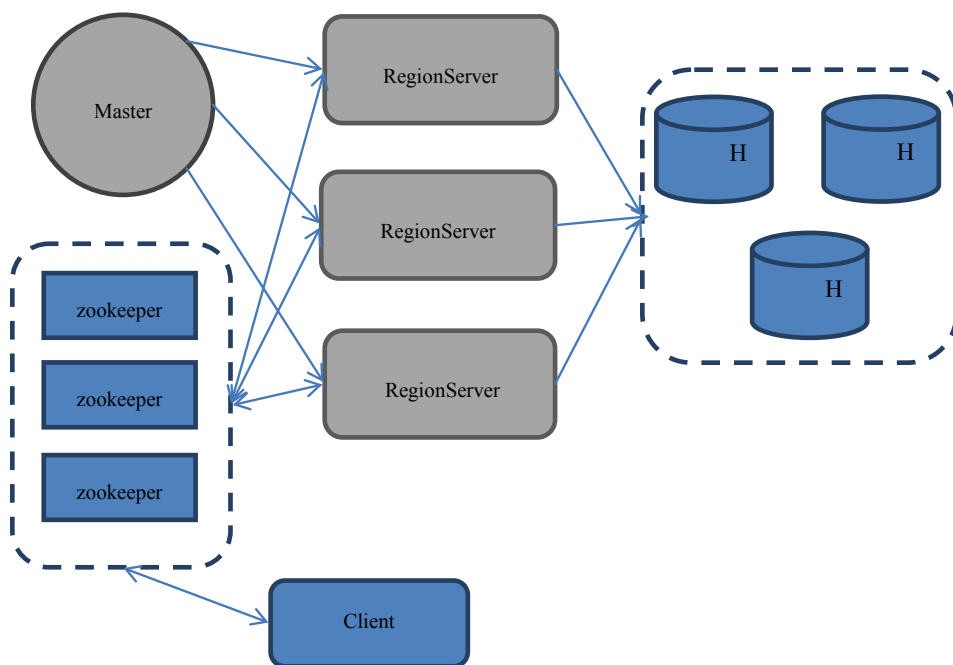


图 1-6

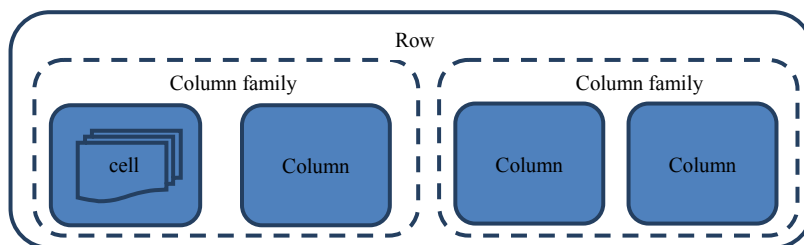


图 1-7

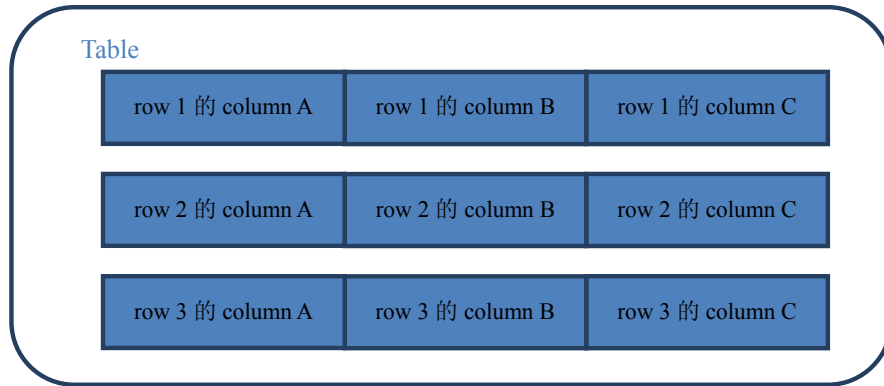


图 1-8

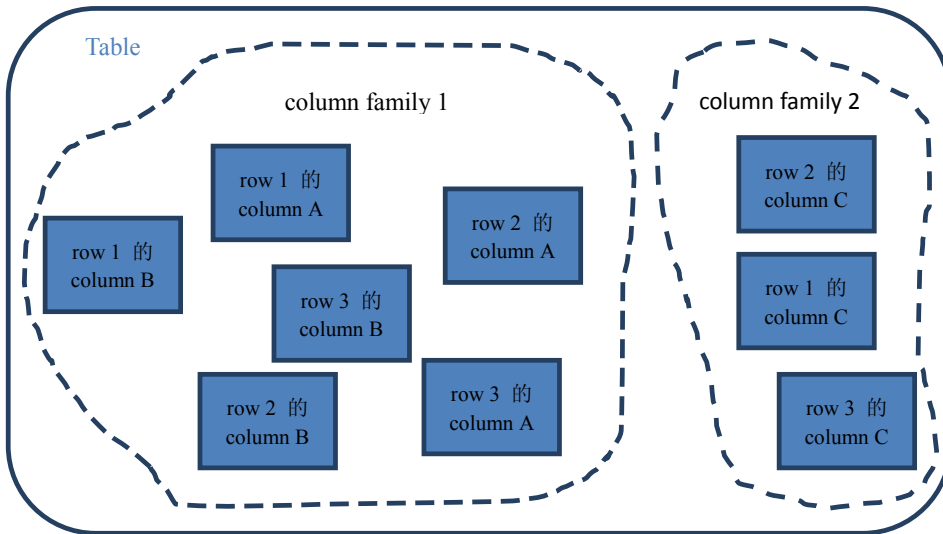


图 1-9



图 2-1

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

## Overview 'nn01:8020' (active)

Started:	Wed Jul 06 08:56:10 CST 2016
Version:	2.6.4, r5082c73637530b0b7e115f9625ed7fac69f937e6
Compiled:	2016-02-12T09:45Z by jenkins from (detached from 5082c73)
Cluster ID:	CID-1fdf8209-3118-4001-bcf6-62f92980dfbc
Block Pool ID:	BP-179823345-0.0.0.50-1467766559324

图 2-3

Hadoop Overview Datanodes Snapshot Startup Progress Utilities

## Datanode Information

In operation

Node	Last contact	Admin State	Capacity	Used	Non DFS Used	Remaining	Blocks	Block pool used	Failed Volumes	Version
0.0.0.53 (10.10.10.78.53:50010)	0	In Service	48.39 GB	24 KB	3.03 GB	45.36 GB	0	24 KB (0%)	0	2.6.4
0.0.0.54 (10.10.10.78.54:50010)	1	In Service	48.39 GB	24 KB	3.03 GB	45.36 GB	0	24 KB (0%)	0	2.6.4
0.0.0.52 (10.10.10.78.52:50010)	0	In Service	48.39 GB	24 KB	3.19 GB	45.2 GB	0	24 KB (0%)	0	2.6.4

图 2-4

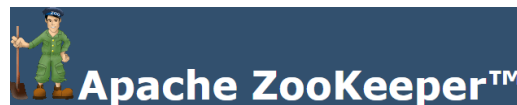


图 2-5

Overview 'nn02:8020' (standby)

Overview 'nn02:8020' (standby)

图 2-7

Overview 'nn01:8020' (active)

图 2-8

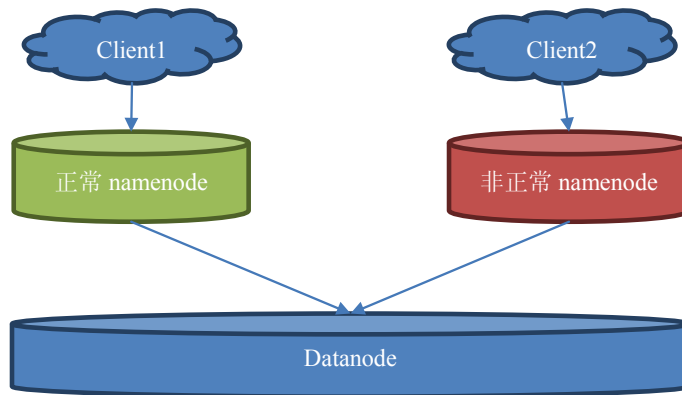


图 2-9



图 2-10

# Datanode Information

In operation

Node	Last contact	Admin State	Capacity	Used	Non DFS Used
0.0.0.53 (78.53:50010)	1	In Service	48.39 GB	24 KB	3.04 GB
0.0.0.54 (78.54:50010)	1	In Service	48.39 GB	24 KB	3.04 GB
0.0.0.52 (78.52:50010)	1	In Service	48.39 GB	24 KB	3.2 GB

图 2-11

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	
 <a href="#">0.98.20/</a>	14-Jun-2016 01:31	-	
 <a href="#">1.1.5/</a>	13-May-2016 20:32	-	
 <a href="#">1.2.2/</a>	12-Jul-2016 13:47	-	
 <a href="#">hbase-0.94.27/</a>	14-Oct-2015 11:10	-	
 <a href="#">hbase-1.0.3/</a>	08-May-2016 20:05	-	
 <a href="#">stable/</a>	12-Jul-2016 13:47	-	

图 2-12

```

Jan 29 15:43 bin
Jul 1 20:41 CHANGES.txt
Jan 29 15:33 conf
Jul 1 21:27 docs
Jul 1 20:49 hbase-webapps
Jul 1 21:32 LEGAL
Jul 25 02:38 lib
Jul 1 21:32 LICENSE.txt
Jul 1 21:32 NOTICE.txt
Dec 27 2015 README.txt

```

图 2-13

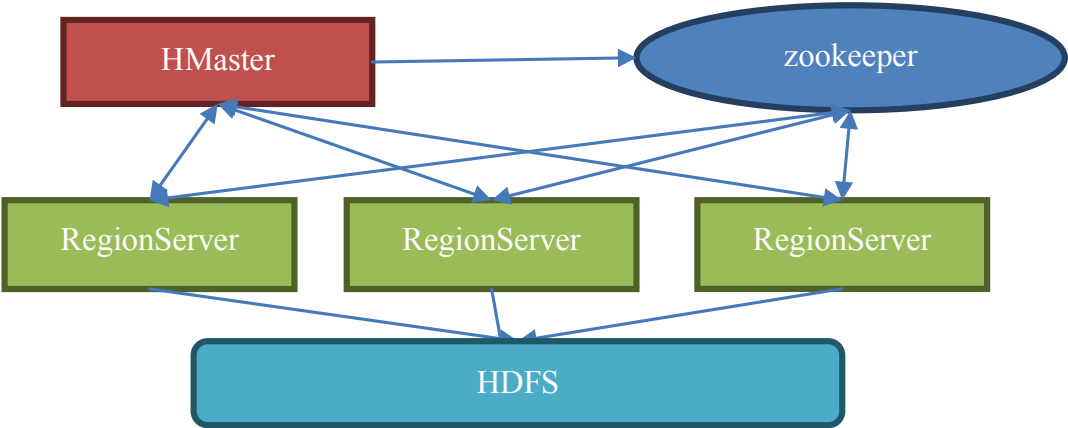


图 2-14

APACHE  
HBASE

[Home](#)[Table Details](#)[Local Logs](#)[Log Level](#)[Debug Dump](#)[Metrics Dump](#)[HBase Configuration](#)

Master nn01

Region Servers

Base Stats

Memory

Requests

Storefiles

Compactions

ServerName	Start time	Version
dn01,16020,1470697169066	Tue Aug 09 06:59:29 CST 2016	1.2.2
dn02,16020,1470697170559	Tue Aug 09 06:59:30 CST 2016	1.2.2
dn03,16020,1470697170729	Tue Aug 09 06:59:30 CST 2016	1.2.2
nn01,16020,1470692992948	Tue Aug 09 05:49:52 CST 2016	1.2.2
nn02,16020,1470697169077	Tue Aug 09 06:59:29 CST 2016	1.2.2

Total:5

图 2-15

Key Len	Value Len	Row Len	Row	CF Len	CF	Col	Time Stamp	Key Type	Value
------------	--------------	------------	-----	-----------	----	-----	---------------	-------------	-------

