

Without shutdown server

PUT

Client

Server response time 17:00:24:785 Added key : 1000 Value: 101

Server 1 is running at port 12345

17:00:24:563 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:00:24:572 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:572 Server 1 Acceptor log: Acceptor start to compare ID
17:00:24:573 Server 1 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:573 Server 1 Proposer log: received 1 servers replied with prepare ok
17:00:24:616 Server 1 Proposer log: received 2 servers replied with prepare ok
17:00:24:659 Server 1 Proposer log: received 3 servers replied with prepare ok
17:00:24:704 Server 1 Proposer log: received 4 servers replied with prepare ok
17:00:24:747 Server 1 Proposer log: received 5 servers replied with prepare ok
17:00:24:747 Server 1 Proposer log: received 5 servers replied with prepare ok, go to next phase-> accept
17:00:24:748 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:749 Server 1 Acceptor log: Acceptor start to compare ID
17:00:24:749 Server 1 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:749 Server 1 Proposer log: received 1 servers replied with accept ok
17:00:24:751 Server 1 Proposer log: received 2 servers replied with accept ok
17:00:24:753 Server 1 Proposer log: received 3 servers replied with accept ok
17:00:24:754 Server 1 Proposer log: received 4 servers replied with accept ok
17:00:24:756 Server 1 Proposer log: received 5 servers replied with accept ok
17:00:24:756 Server 1 Proposer log: received 5 servers replied with accept ok, go to next phase-> commit
17:00:24:757 Added key : 1000 Value: 101

Server 2 is running at port 12346

17:00:24:615 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:616 Server 2 Acceptor log: Acceptor start to compare ID
17:00:24:616 Server 2 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:750 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:750 Server 2 Acceptor log: Acceptor start to compare ID
17:00:24:750 Server 2 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:759 Added key : 1000 Value: 101

Server 3 is running at port 12347

17:00:24:658 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:659 Server 3 Acceptor log: Acceptor start to compare ID
17:00:24:659 Server 3 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:752 Server 3 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:752 Server 3 Acceptor log: Acceptor start to compare ID
17:00:24:752 Server 3 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:761 Added key : 1000 Value: 101

Server 4 is running at port 12348

17:00:24:703 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:704 Server 4 Acceptor log: Acceptor start to compare ID
17:00:24:704 Server 4 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:754 Server 4 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:754 Server 4 Acceptor log: Acceptor start to compare ID
17:00:24:754 Server 4 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:763 Added key : 1000 Value: 101

Server 5 is running at port 12349

17:00:24:746 Server 5 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:746 Server 5 Acceptor log: Acceptor start to compare ID
17:00:24:747 Server 5 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:756 Server 5 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:756 Server 5 Acceptor log: Acceptor start to compare ID
17:00:24:756 Server 5 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:766 Added key : 1000 Value: 101

GET

Server response time 17:15:00:563 Get Key: 1000 Value: 101

17:15:00:518 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:15:00:521 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:15:00:522 Server 1 Acceptor log: Acceptor start to compare ID
17:15:00:522 Server 1 Acceptor log: proposalId 2 is larger than current received Id 2 , accepted
17:15:00:522 Server 1 Proposer log: received 1 servers replied with prepare ok
17:15:00:524 Server 1 Proposer log: received 2 servers replied with prepare ok
17:15:00:527 Server 1 Proposer log: received 3 servers replied with prepare ok
17:15:00:531 Server 1 Proposer log: received 4 servers replied with prepare ok
17:15:00:533 Server 1 Proposer log: received 5 servers replied with prepare ok
17:15:00:534 Server 1 Proposer log: received 5 servers replied with prepare ok, go to next phase-> accept
17:15:00:534 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:15:00:534 Server 1 Acceptor log: Acceptor start to compare ID
17:15:00:535 Server 1 Acceptor log: proposalId 2 is larger than current received Id 2 , accepted
17:15:00:535 Server 1 Proposer log: received 1 servers replied with accept ok
17:15:00:536 Server 1 Proposer log: received 2 servers replied with accept ok
17:15:00:537 Server 1 Proposer log: received 3 servers replied with accept ok
17:15:00:538 Server 1 Proposer log: received 4 servers replied with accept ok
17:15:00:540 Server 1 Proposer log: received 5 servers replied with accept ok
17:15:00:540 Server 1 Proposer log: received 5 servers replied with accept ok, go to next phase-> commit
17:15:00:540 Get Key: 1000 Value: 101

