

*** April 14 ***

Research CouchDB – create AP Test scenario

1. create replication database

```
Long-MBP:~ longnguyen$ curl -vX POST http://52.34.101.10:5984/_replicate -d '{"source":"hello-world","target":"http://52.38.250.245:5984/hello-replica","continuous":true}'
* Trying 52.34.101.10...
* Connected to 52.34.101.10 (52.34.101.10) port 5984 (#0)
> POST /_replicate HTTP/1.1
> Host: 52.34.101.10:5984
> User-Agent: curl/7.43.0
> Accept: */*
> Content-Type: application/json
> Content-Length: 93
* upload completely sent off: 93 out of 93 bytes
< HTTP/1.1 500 Internal Server Error
< Server: CouchDB/1.6.1 (Erlang OTP/R14B04)
< Date: Thu, 14 Apr 2016 17:02:09 GMT
< Content-Type: text/plain; charset=utf-8
< Content-Length: 92
< Cache-Control: must-revalidate
<
{"error":"db_not_found","reason":"could not open http://52.38.250.245:5984/hello-replica/"}
* Connection #0 to host 52.34.101.10 left intact
Long-MBP:~ longnguyen$ curl -vX POST http://52.34.101.10:5984/_replicate -d '{"source":"hello-world","target":"http://52.38.250.245:5984/hello-replica","continuous":true,"create_target":true}' -H "Content-Type: application/json"
* Trying 52.34.101.10...
* Connected to 52.34.101.10 (52.34.101.10) port 5984 (#0)
> POST /_replicate HTTP/1.1
> Host: 52.34.101.10:5984
> User-Agent: curl/7.43.0
> Accept: */*
> Content-Type: application/json
> Content-Length: 114
* upload completely sent off: 114 out of 114 bytes
< HTTP/1.1 202 Accepted
< Server: CouchDB/1.6.1 (Erlang OTP/R14B04)
< Date: Thu, 14 Apr 2016 17:02:34 GMT
< Content-Type: text/plain; charset=utf-8
< Content-Length: 84
< Cache-Control: must-revalidate
<
{"ok":true,"local_id":"5ce269f9c688be65699fa13d2c51d5f4+continuous+create_target"}
* Connection #0 to host 52.34.101.10 left intact
Long-MBP:~ longnguyen$
```

```
curl -X PUT http://52.34.101.10:5984/hello-world/3 -d '{"name": "Nguyen"}'
```

2. insert some data to test replication

– insert to source database

Overview > hello-world

New Document Security... Compact & Cleanup... Delete Database...

Jump to: View: All documents Stale views

Key	Value
"1" ID: 1	{rev: "2-d1097437e0b8b060a71be5db912a50bf"}
"2" ID: 2	{rev: "1-dead3ae43503a9add9cb4495c4f9717a"}

Showing 1-2 of 2 rows

← Previous Page Rows per page: 10 Next Page →

Tools
Overview
Configuration
Replicator
Status

Documentation
Manual

Diagnostics
Verify Installation

Recent Databases
replicator
hello-world

Welcome to Admin Party!
Everyone is admin. [Fix this](#)

Futon on Apache CouchDB 1.6.1

– view the data in replica database (in another machine)

Overview > hello-replica

New Document Security... Compact & Cleanup... Delete Database...

Jump to: View: All documents Stale views

Key	Value
"1" ID: 1	{rev: "2-d1097437e0b8b060a71be5db912a50bf"}
"2" ID: 2	{rev: "1-dead3ae43503a9add9cb4495c4f9717a"}

Showing 1-2 of 2 rows

← Previous Page Rows per page: 10 Next Page →

Tools
Overview
Configuration
Replicator
Status

Documentation
Manual

Diagnostics
Verify Installation

Recent Databases
replicator
hello-replica

Welcome to Admin Party!
Everyone is admin. [Fix this](#)

Futon on Apache CouchDB 1.6.1

3. insert another data (id = 3), get it

```
[Long-MBP:~ longnguyen$ curl -X GET http://52.34.101.10:5984/hello-world/3
{"_id":"3", "_rev":"1-e5c701930ad47089a3e6af464c80de50", "name":"Nguyen"}]
```

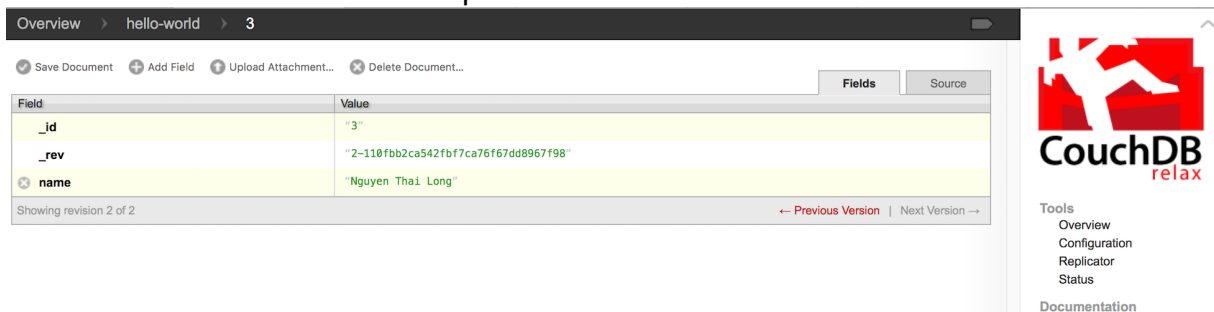
4. modify security group of replica machine to not received package from source