图 2-16

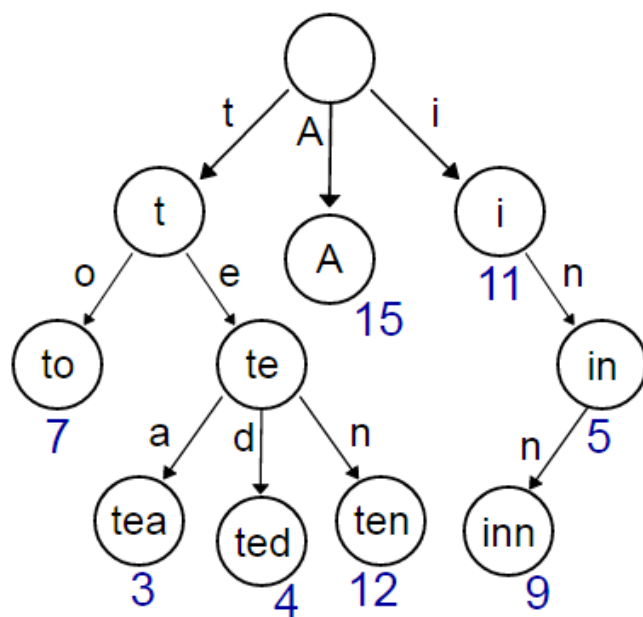


图 2-17

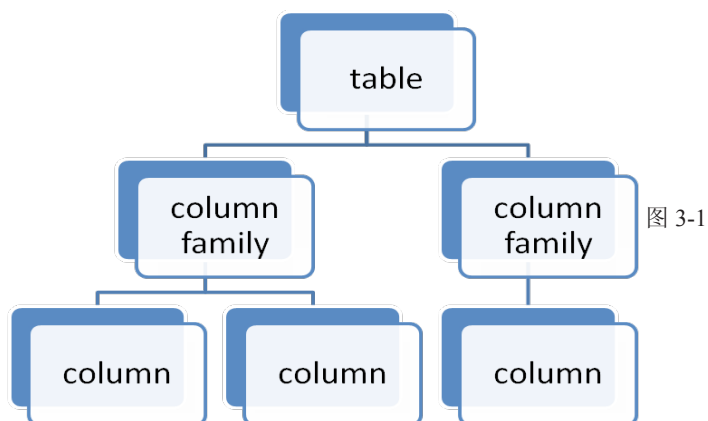


图 3-1



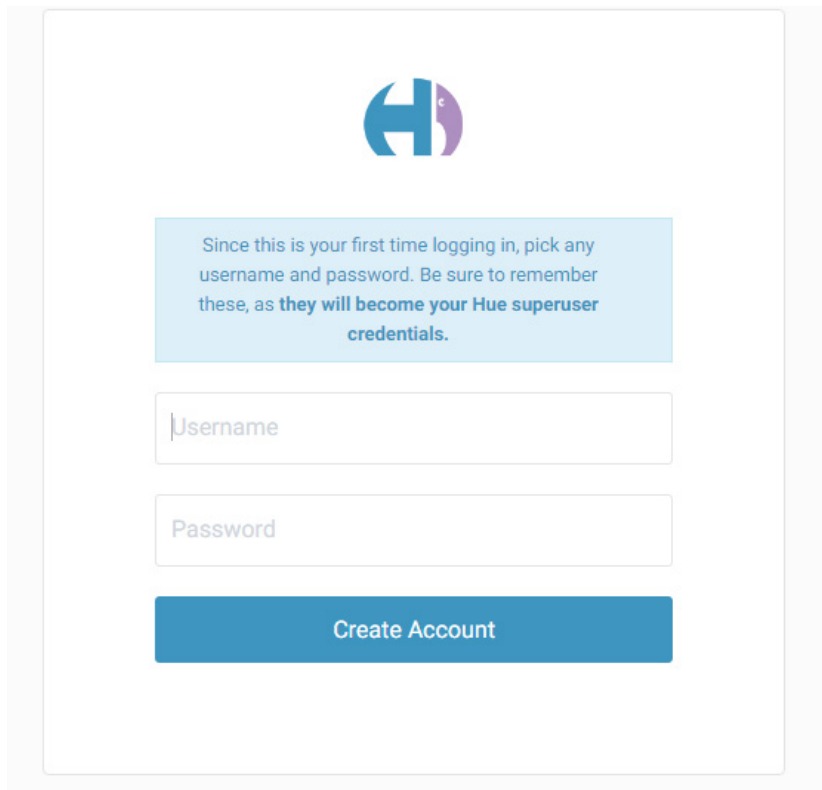


图 3-2

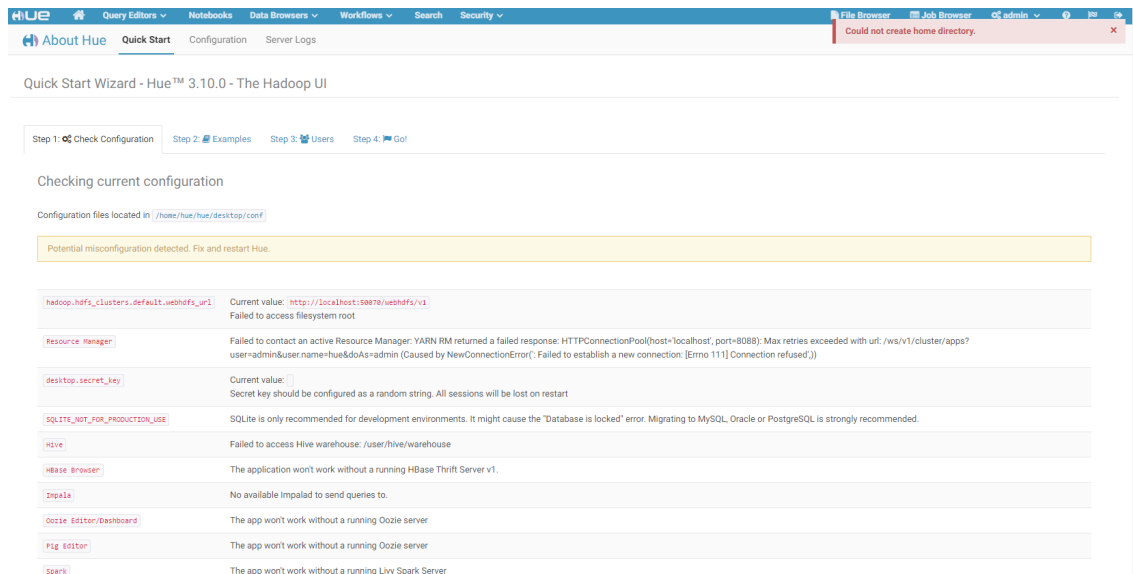


图 3-3

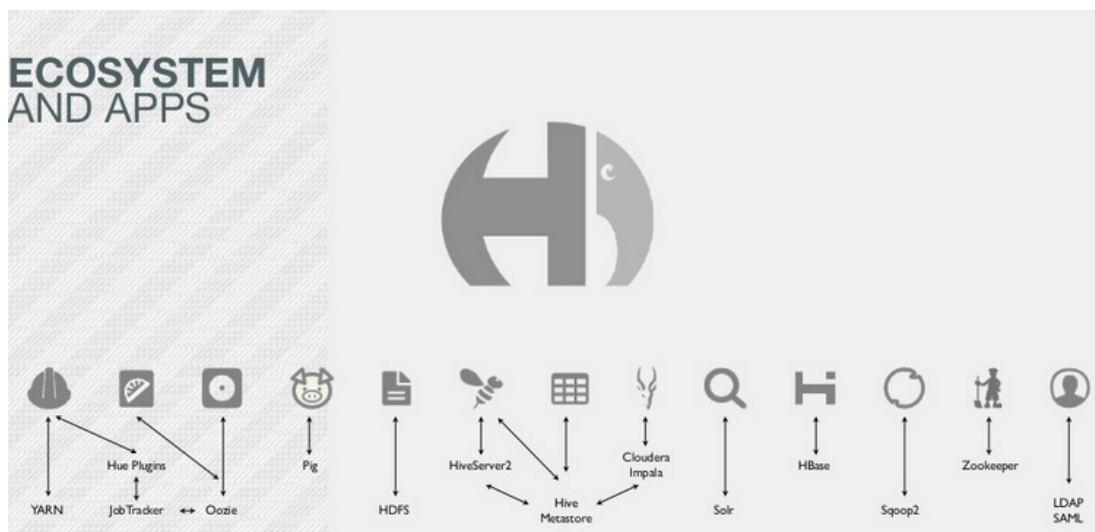


图 3-4

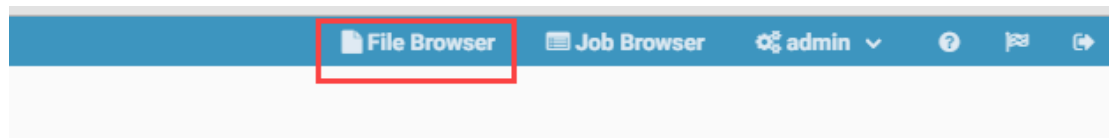


图 3-5

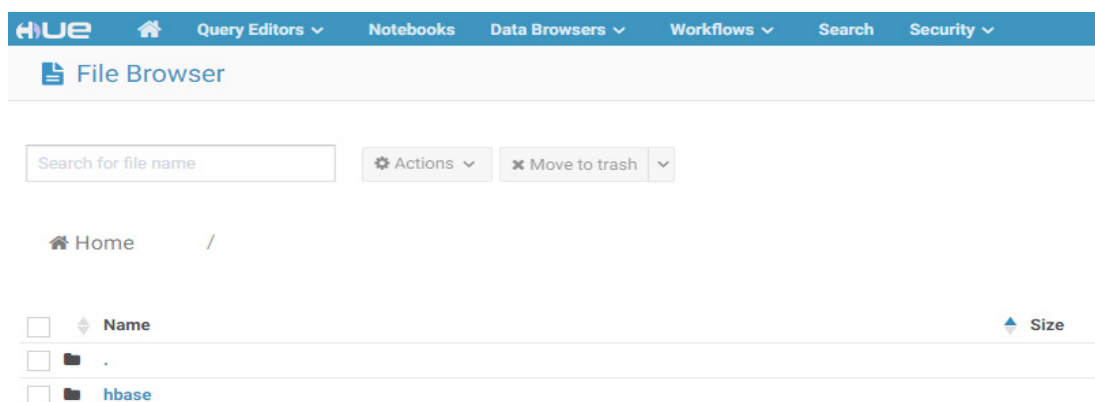


图 3-6

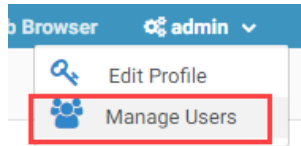




图 3-7

Step 1: Credentials (required)   Step 2: Profile and Groups   Step 3: Advanced

Username 

New Password


Password confirmation

Create home directory  ☒

[Back](#) [Next](#) [Add user](#)


图 3-8

Step 1: Credentials (required)   Step 2: Profile and Groups   Step 3: Advanced

Username 

New Password

Password confirmation

Create home directory  ☒

[Back](#) [Next](#) [Add user](#)

图 3-9

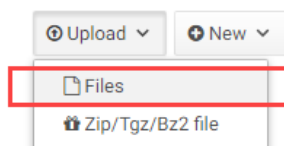


图 3-10

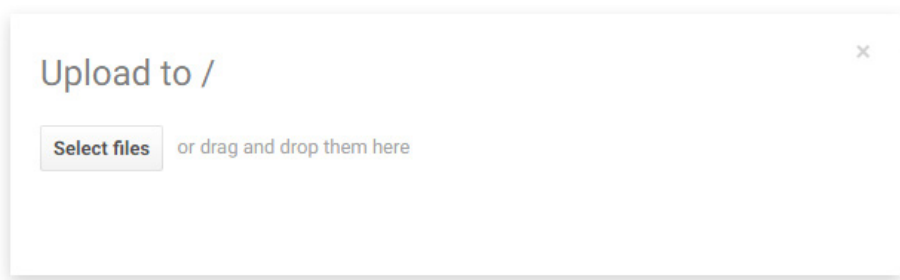


图 3-11

Home / History Trash

<input type="checkbox"/>	Name	Size	User	Group	Permissions	Date
<input type="checkbox"/>	.		hadoop	supergroup	drwxr-xr-x	August 18, 2016 03:29 PM
<input type="checkbox"/>	hbase		hbase	supergroup	drwxr-xr-x	August 08, 2016 04:08 PM
<input type="checkbox"/>	user		hadoop	supergroup	drwxr-xr-x	August 18, 2016 03:24 PM
<input type="checkbox"/>	测试文本.txt	3 bytes	hadoop	supergroup	-rw-r--r--	August 18, 2016 03:29 PM

图 3-12

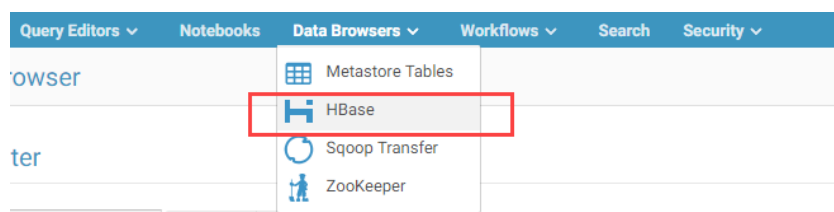


图 3-13

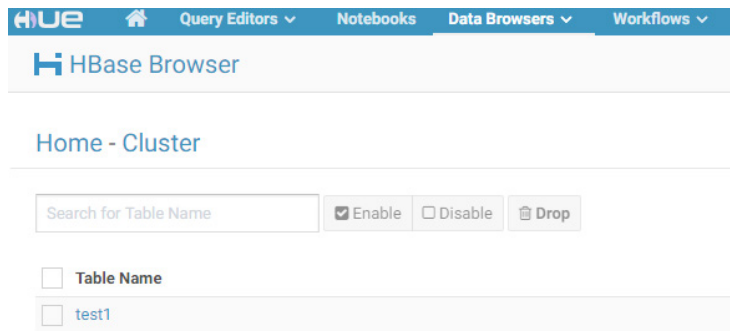


图 3-14

## Home - Cluster / test1

row\_key, row\_prefix\*+scan\_len [col1, family:col2, fam3; col\_prefix\*+3, fam: col2 to col3] { cf:

row1	cf: city	cf: age	cf: name
	beijing	22	jack
row2	cf: city	cf: age	cf: name
	shanghai	23	ted
row3	cf: city	cf: age	cf: name
	shenzhen	33	sara