Server 2 is running at port 12346

17:00:24:615 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:00:24:616 Server 2 Acceptor log: Acceptor start to compare ID
17:00:24:616 Server 2 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:750 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:00:24:750 Server 2 Acceptor log: Acceptor start to compare ID
17:00:24:750 Server 2 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:00:24:759 Added key : 1000 Value: 101
17:15:00:524 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:15:00:524 Server 2 Acceptor log: Acceptor start to compare ID
17:15:00:524 Server 2 Acceptor log: proposalId 2 is larger than current received Id 2 , accepted
17:15:00:536 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:15:00:536 Server 2 Acceptor log: Acceptor start to compare ID
17:15:00:536 Server 2 Acceptor log: proposalId 2 is larger than current received Id 2 , accepted
17:15:00:542 Get Key: 1000 Value: 101

DELETE

Server response time 17:16:12:792 Deleted key : 1000 Status: Sucess

```

17:16:12:744 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:16:12:746 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:16:12:746 Server 1 Acceptor log: Acceptor start to compare ID
17:16:12:746 Server 1 Acceptor log: proposalId 3 is larger than current received Id 3 , accepted
17:16:12:746 Server 1 Proposer log: received 1 servers replied with prepare ok
17:16:12:750 Server 1 Proposer log: received 2 servers replied with prepare ok
17:16:12:752 Server 1 Proposer log: received 3 servers replied with prepare ok
17:16:12:755 Server 1 Proposer log: received 4 servers replied with prepare ok
17:16:12:757 Server 1 Proposer log: received 5 servers replied with prepare ok
17:16:12:757 Server 1 Proposer log: received 5 servers replied with prepare ok, go to next phase-> accept
17:16:12:759 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:16:12:759 Server 1 Acceptor log: Acceptor start to compare ID
17:16:12:759 Server 1 Acceptor log: proposalId 3 is larger than current received Id 3 , accepted
17:16:12:759 Server 1 Proposer log: received 1 servers replied with accept ok
17:16:12:761 Server 1 Proposer log: received 2 servers replied with accept ok
17:16:12:763 Server 1 Proposer log: received 3 servers replied with accept ok
17:16:12:765 Server 1 Proposer log: received 4 servers replied with accept ok
17:16:12:766 Server 1 Proposer log: received 5 servers replied with accept ok
17:16:12:766 Server 1 Proposer log: received 5 servers replied with accept ok, go to next phase-> commit
17:16:12:768 Deleted key : 1000 Status: Success
17:16:12:749 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:16:12:749 Server 2 Acceptor log: Acceptor start to compare ID
17:16:12:749 Server 2 Acceptor log: proposalId 3 is larger than current received Id 3 , accepted
17:16:12:761 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:16:12:761 Server 2 Acceptor log: Acceptor start to compare ID
17:16:12:761 Server 2 Acceptor log: proposalId 3 is larger than current received Id 3 , accepted
17:16:12:769 Deleted key : 1000 Status: Success

```

Random shutdown server

```

clientOperation(client, "PUT", "1000", "101");
clientOperation(client, "GET", "1000", "");
clientOperation(client, "DELETE", "1000", "");

```

```

Server response time 17:21:11:297 Added key : 1000 Value: 101
Server response time 17:21:11:319 Get Key: 1000 Value: 101
Server response time 17:21:11:341 Deleted key : 1000 Status: Success