machine. the data base is in partition. update data id = 3 to test AP

- update data id 3

```
Long-MBP:~ longnguyen$ curl -X PUT http://52.34.101.10:5984/hello-world/3 -d '{"name": "Nguyen Thai Long", "_rev": "1-e5c701930ad47089a3e6af464c80de50"}'
{"ok":true,"id":"3","rev":"2-110fbb2ca542fbf7ca76f67dd8967f98"}
Long-MBP:~ longnguyen$
```

- data on source database after update



Overview > hello-world > 3

Save Document Add Field Upload Attachment... Delete Document...

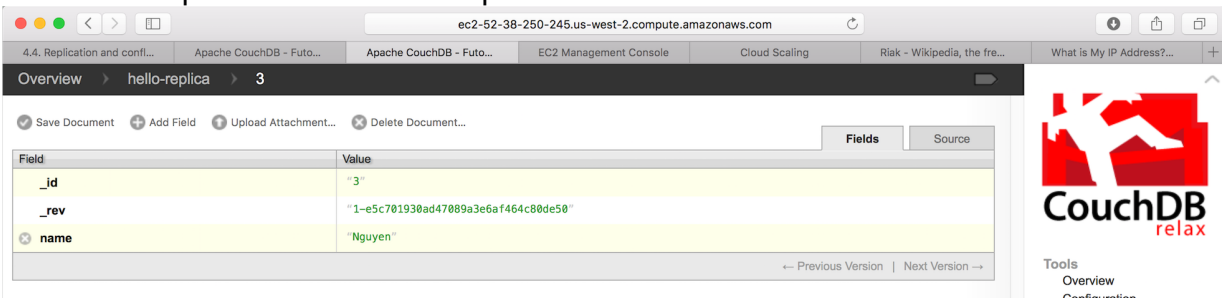
Field	Value
_id	"3"
_rev	"2-110fbb2ca542fbf7ca76f67dd8967f98"
name	"Nguyen Thai Long"

Showing revision 2 of 2 [← Previous Version](#) [Next Version →](#)

CouchDB relax

Tools
Overview
Configuration
Replicator
Status
Documentation

— data on replica database after update - data is still available but out of date



ec2-52-38-250-245.us-west-2.compute.amazonaws.com

4.4. Replication and confi... Apache CouchDB - Fut... Apache CouchDB - Fut... EC2 Management Console Cloud Scaling Riak - Wikipedia, the fre... What is My IP Address?...

Overview > hello-replica > 3

Save Document Add Field Upload Attachment... Delete Document...

Field	Value
_id	"3"
_rev	"1-e5c701930ad47089a3e6af464c80de50"
name	"Nguyen"

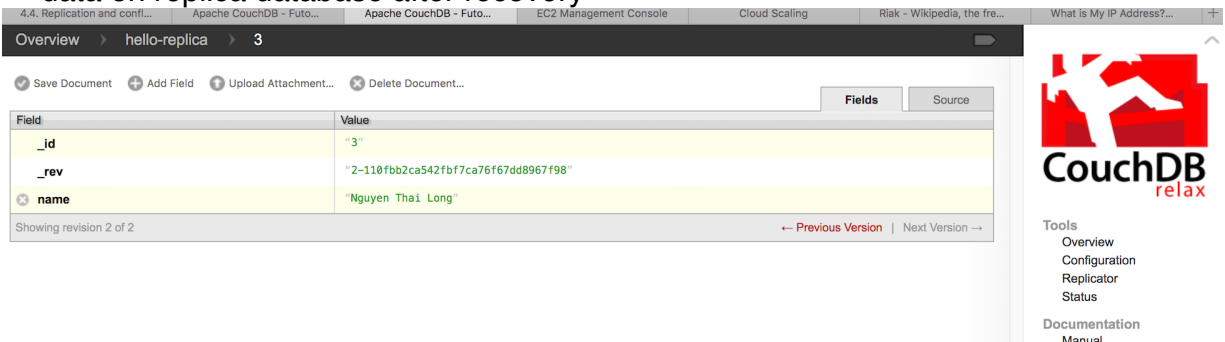
Showing revision 1 of 1 [← Previous Version](#) [Next Version →](#)

CouchDB relax

Tools
Overview
Configuration

4. roll back the security group for recovery

— data on replica database after recovery



4.4. Replication and confi... Apache CouchDB - Fut... Apache CouchDB - Fut... EC2 Management Console Cloud Scaling Riak - Wikipedia, the fre... What is My IP Address?...

Overview > hello-replica > 3

Save Document Add Field Upload Attachment... Delete Document...

Field	Value
_id	"3"
_rev	"2-110fbb2ca542fbf7ca76f67dd8967f98"
name	"Nguyen Thai Long"

Showing revision 2 of 2 [← Previous Version](#) [Next Version →](#)

CouchDB relax

Tools
Overview
Configuration
Replicator
Status
Documentation
Manual