图 3-15

## Home - Cluster / test1

row1+1

row1

cf: city	cf: age	cf: name	
beijing	22	jack	

row2

cf: city	cf: age	Full Editor	cf: name
shanghai	23		ted
8/26/2016, 5:21:36 PM			

图 3-16

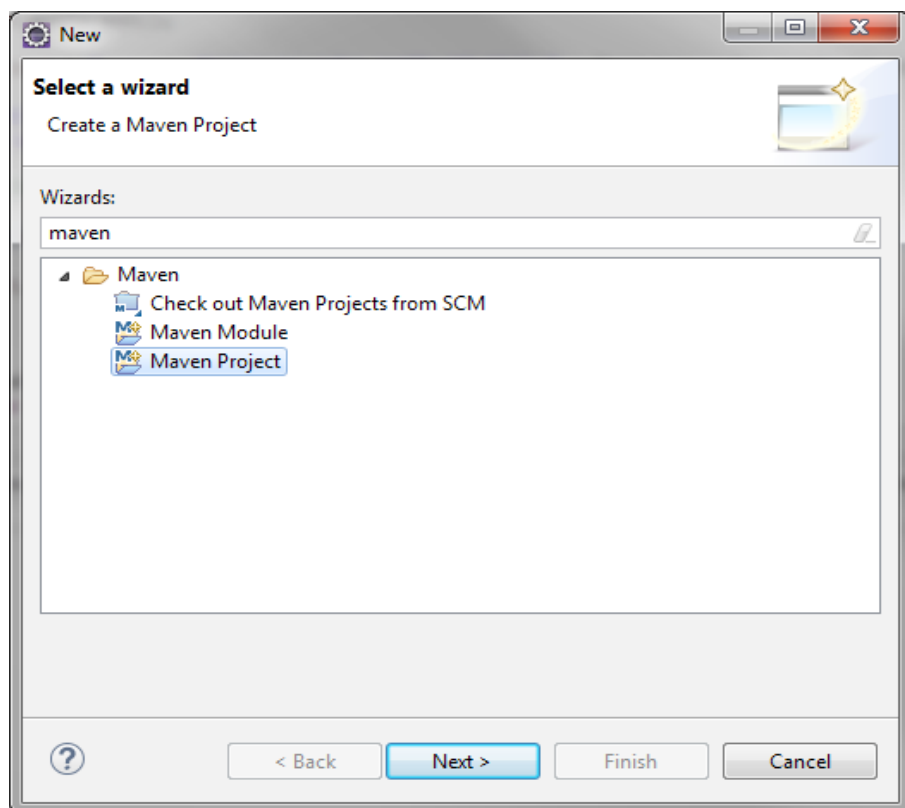


图 4-1

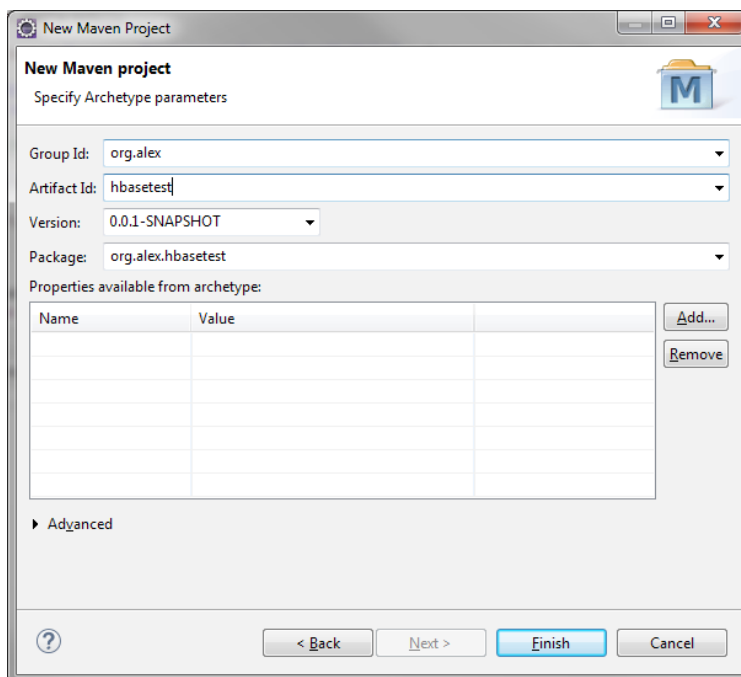


图 4-2

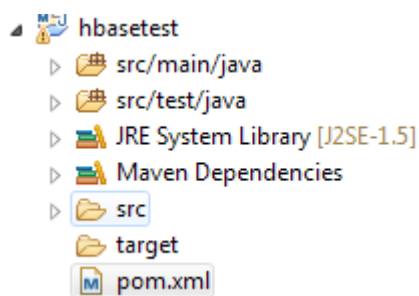


图 4-3

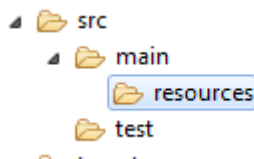


图 4-4

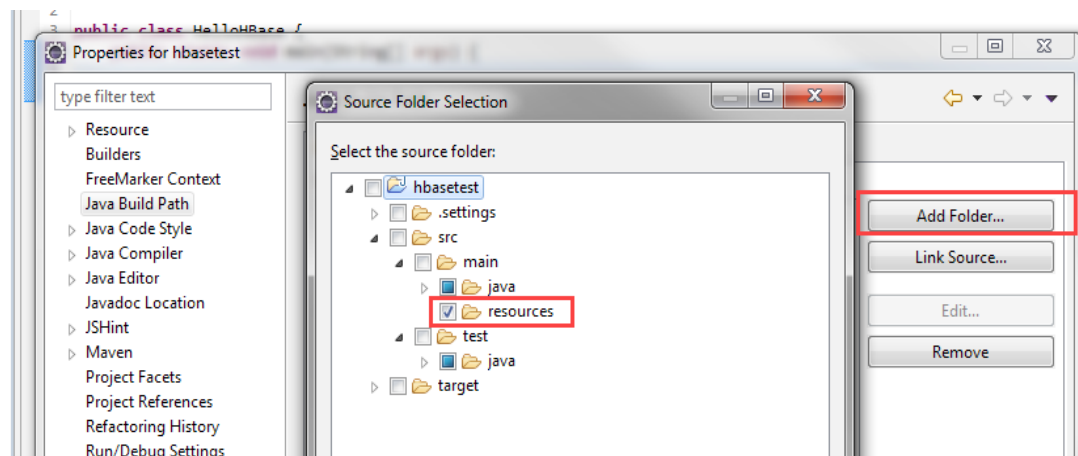


图 4-5

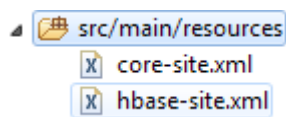


图 4-6

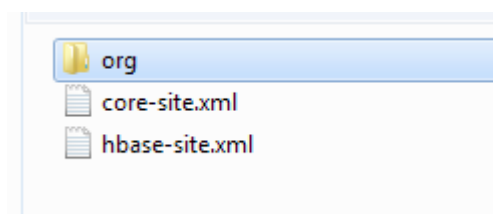


图 4-7



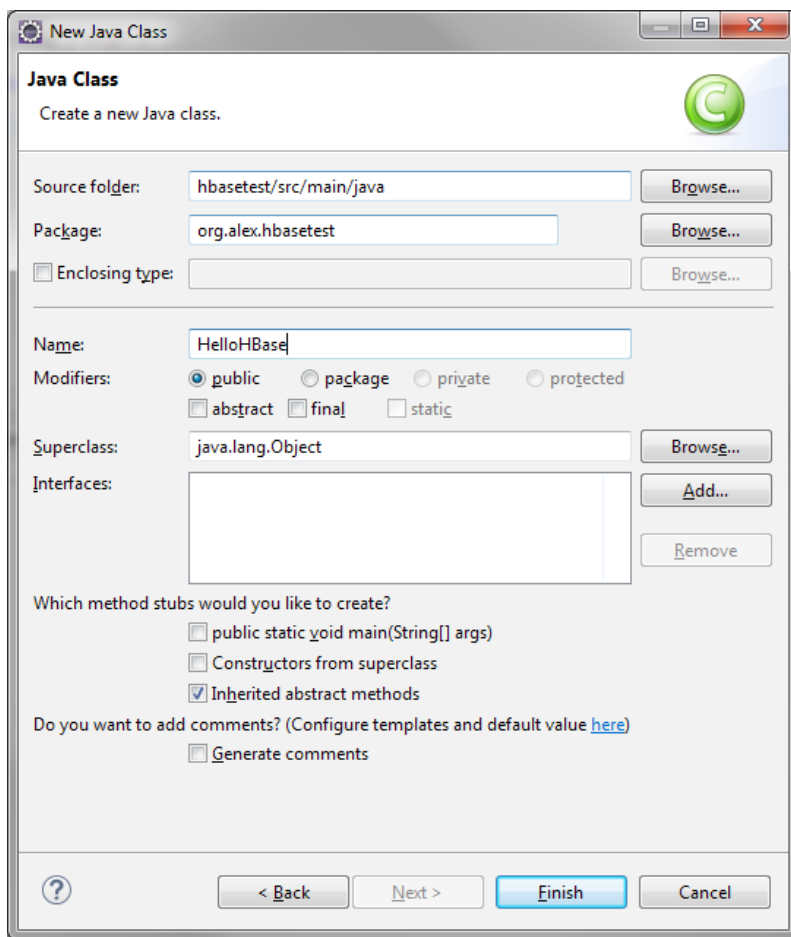


图 4-8

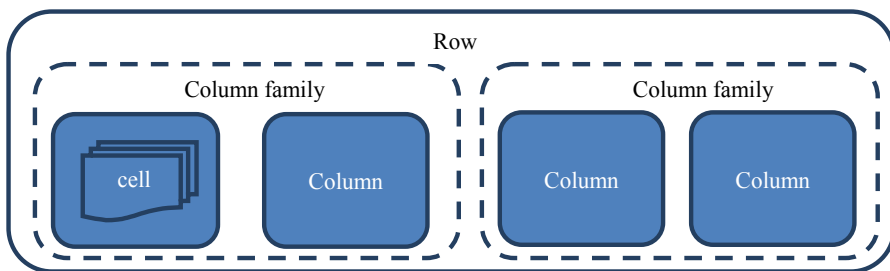


图 5-1

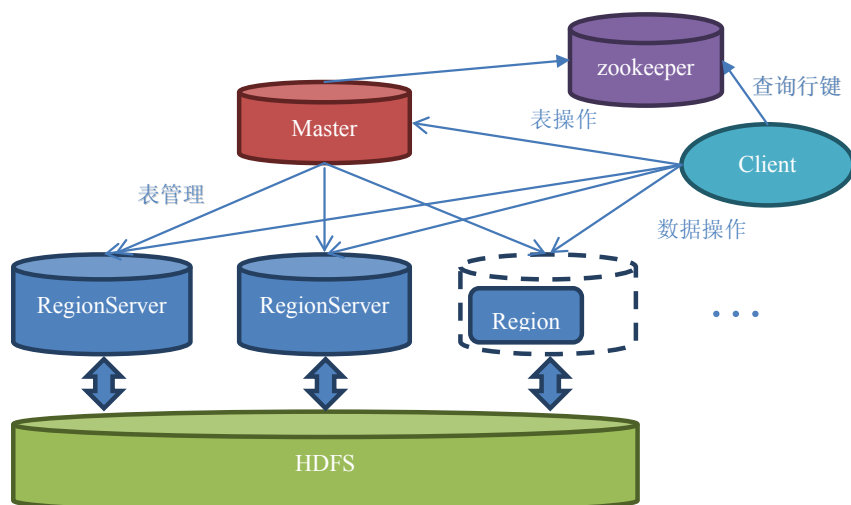


图 5-2



图 5-3

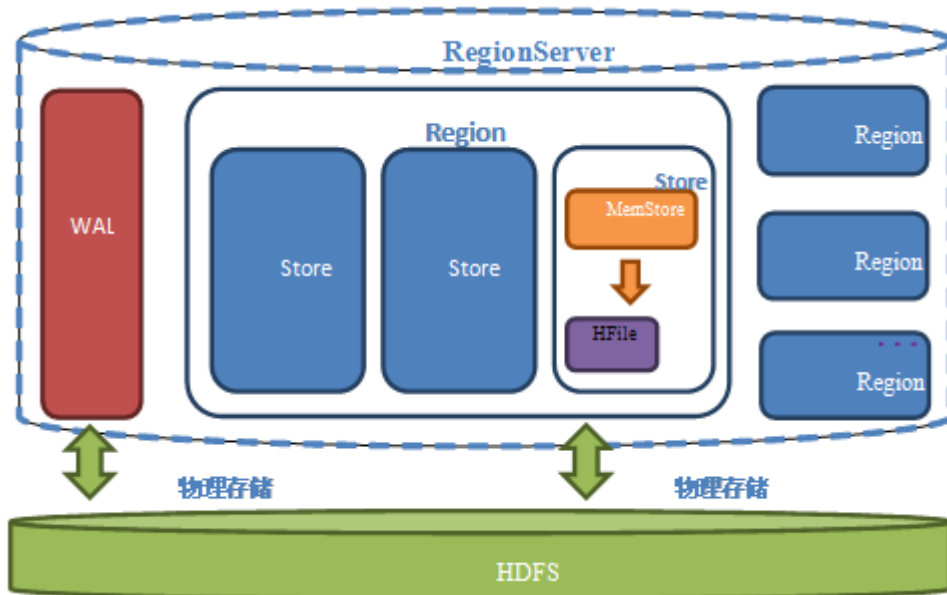


图 5-4

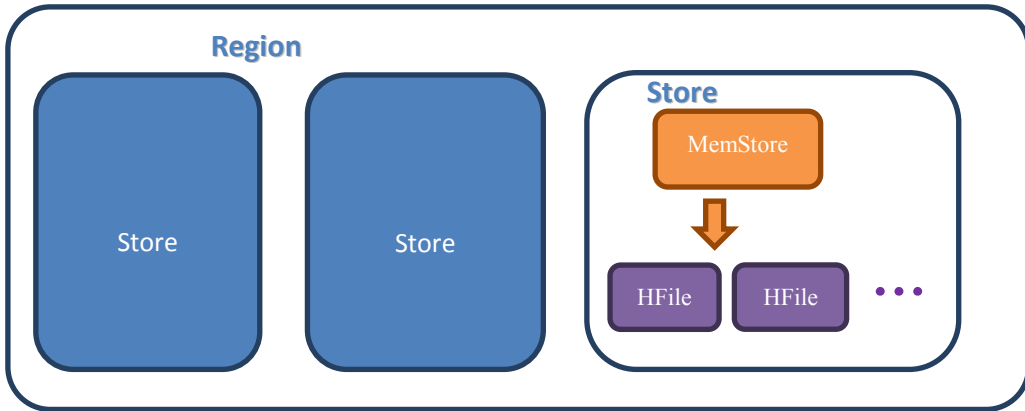


图 5-5

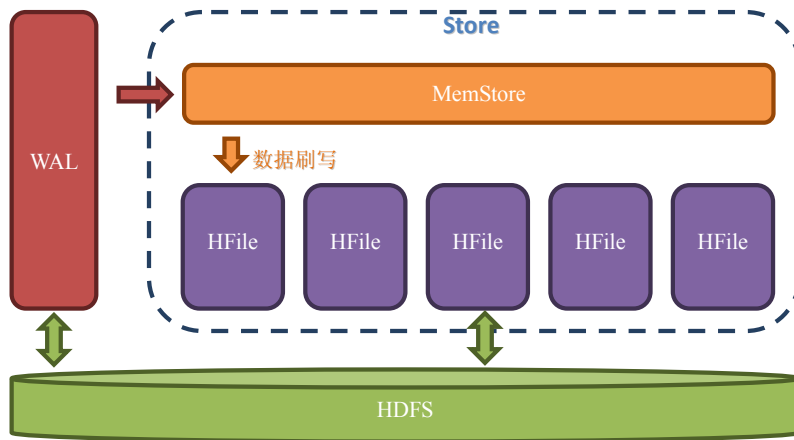


图 5-6

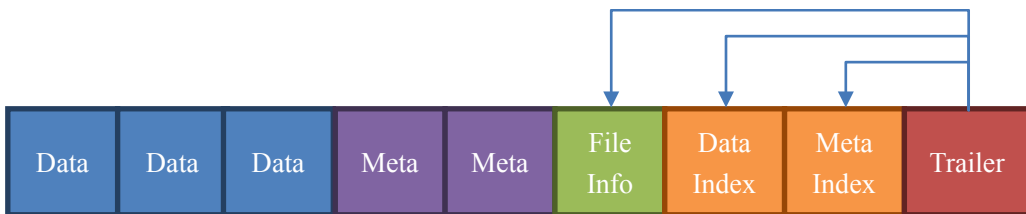


图 5-7



图 5-8



图 5-9

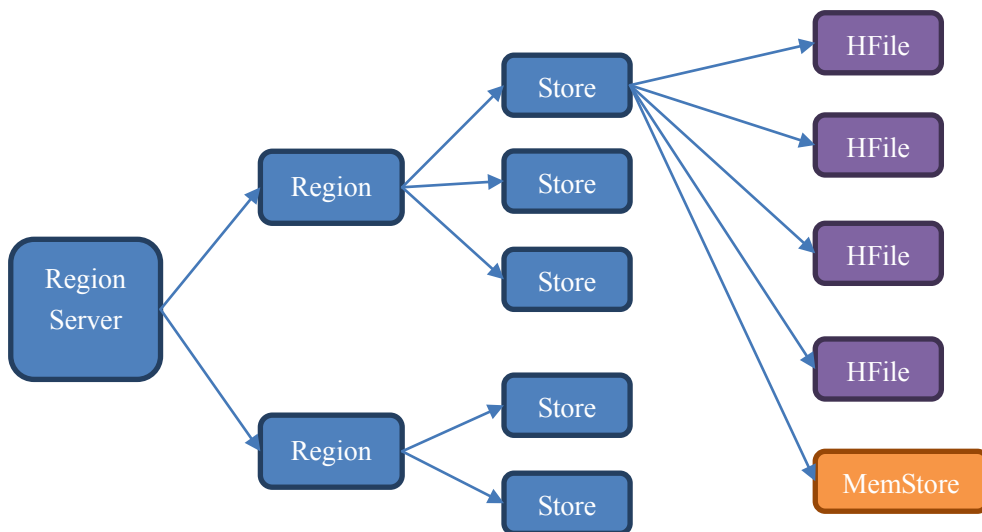


图 5-10

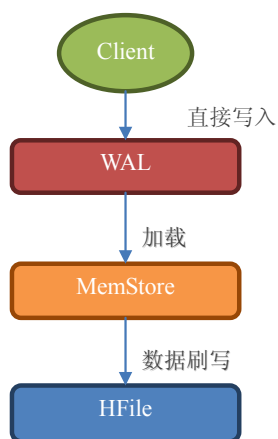


图 5-11

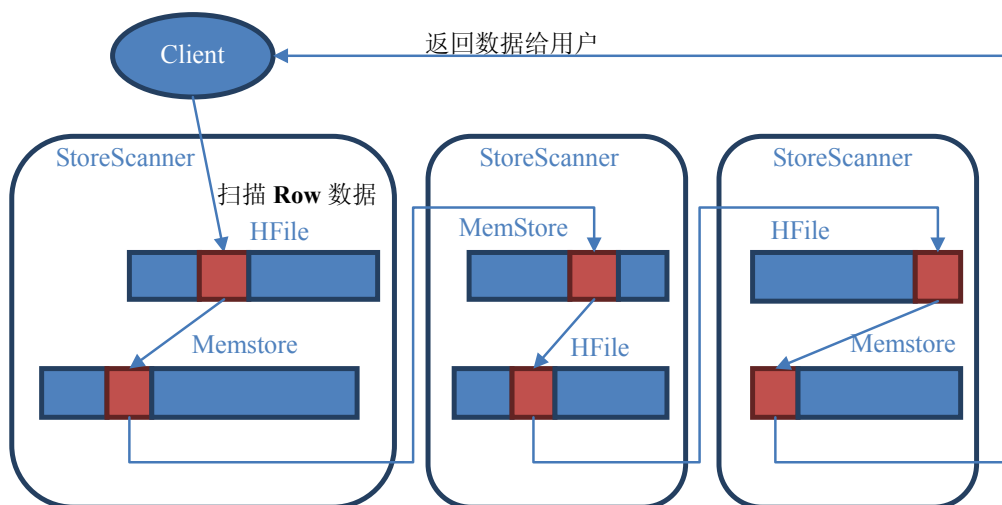


图 5-12



图 5-13

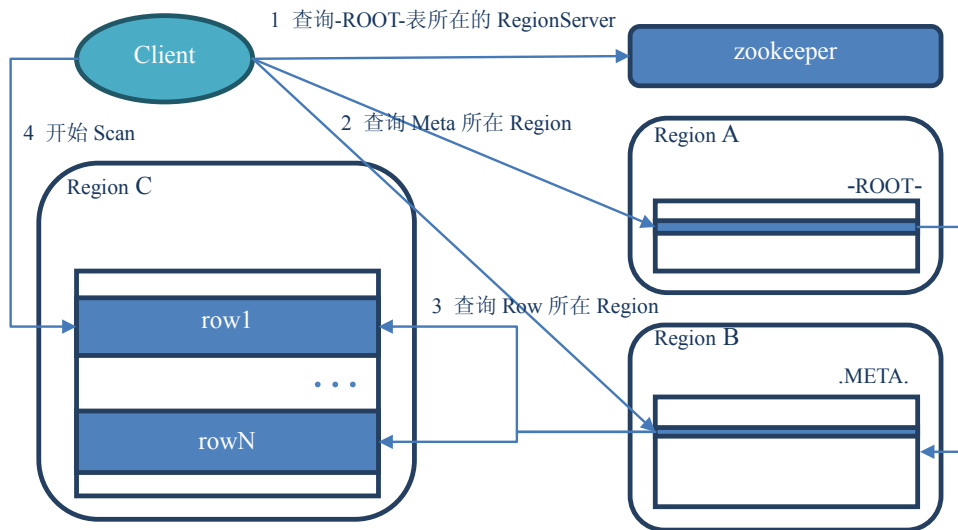


图 5-14

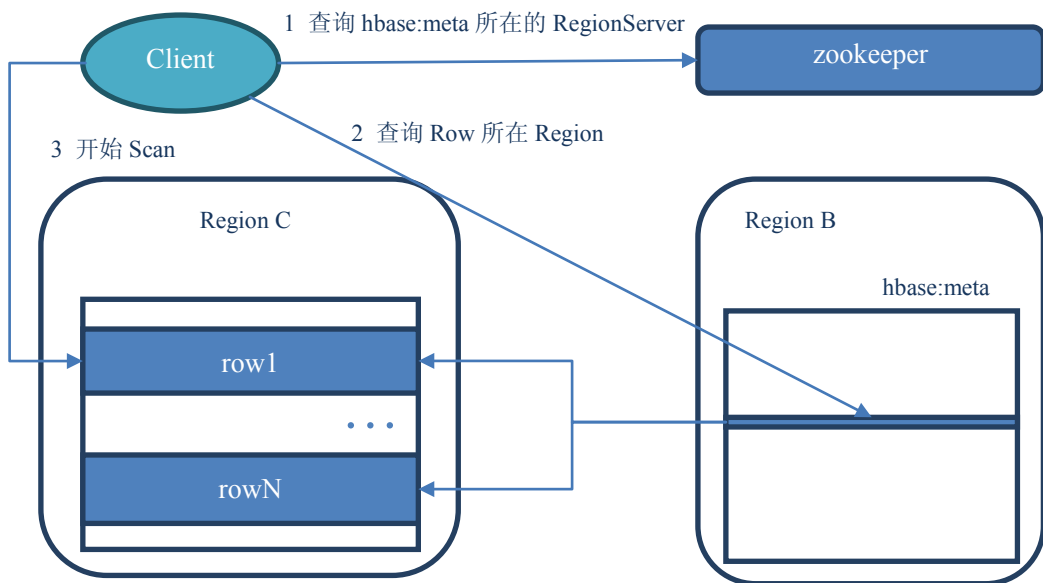


图 5-15

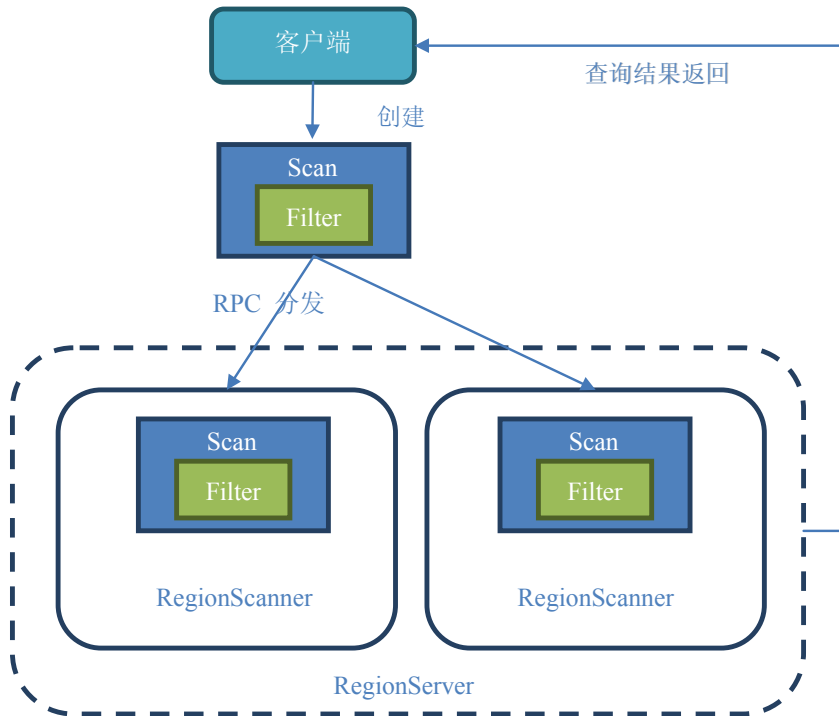


图 6-1

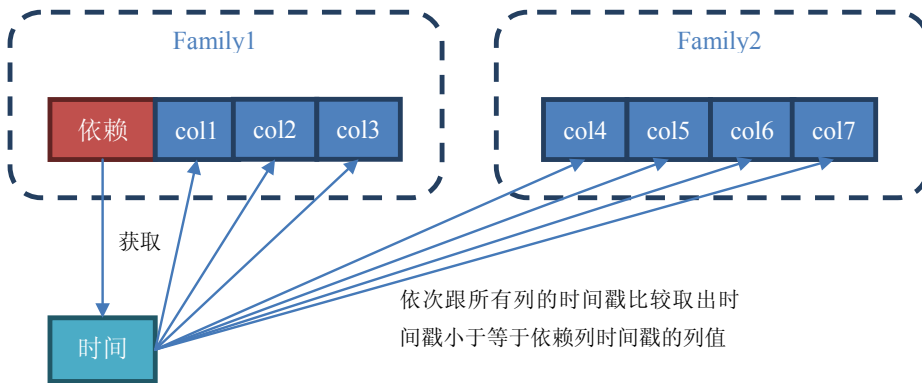


图 6-2

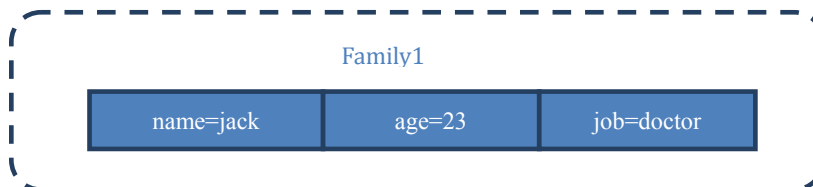


图 6-3

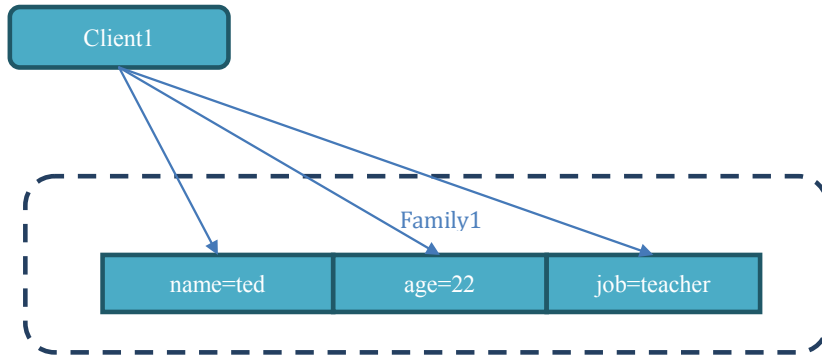


图 6-4

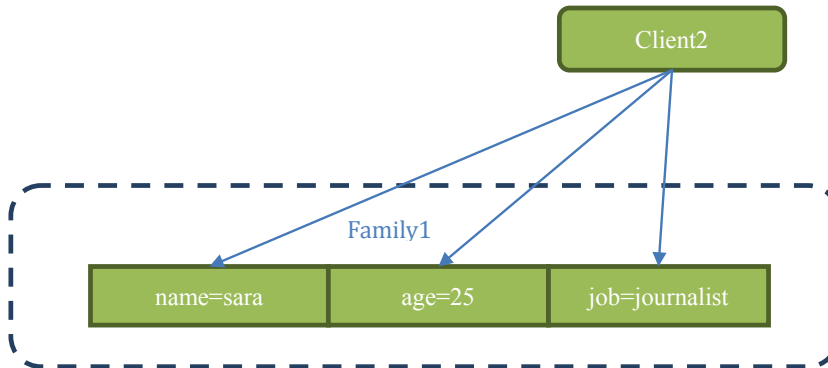


图 6-5

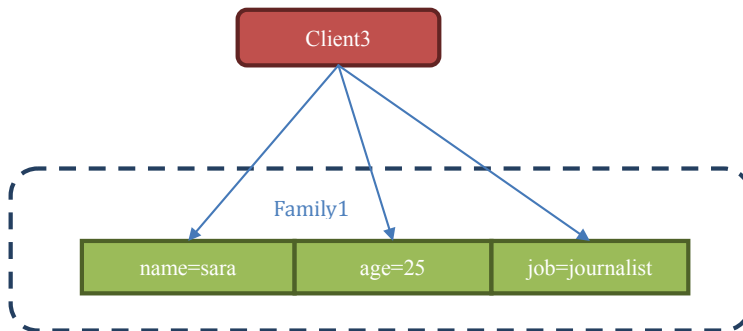


图 6-6

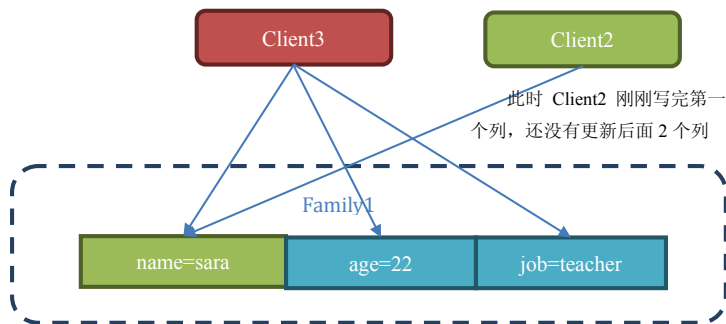


图 6-7

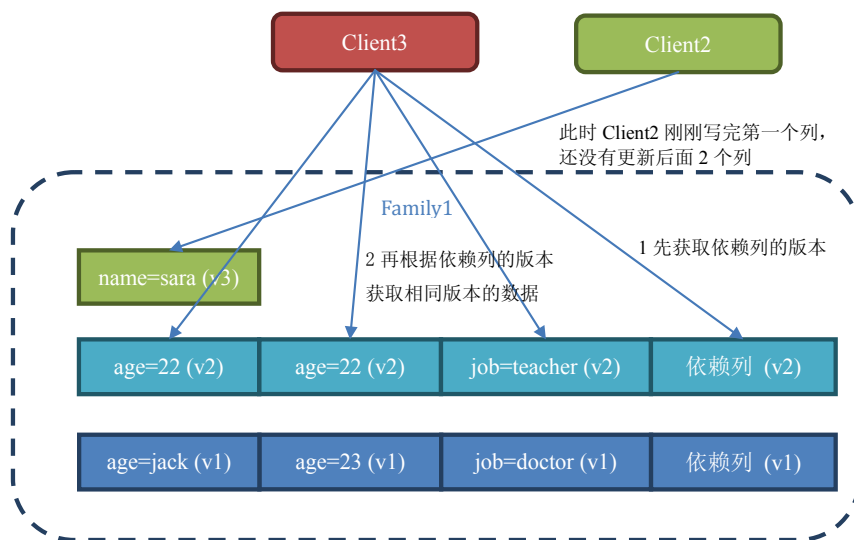


图 6-8

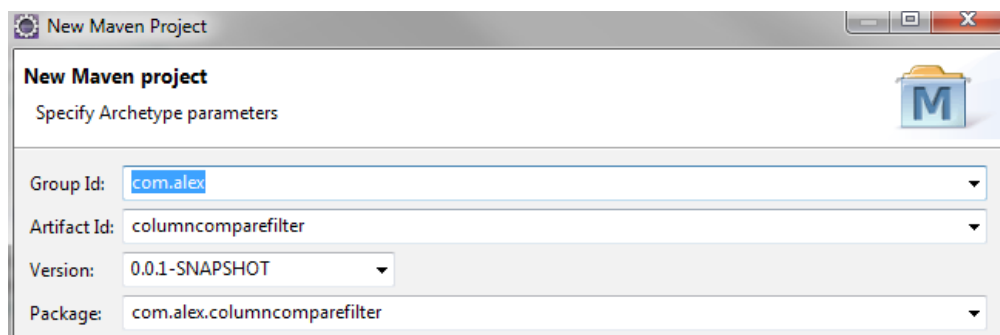


图 6-9

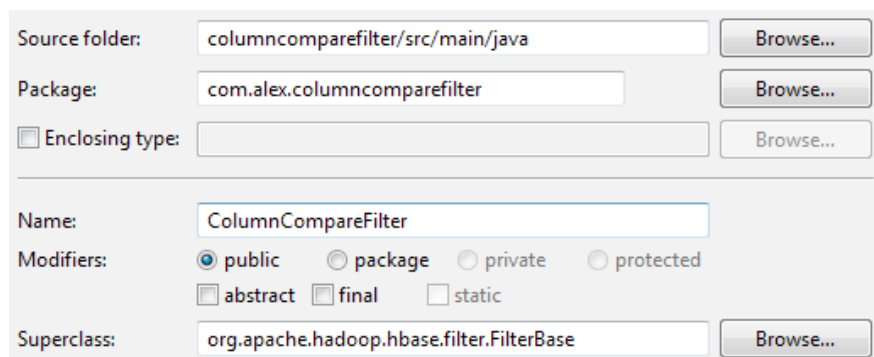


图 6-10



## HBase Releases

Please make sure you're downloading from [a nearby mirror site](#), not from v

We suggest downloading the current [stable](#) release.