```

17:21:11:255 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:21:11:256 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:256 Server 1 Acceptor log: Acceptor start to compare ID
17:21:11:256 Server 1 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:256 Server 1 Proposer log: received 1 servers replied with prepare ok
17:21:11:259 Server 1 Proposer log: received 2 servers replied with prepare ok
17:21:11:263 Server 1 Proposer log: received 3 servers replied with prepare ok
17:21:11:263 Server 1 Proposer log: received 3 servers replied with prepare ok, go to next phase-> accept
17:21:11:265 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:265 Server 1 Acceptor log: Acceptor start to compare ID
17:21:11:265 Server 1 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:265 Server 1 Proposer log: received 1 servers replied with accept ok
17:21:11:266 Server 1 Proposer log: received 2 servers replied with accept ok
17:21:11:268 Server 1 Proposer log: received 3 servers replied with accept ok
17:21:11:271 Server 1 Proposer log: received 4 servers replied with accept ok
17:21:11:271 Server 1 Proposer log: received 4 servers replied with accept ok, go to next phase-> commit
17:21:11:272 Added key : 1000 Value: 101
17:21:11:298 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:21:11:300 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:300 Server 1 Acceptor log: Acceptor start to compare ID
17:21:11:300 Server 1 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:300 Server 1 Proposer log: received 1 servers replied with prepare ok
17:21:11:302 Server 1 Proposer log: received 2 servers replied with prepare ok
17:21:11:303 Server 1 Proposer log: received 3 servers replied with prepare ok
17:21:11:306 Server 1 Proposer log: received 4 servers replied with prepare ok
17:21:11:306 Server 1 Proposer log: received 4 servers replied with prepare ok, go to next phase-> accept
17:21:11:307 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:307 Server 1 Acceptor log: Acceptor start to compare ID
17:21:11:307 Server 1 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:308 Server 1 Proposer log: received 1 servers replied with accept ok
17:21:11:309 Server 1 Proposer log: received 2 servers replied with accept ok
17:21:11:310 Server 1 Proposer log: received 3 servers replied with accept ok
17:21:11:313 Server 1 Proposer log: received 4 servers replied with accept ok
17:21:11:313 Server 1 Proposer log: received 4 servers replied with accept ok, go to next phase-> commit
17:21:11:314 Get Key: 1000 Value: 101
17:21:11:320 Server 1 Proposer log: Proposer send vote to Acceptor- phase prepare
17:21:11:321 Server 1 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:321 Server 1 Acceptor log: Acceptor start to compare ID
17:21:11:321 Server 1 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:321 Server 1 Proposer log: received 1 servers replied with prepare ok
17:21:11:322 Server 1 Proposer log: received 2 servers replied with prepare ok
17:21:11:323 Server 1 Proposer log: received 3 servers replied with prepare ok
17:21:11:326 Server 1 Proposer log: received 4 servers replied with prepare ok
17:21:11:326 Server 1 Proposer log: received 4 servers replied with prepare ok, go to next phase-> accept
17:21:11:327 Server 1 Acceptor log: Acceptor receive vote from Proposer: accept phase

17:21:11:266 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:266 Server 2 Acceptor log: Acceptor start to compare ID
17:21:11:266 Server 2 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:273 Added key : 1000 Value: 101
17:21:11:301 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:301 Server 2 Acceptor log: Acceptor start to compare ID
17:21:11:301 Server 2 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:309 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:309 Server 2 Acceptor log: Acceptor start to compare ID
17:21:11:309 Server 2 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:315 Get Key: 1000 Value: 101
17:21:11:322 Server 2 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:322 Server 2 Acceptor log: Acceptor start to compare ID
17:21:11:322 Server 2 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:329 Server 2 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:329 Server 2 Acceptor log: Acceptor start to compare ID
17:21:11:329 Server 2 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:336 Deleted key : 1000 Status: Success

