

Getting Started



You can view a full digital version of this guide with further detail at:

https://rebrand.ly/1ck5dj

- 1. Go to ProvenDB.com and sign up for a free account, once you're in the dashboard, create your new ProvenDB service (this may take some time).
- 2. In the mean time download our ProvenDB Shell Helpers, these integrate with the native MongoDB Shell. You can download these from https://rebrand.ly/q5jtok
- 4. Now connect to one of our premade services, the URI will be in the following format:

```
# On Linux and Mac
export BID=NN # Where NN is your builder ID, for example 01, 02 03 etc...
export PDB_DB=tst_f$BID
export PDB_URI=mongodb://fest:fest@provendb_tst_f$BID.provendb.io/$PDB_DB?ssl=true

# Windows
set BID=NN # Where NN is your builder ID, for example 01, 02 03 etc...
set PDB_DB=tst_f%BID%
set PDB_URI=mongodb://fest:fest@provendb_tst_f%BID%.provendb.io/%PDB_DB%?ssl=true
```

Working with Versions



First lets check what version we are working on.

```
db.getVersion()

CR db.runCommand({getVersion: 1})

Let's have a look at version 5

db.setVersion(4)

OR db.runCommand({setVersion: 4})

Let's return to the latest version.

db.setVersion()

OR db.runCommand({setVersion: 4})
```

Point in time history



By leveraging our versioning system, we can see the whole history of a document:

Using MongoFiles



Let's add some data we want to prove. In our case we'll use MongoFile to add our source code, but you can simply run **db.test.insertOne({ ... })** instead if you like.

```
# On Mac or Linux
mongofiles --uri $PDB_URI --db $PDB_DB put myFiles.tgz
# On Windows
mongofiles --uri %PDB_URI% --db %PDB_DB% put myFiles.tgz
```

Working with Proofs



Let's look at the file we want to prove.

```
db.fs.files.find({}, fileName: 1)
```

Great, what version does this file exist in?

```
db.getVersion()
OR db.runCommand({getVersion: 1})
```

Now create a new proof for this version.

```
db.submitProof(12) OR db.runCommand({submitProof: 12})
```

Let's look at what a previously completed proof looks like.

We can even get the proof information for a single document.

```
db.getDocumentProof('accounts',
{name: 'Guy'}, 4)

db.runCommand({getDocumentProof:
    {collection: 'accounts', filter:
    {name: 'Guy'}, version: 4}})
```

And finally we will verify that our data hasn't been tampered with

```
db.verifyProof(4)
OR db.runCommand({verifyProof: 4})
```

Next Steps!



Congratulations, you've just become a Blockchain Developer! And the best thing is that if you already knew MongoDB, you know ProvenDB.

But if you need a little help getting started, here are a few places to begin:

- · View our documentation at ProvenDB.Readme.io.
- Read some of our blogs and guides at Medium.com/ProvenDB.
- See our open source sample application at ProvenDocs.com.