The 1.2.x series is the current stable release line, it supercedes 1.1.x, 1.0.x, EOL'd September 1st, 2014.

For older versions, check the [apache archive](#).

Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	
 <a href="#">0.98.12.1/</a>	2015-05-21 17:42	-	
 <a href="#">0.98.13/</a>	2015-08-19 00:03	-	
 <a href="#">0.98.14/</a>	2015-08-31 19:30	-	
 <a href="#">0.98.15/</a>	2015-10-14 16:12	-	
 <a href="#">0.98.16.1/</a>	2015-11-27 05:47	-	
 <a href="#">0.98.16/</a>	2015-11-17 21:04	-	
 <a href="#">0.98.17/</a>	2016-01-25 21:26	-	
 <a href="#">0.98.18/</a>	2016-03-26 17:08	-	
 <a href="#">0.98.19/</a>	2016-05-09 01:05	-	
 <a href="#">0.98.20/</a>	2016-06-14 06:32	-	
 <a href="#">0.98.21/</a>	2016-08-16 05:11	-	
 <a href="#">0.98.22/</a>	2016-09-13 02:44	-	

图 6-11

## Index of /dist/hbase/1.2.2












Name	Last modified	Size	Description
 <a href="#">Parent Directory</a>		-	
 <a href="#">hbase-1.2.2-bin.tar.gz</a>	2016-07-12 18:46	103M	
 <a href="#">hbase-1.2.2-bin.tar.gz.asc</a>	2016-07-12 18:46	819	
 <a href="#">hbase-1.2.2-bin.tar.gz.md5</a>	2016-07-12 18:46	73	
 <a href="#">hbase-1.2.2-bin.tar.gz.mds</a>	2016-07-12 18:46	1.1K	
 <a href="#">hbase-1.2.2-bin.tar.gz.sha</a>	2016-07-12 18:46	216	
 <a href="#">hbase-1.2.2-src.tar.gz</a>	2016-07-12 18:46	15M	
 <a href="#">hbase-1.2.2-src.tar.gz.asc</a>	2016-07-12 18:46	819	
 <a href="#">hbase-1.2.2-src.tar.gz.md5</a>	2016-07-12 18:46	73	
 <a href="#">hbase-1.2.2-src.tar.gz.mds</a>	2016-07-12 18:46	1.1K	
 <a href="#">hbase-1.2.2-src.tar.gz.sha</a>	2016-07-12 18:46	216	

图 6-12

## Downloads







 <a href="#">protobuf-2.5.0.tar.bz2</a>	1.78 MB
 <a href="#">protobuf-2.5.0.tar.gz</a>	2.29 MB
 <a href="#">protobuf-2.5.0.zip</a>	2.91 MB
 <a href="#">protoc-2.5.0-win32.zip</a>	638 KB
 <a href="#">Source code (zip)</a>	
 <a href="#">Source code (tar.gz)</a>	