17:21:08:650 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:650 Server 3 Acceptor log: Acceptor start to compare ID
17:21:08:650 Server 3 Acceptor log: proposalId 4 is larger than current received Id 4 , accepted
17:21:08:676 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:676 Server 3 Acceptor log: Acceptor start to compare ID
17:21:08:676 Server 3 Acceptor log: proposalId 5 is larger than current received Id 5 , accepted
17:21:08:684 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:685 Server 3 Acceptor log: Acceptor start to compare ID
17:21:08:685 Server 3 Acceptor log: proposalId 6 is larger than current received Id 6 , accepted
17:21:11:259 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:259 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:259 Server 3 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:268 Server 3 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:268 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:268 Server 3 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:276 Added key : 1000 Value: 101
17:21:11:303 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:303 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:303 Server 3 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:310 Server 3 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:310 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:310 Server 3 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:317 Get Key: 1000 Value: 101
17:21:11:323 Server 3 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:323 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:323 Server 3 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:330 Server 3 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:330 Server 3 Acceptor log: Acceptor start to compare ID
17:21:11:331 Server 3 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:338 Deleted key : 1000 Status: Success

17:21:05:826 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:05:827 Server 4 Acceptor log: Acceptor start to compare ID
17:21:05:827 Server 4 Acceptor log: proposalId 1 is larger than current received Id 1 , accepted
17:21:05:872 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:05:873 Server 4 Acceptor log: Acceptor start to compare ID
17:21:05:873 Server 4 Acceptor log: proposalId 2 is larger than current received Id 2 , accepted
17:21:05:882 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:05:882 Server 4 Acceptor log: Acceptor start to compare ID
17:21:05:882 Server 4 Acceptor log: proposalId 3 is larger than current received Id 3 , accepted
17:21:07:633 Server 4 Acceptor log: going to sleep
17:21:08:652 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:652 Server 4 Acceptor log: is sleeping, can't process
17:21:08:677 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:677 Server 4 Acceptor log: is sleeping, can't process
17:21:08:686 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:08:686 Server 4 Acceptor log: is sleeping, can't process
17:21:11:261 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:261 Server 4 Acceptor log: is sleeping, can't process
17:21:11:269 Server 4 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:269 Server 4 Acceptor log: is sleeping, can't process
17:21:11:278 Added key : 1000 Value: 101
17:21:11:304 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:304 Server 4 Acceptor log: is sleeping, can't process
17:21:11:312 Server 4 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:312 Server 4 Acceptor log: is sleeping, can't process
17:21:11:318 Get Key: 1000 Value: 101
17:21:11:325 Server 4 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:325 Server 4 Acceptor log: is sleeping, can't process
17:21:11:332 Server 4 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:332 Server 4 Acceptor log: is sleeping, can't process
17:21:11:339 Deleted key : 1000 Status: Success

17:21:11:263 Server 5 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:263 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:263 Server 5 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:271 Server 5 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:271 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:271 Server 5 Acceptor log: proposalId 7 is larger than current received Id 7 , accepted
17:21:11:280 Added key : 1000 Value: 101
17:21:11:306 Server 5 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:306 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:306 Server 5 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:313 Server 5 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:313 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:313 Server 5 Acceptor log: proposalId 8 is larger than current received Id 8 , accepted
17:21:11:319 Get Key: 1000 Value: 101
17:21:11:326 Server 5 Acceptor log: Acceptor receive vote from Proposer: prepare phase
17:21:11:326 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:326 Server 5 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:333 Server 5 Acceptor log: Acceptor receive vote from Proposer: accept phase
17:21:11:334 Server 5 Acceptor log: Acceptor start to compare ID
17:21:11:334 Server 5 Acceptor log: proposalId 9 is larger than current received Id 9 , accepted
17:21:11:340 Deleted key : 1000 Status: Success