图 6-13



图 6-14

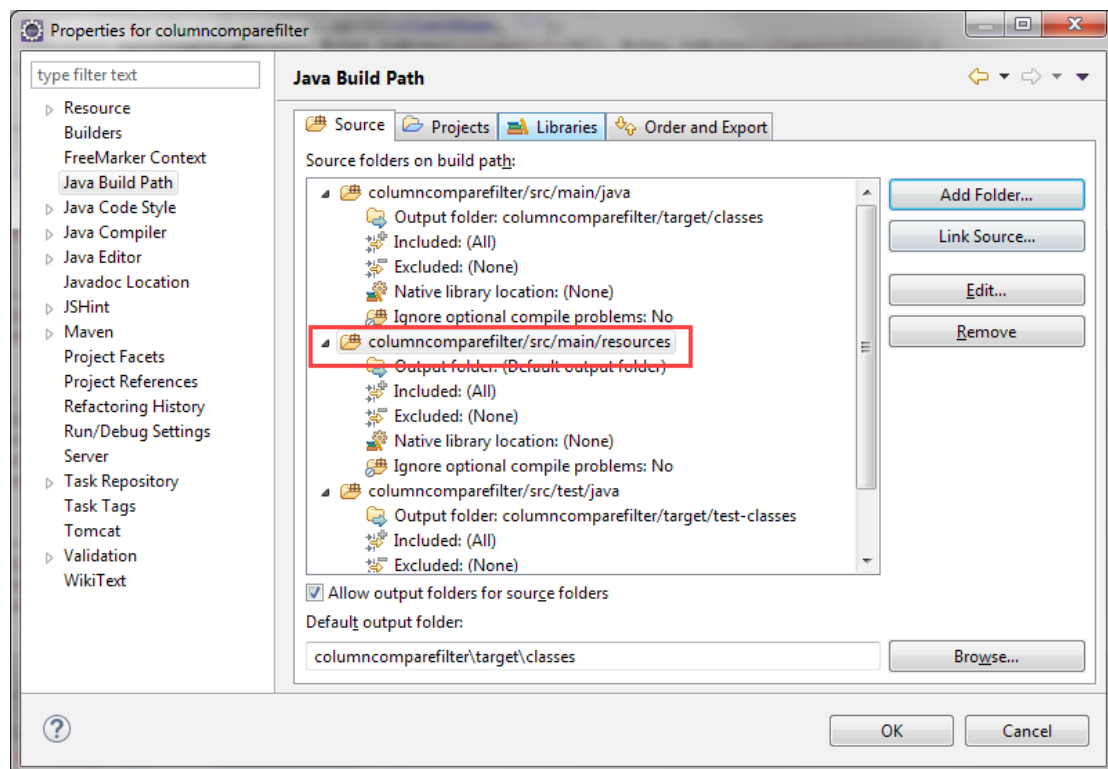


图 6-15

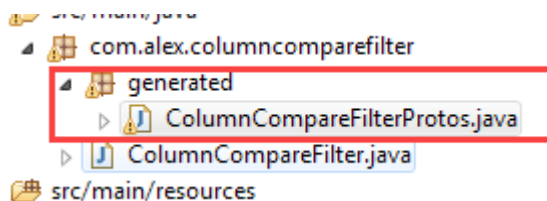


图 6-16



图 6-17

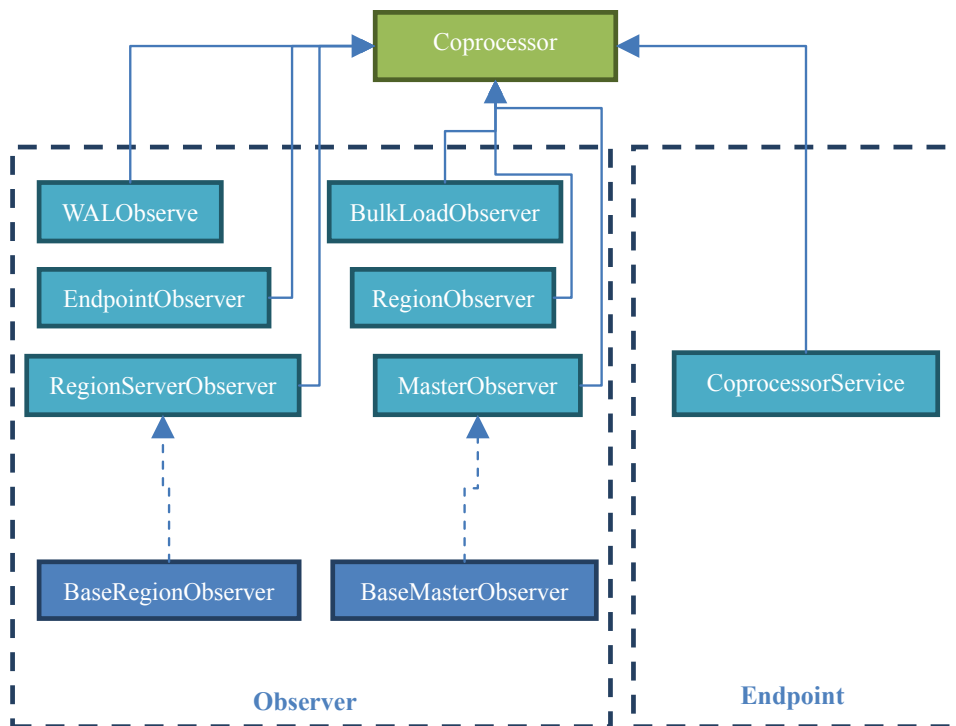


图 6-18

Name: HelloWorldObserver

Modifiers: ☒ public ☐ package ☐ private ☐ protected  
☐ abstract ☐ final ☐ static

Superclass: org.apache.hadoop.hbase.coprocessor.BaseRegionObse

图 6-19

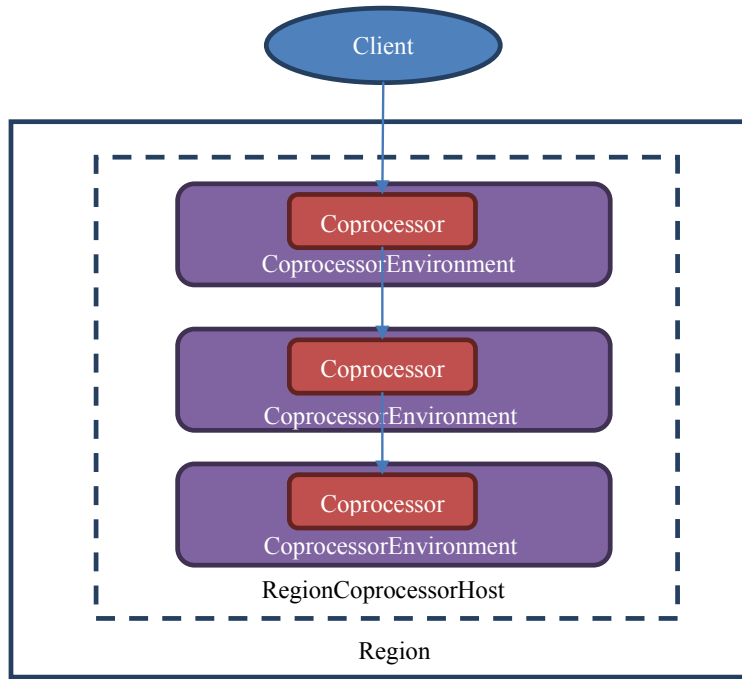


图 6-20

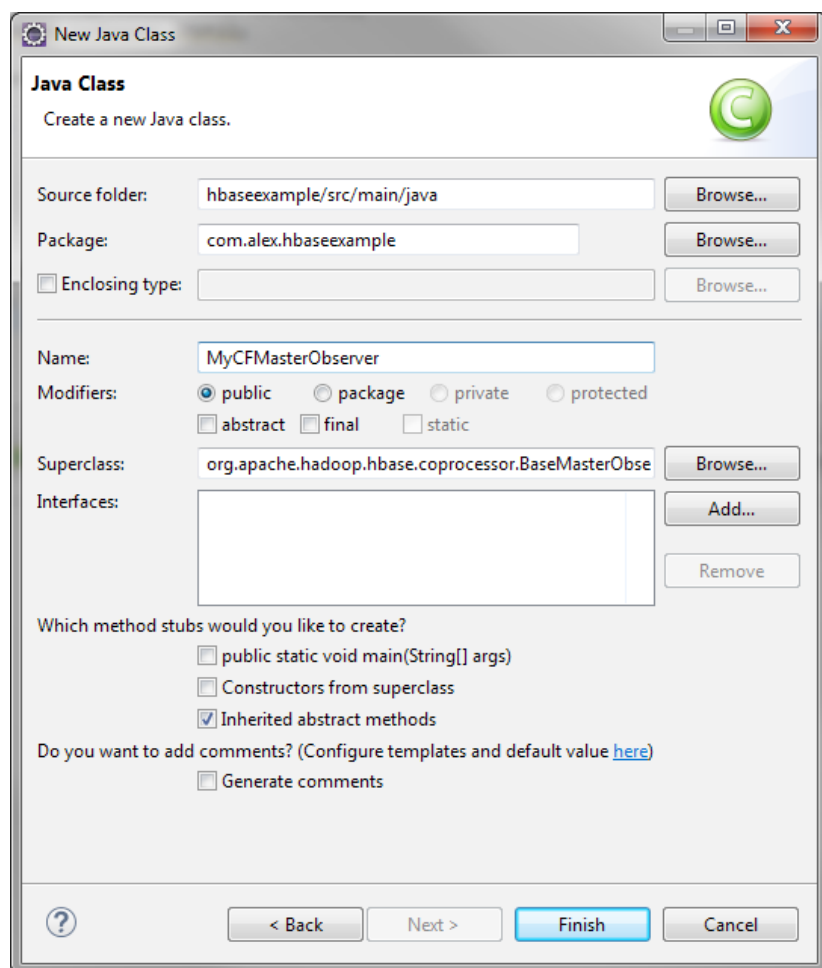


图 6-21

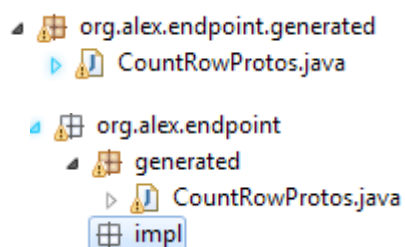


图 6-22

。

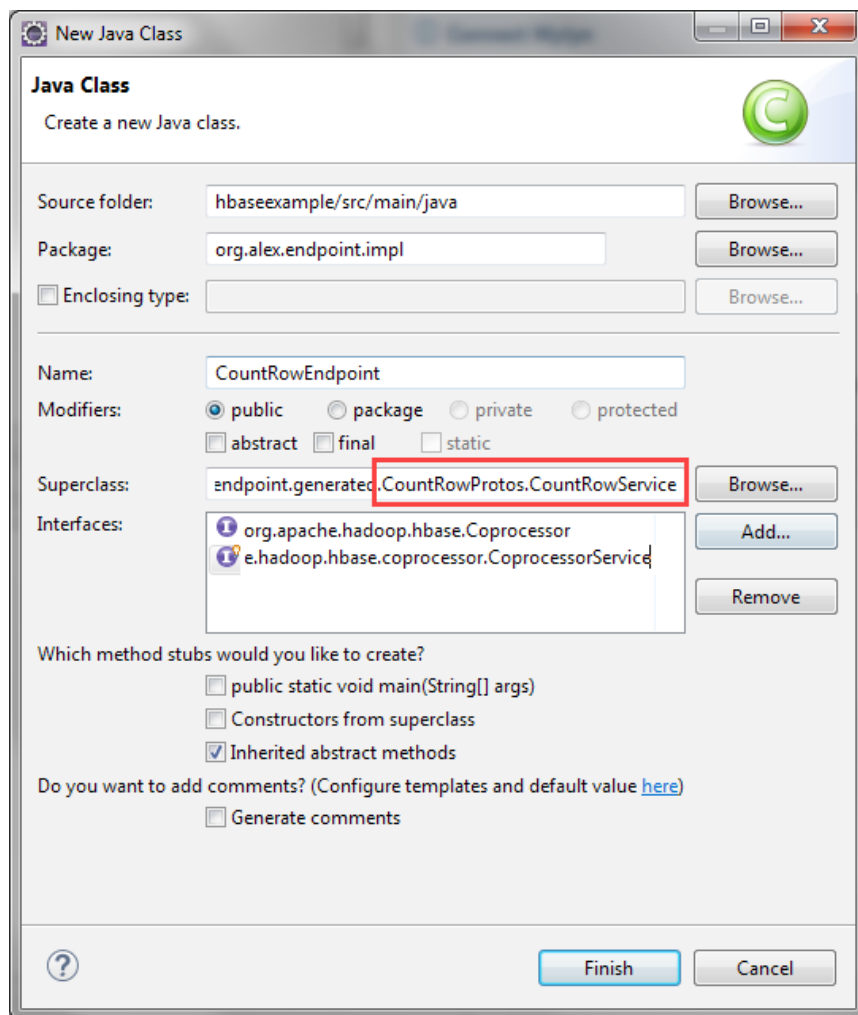


图 6-23

```
Util.cloneRow(cell);
    count++;
```

## Region Servers

Base Stats		Memory	Requests	Storefiles	Compactions
ServerName	Start time				
dn01,16020,1491937622761	Wed Apr 12 03:07:02 CST 2017				
dn02,16020,1491937622195	Wed Apr 12 03:07:02 CST 2017				
dn03,16020,1491937622779	Wed Apr 12 03:07:02 CST 2017				
nn01,16020,1491937622739	Wed Apr 12 03:07:02 CST 2017				
nn02,16020,1491937622190	Wed Apr 12 03:07:02 CST 2017				
Total:5					

图 6-24

org.apache.maven.archetypes	maven-archetype-profiles	RELEASE
org.apache.maven.archetypes	maven-archetype-quickstart	RELEASE
org.apache.maven.archetypes	maven-archetype-site	RELEASE

图 6-25

项目名叫 callendpoint。如图 6-26 所示。

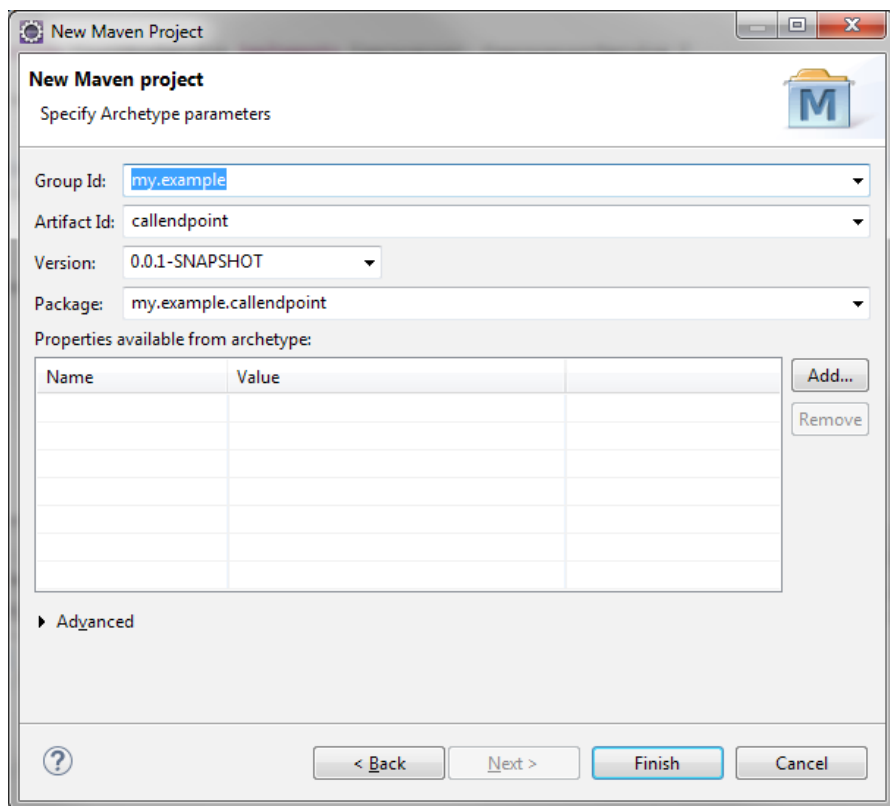


图 6-26

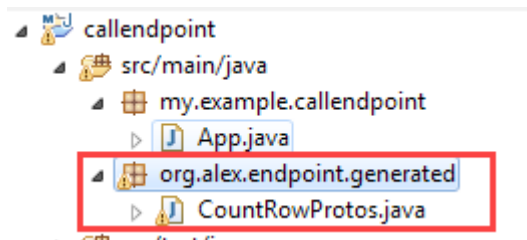


图 6-27



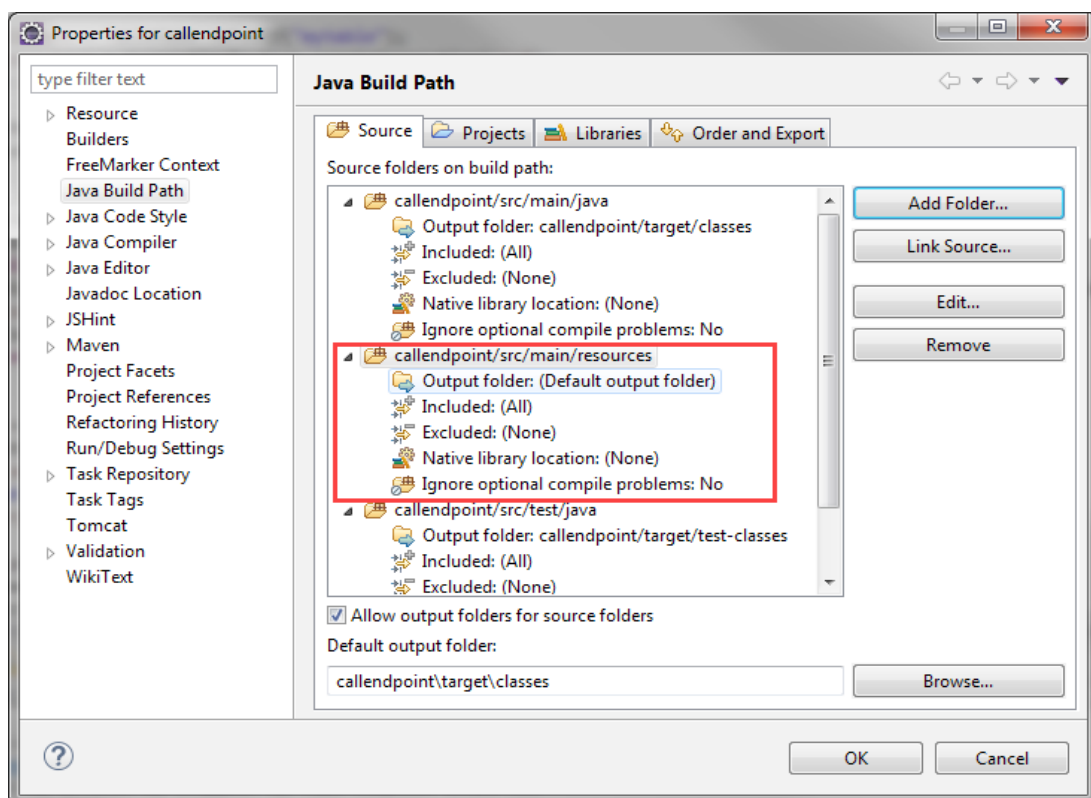


图 6-28

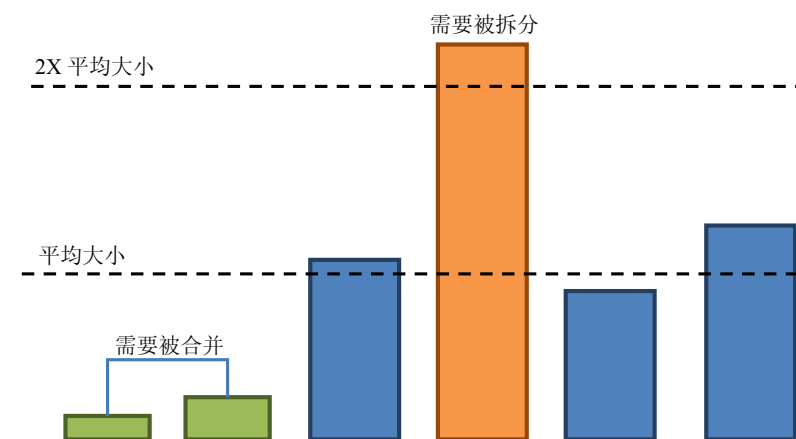


图 7-3

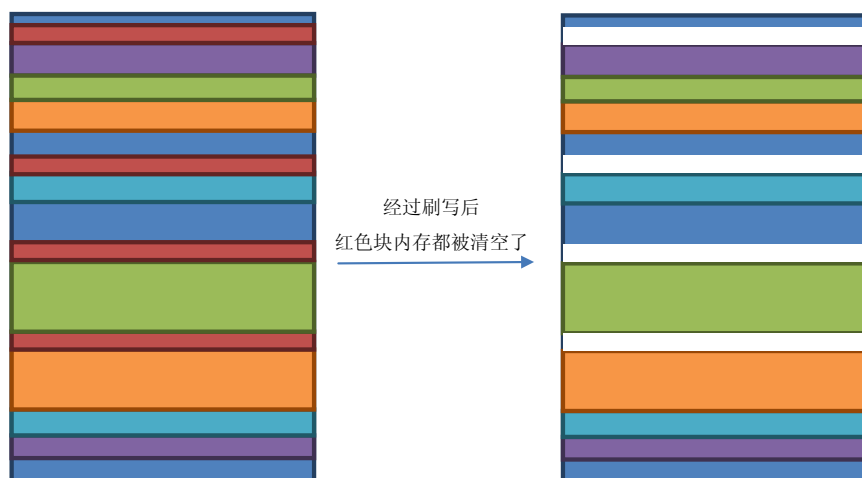


图 8-1

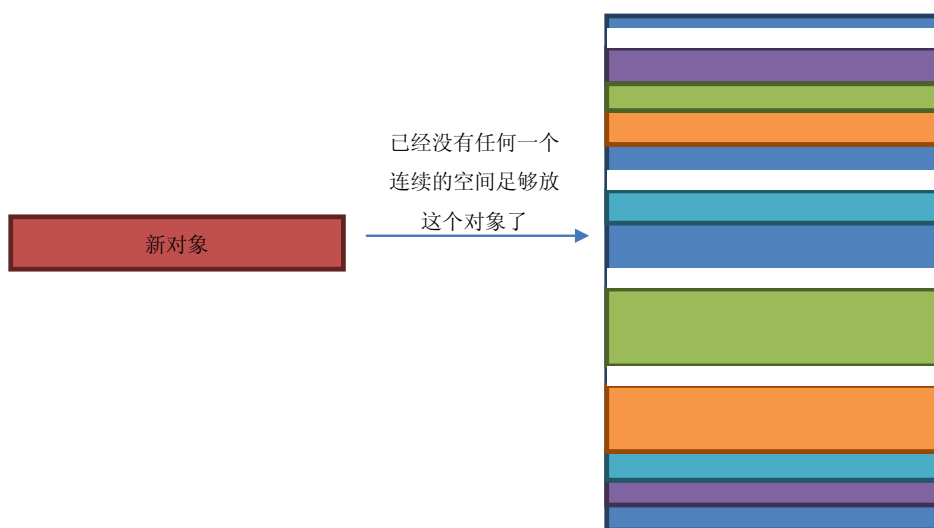


图 8-2



图 8-3

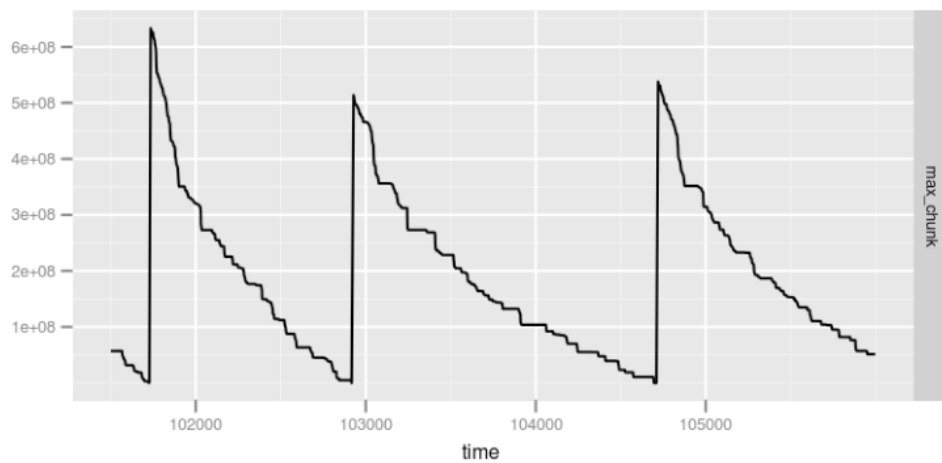


图 8-4

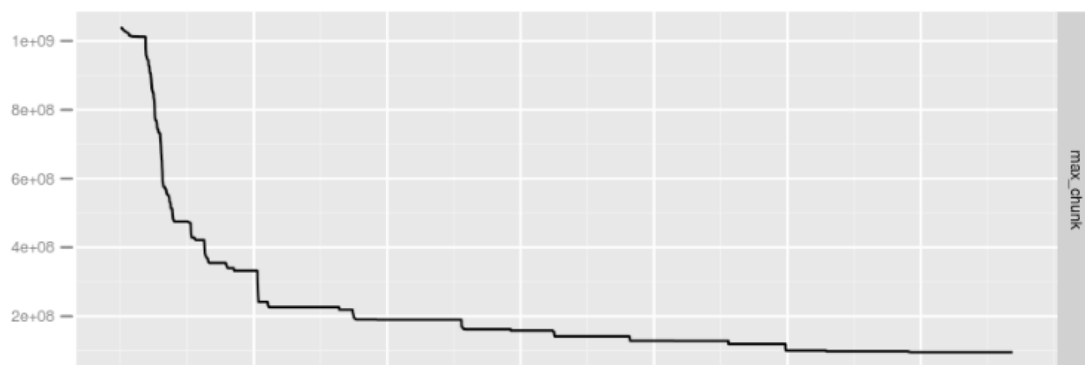


图 8-5

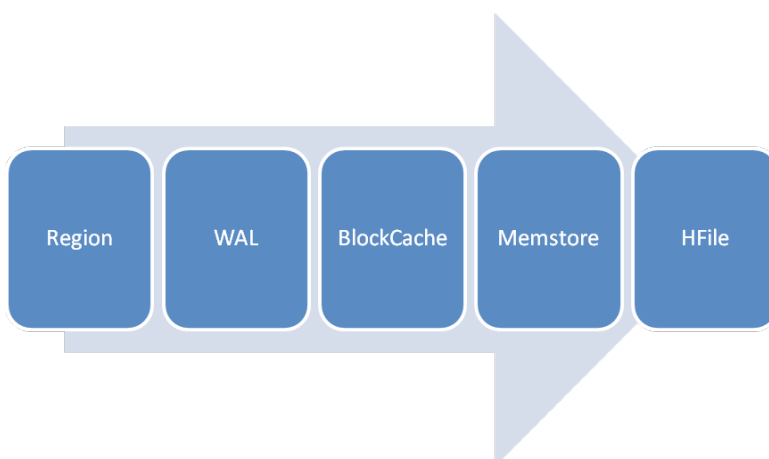


图 8-6

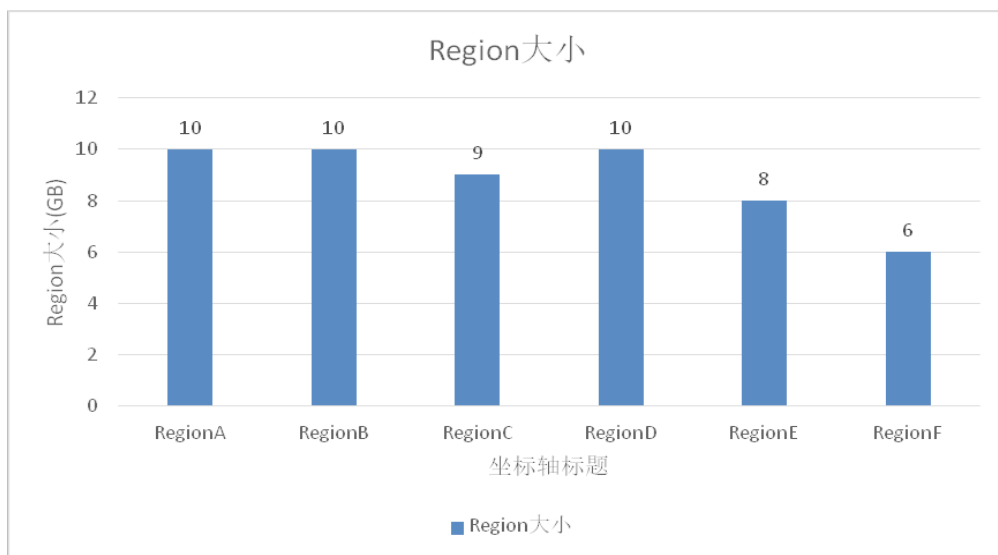


图 8-7

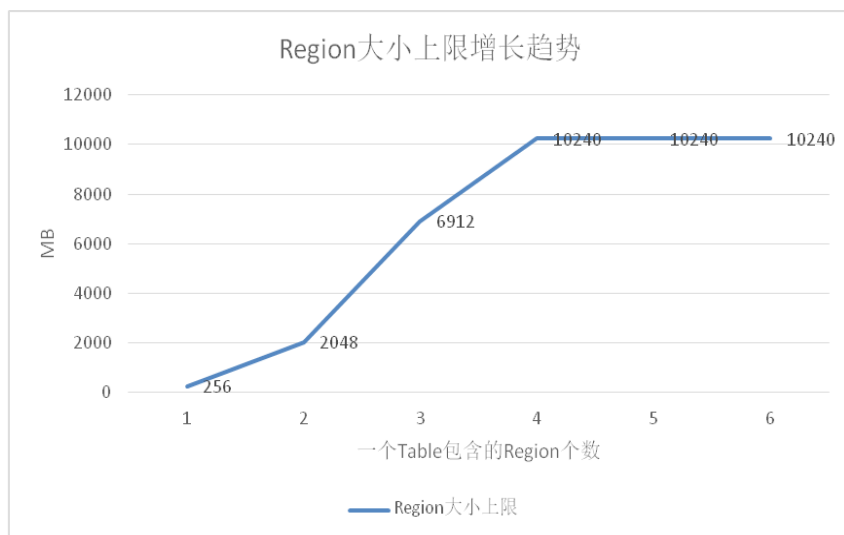
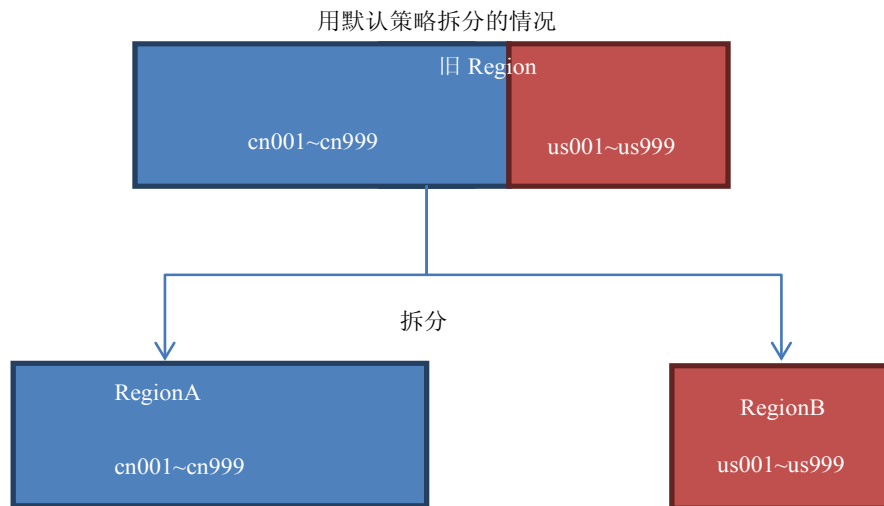
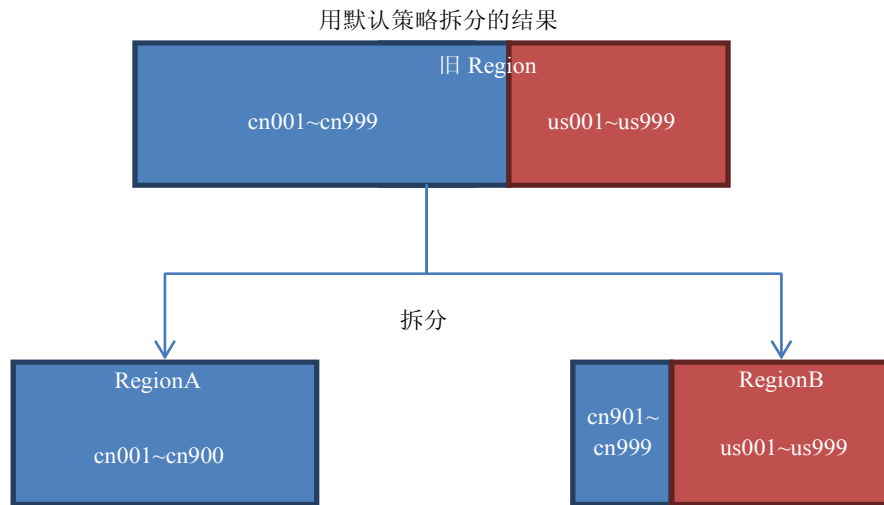


图 8-8



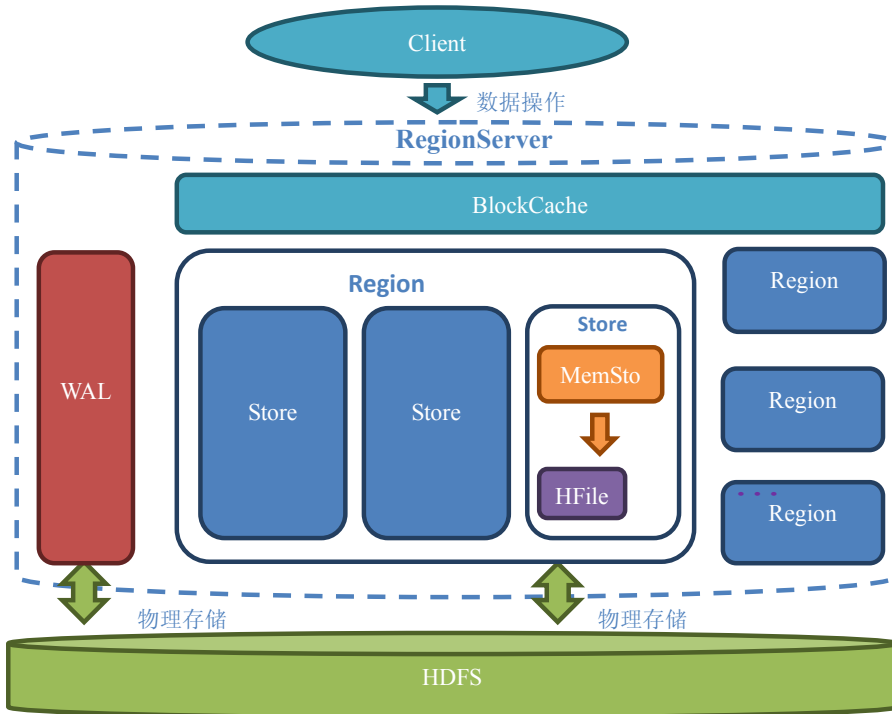


图 8-11

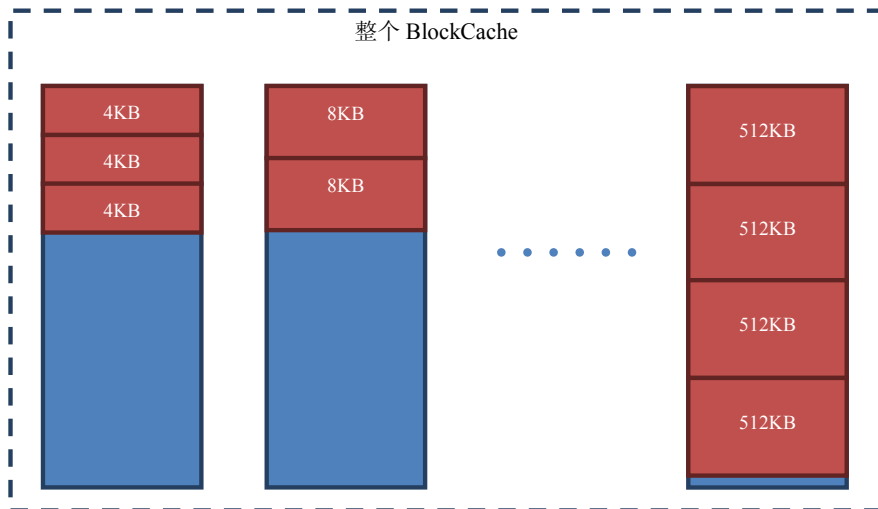


图 8-12

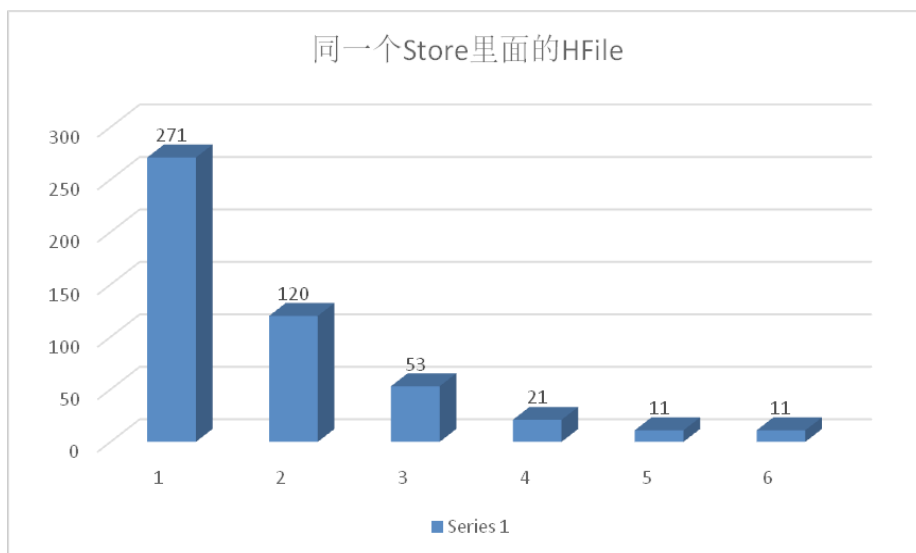


图 8-13

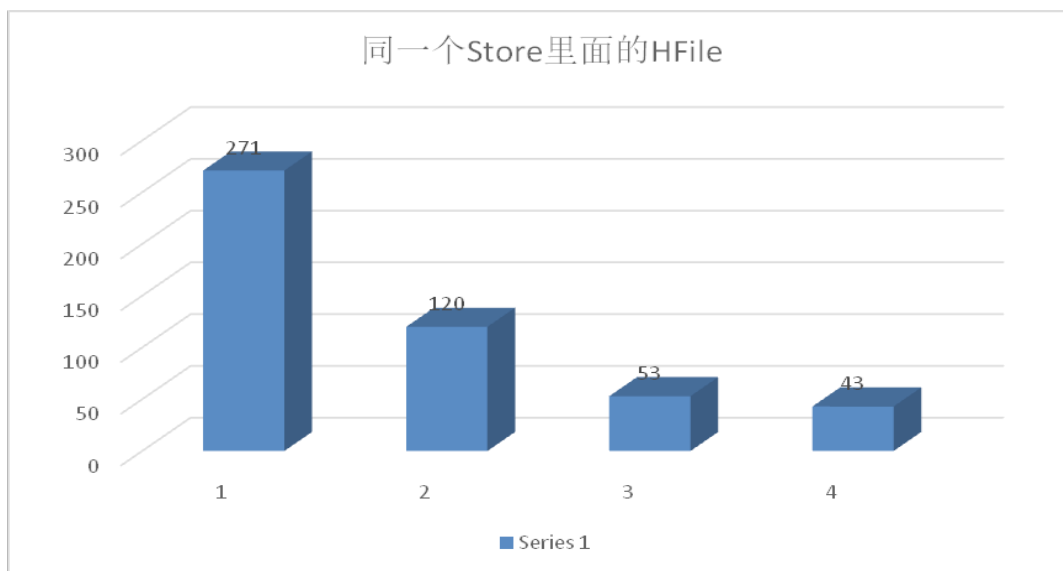


图 8-14

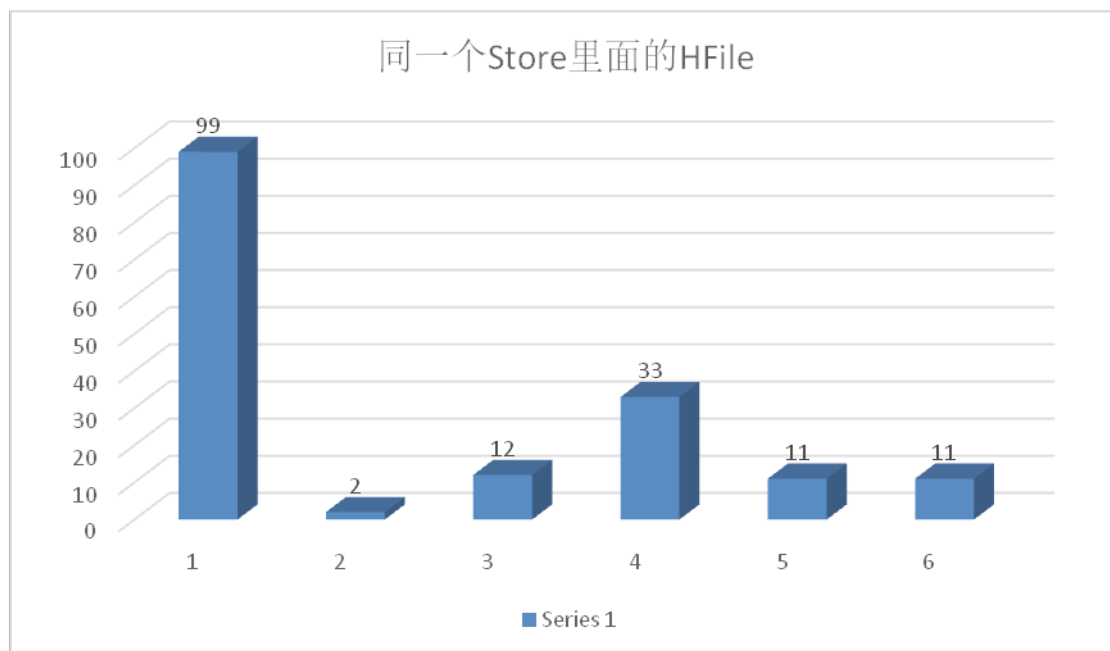


图 8-15

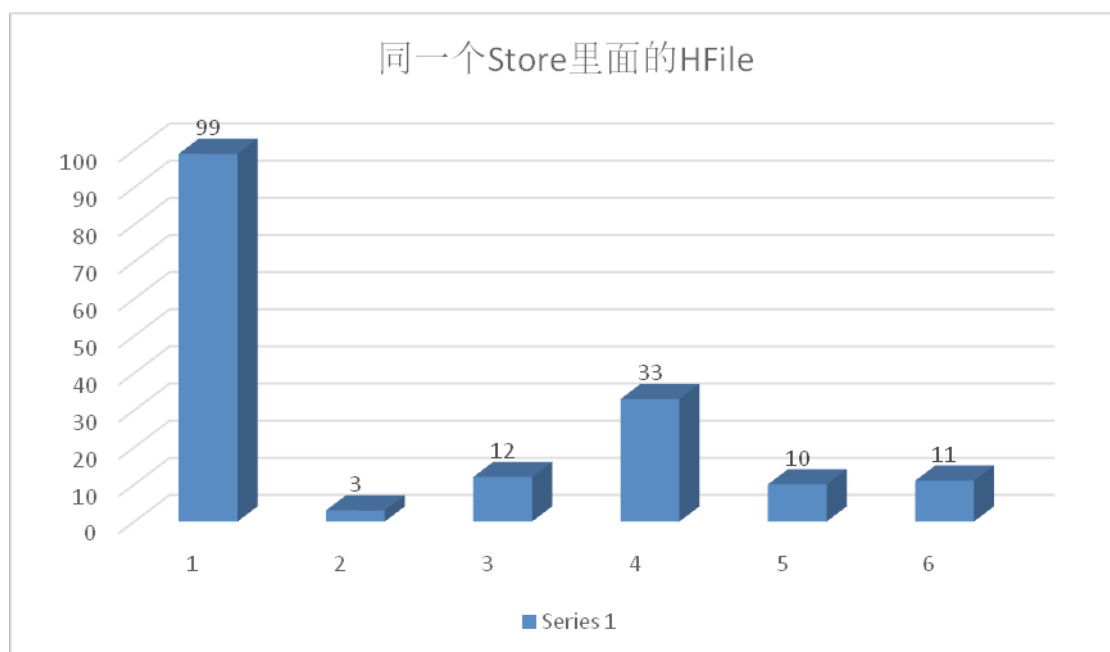


图 8-16



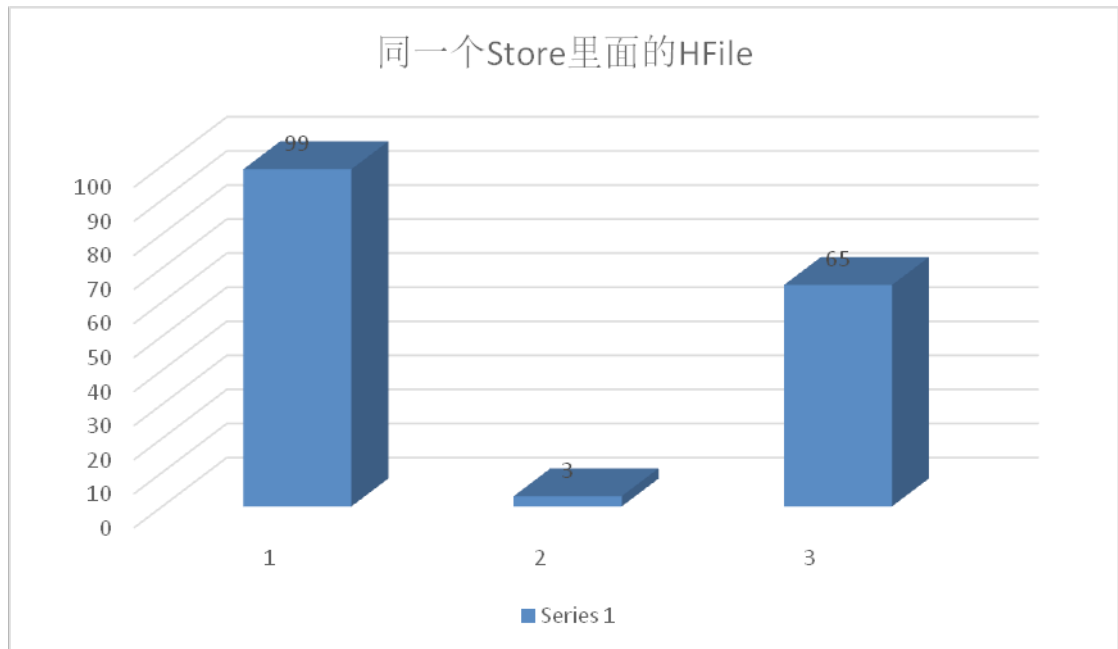


图 8-17

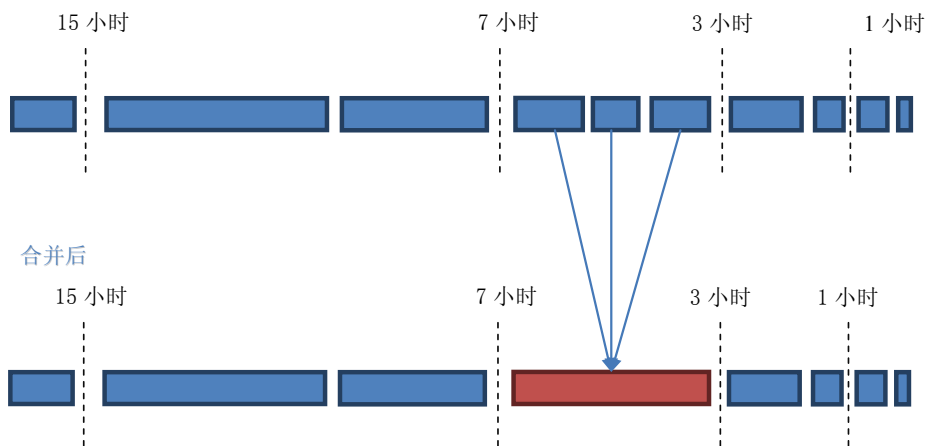


图 8-18

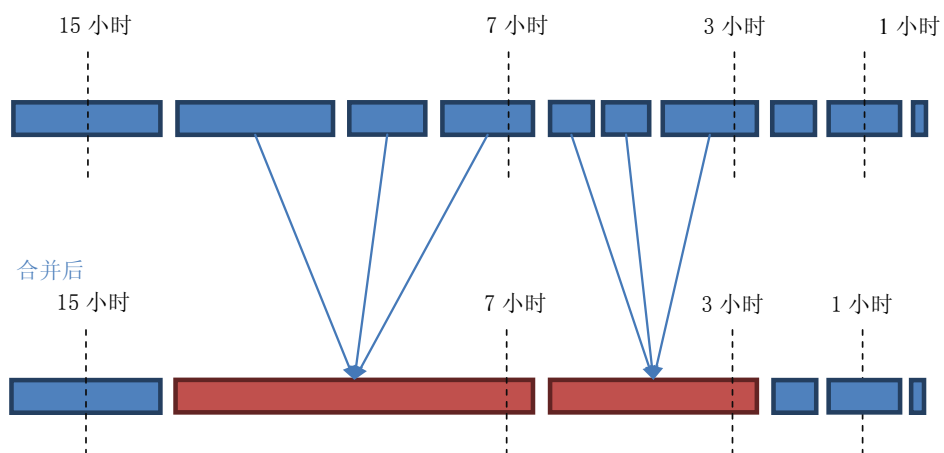


图 8-19

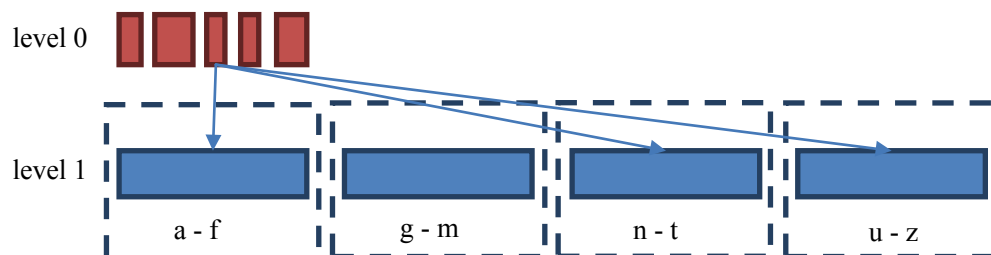


图 8-20

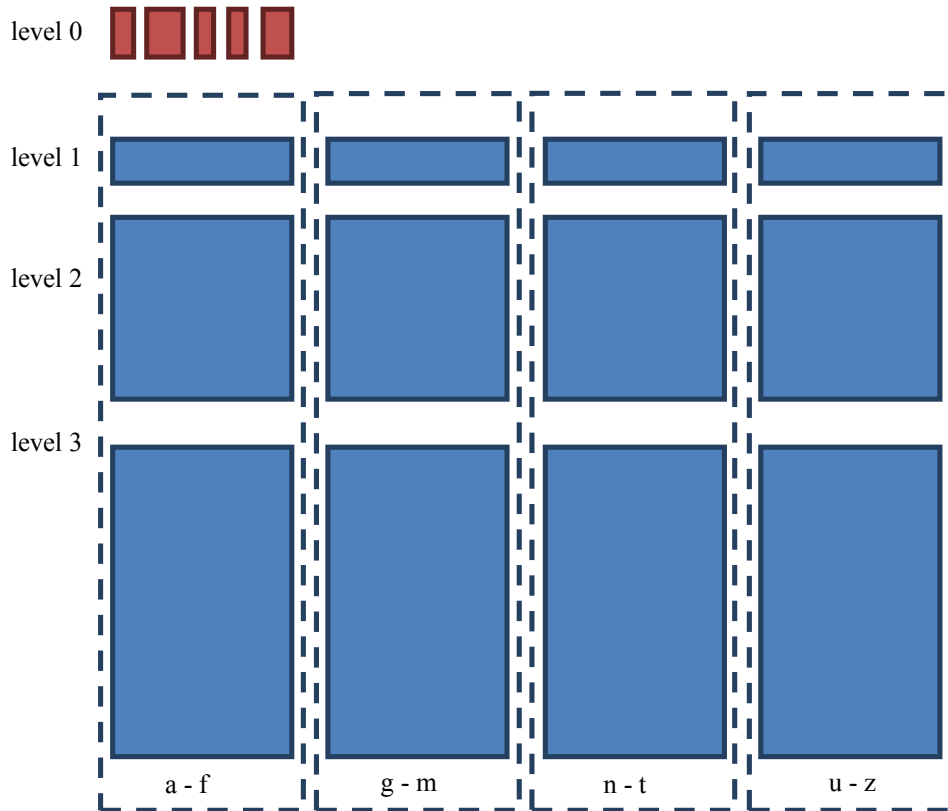


图 8-21

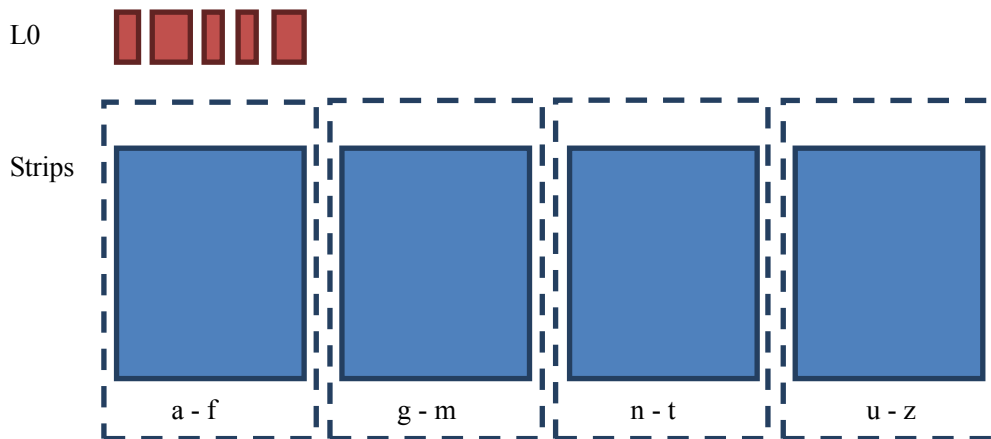


图 8-22

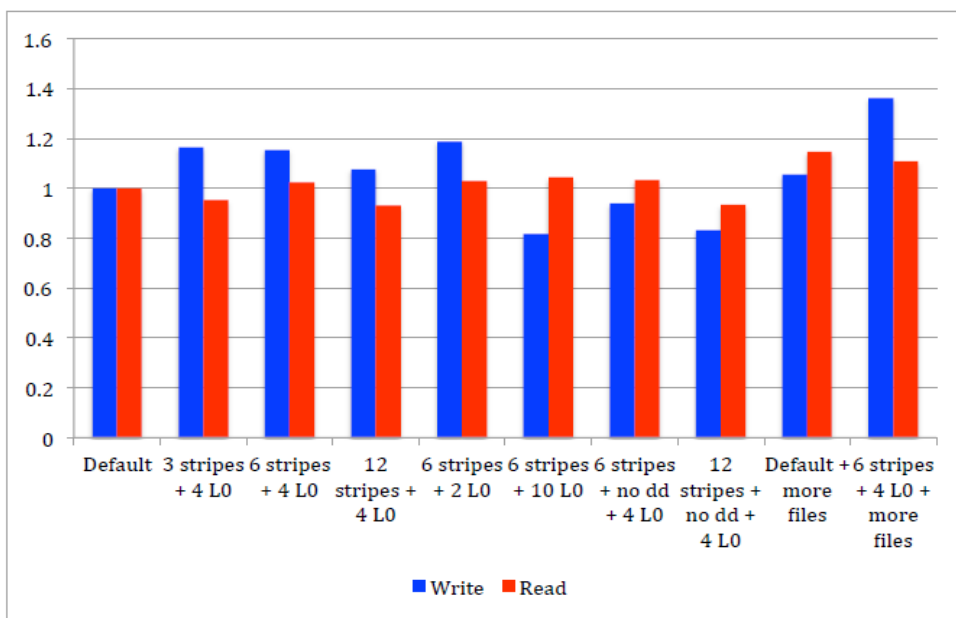


图 8-23

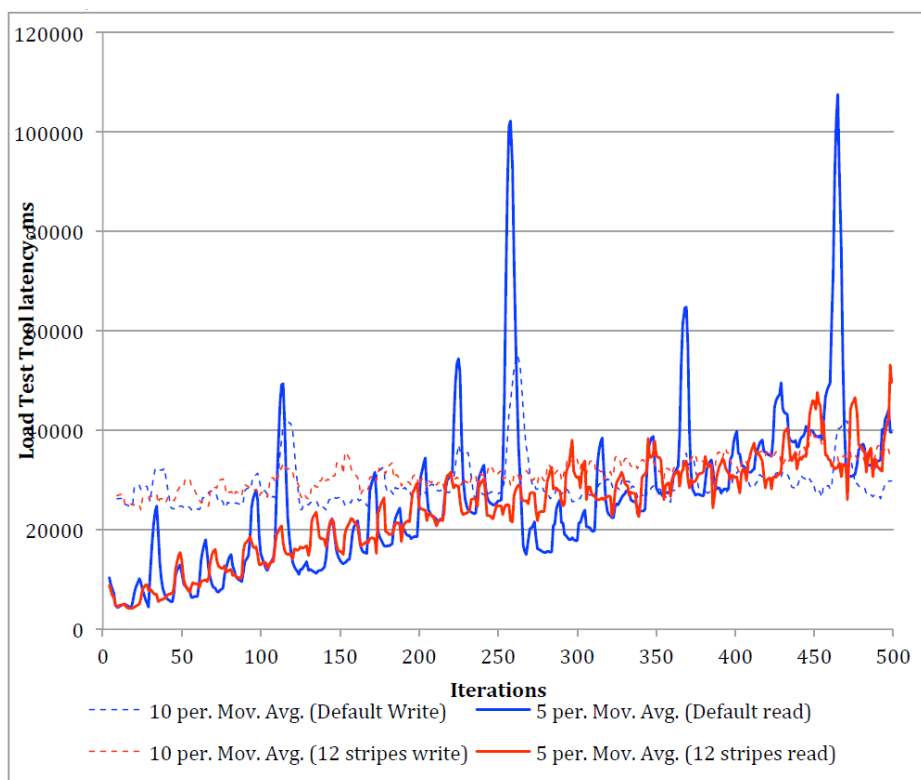


图 8-24

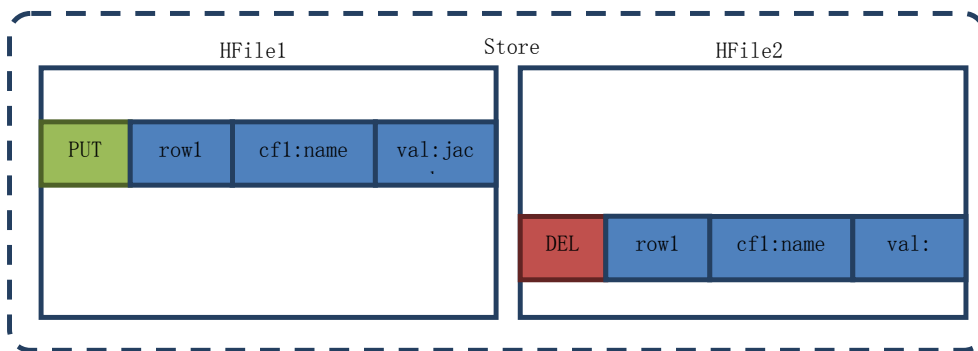


图 8-25

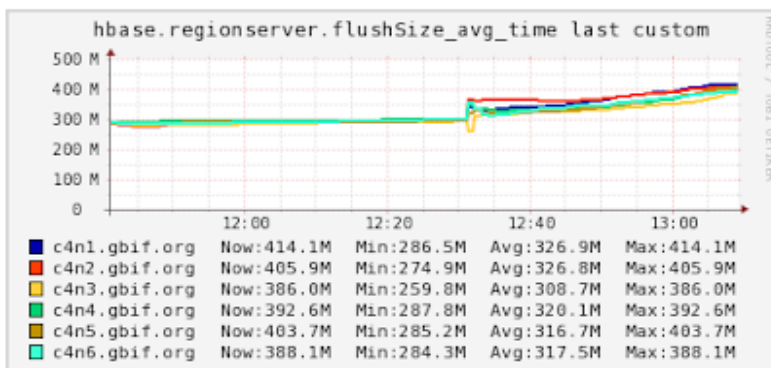


Figure 1: Average memstore flush size over time

图 8-26

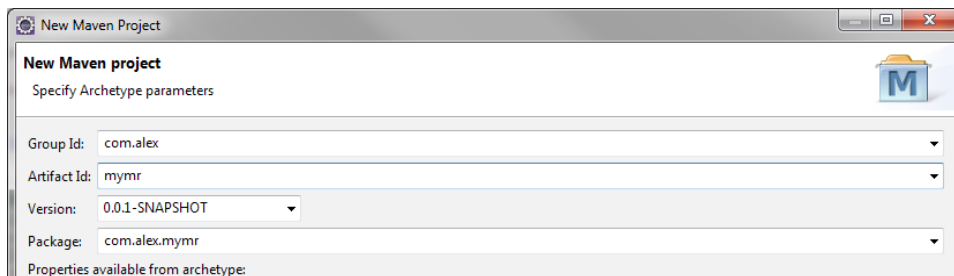


图 9-1

接下来，我们去修改 pom.xml 文件，增加对 hbase-server 的依赖。

```
<dependency>
  <groupId>org.apache.hbase</groupId>
```

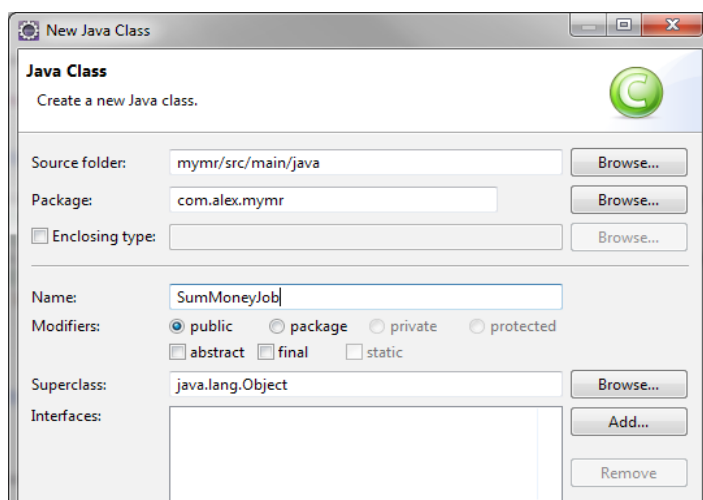


图 9-2

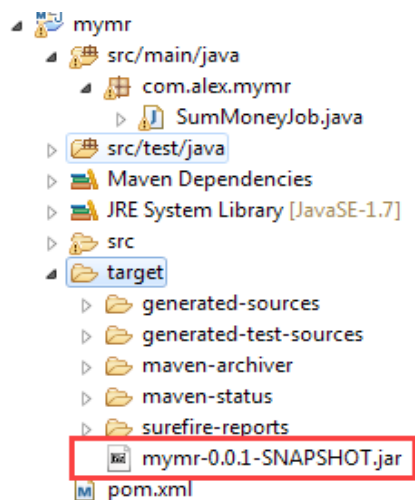


图 9-3