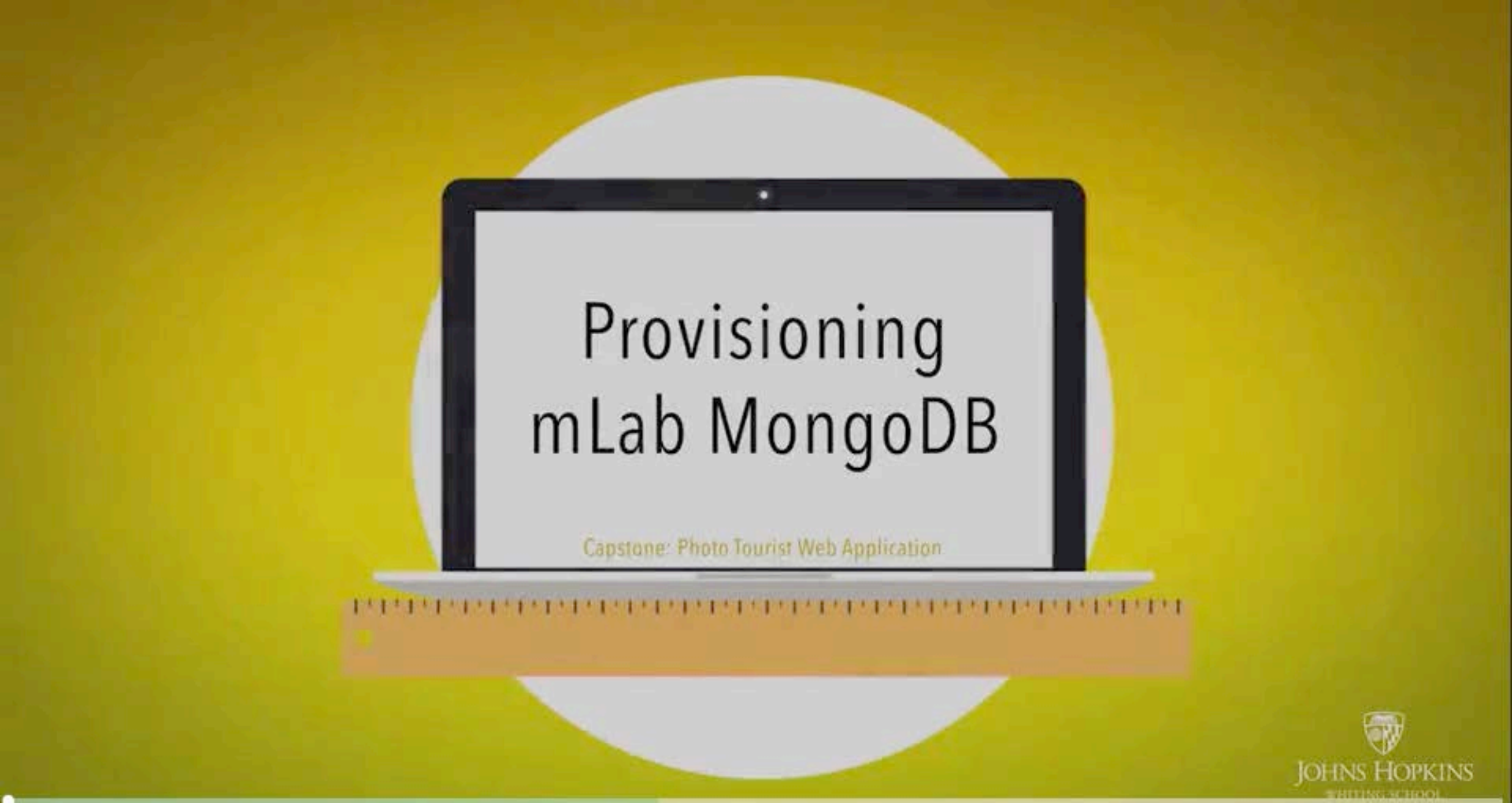
Provisioning
mLab MongoDB
Capstone: Photo Tourist Web Application
JOHNS HOPKINS

In this lecture, we will discuss…

- ✧ Provisioning MongoDB from mLab
  - staging
  - production

MongoDB Hosting: Database

ObjectLabs Corporation [US] | https://mlab.com

mLab

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mLab's Database-as-a-Service proudly powers over **400,000** MongoDB deployments on AWS, Azure, and Google

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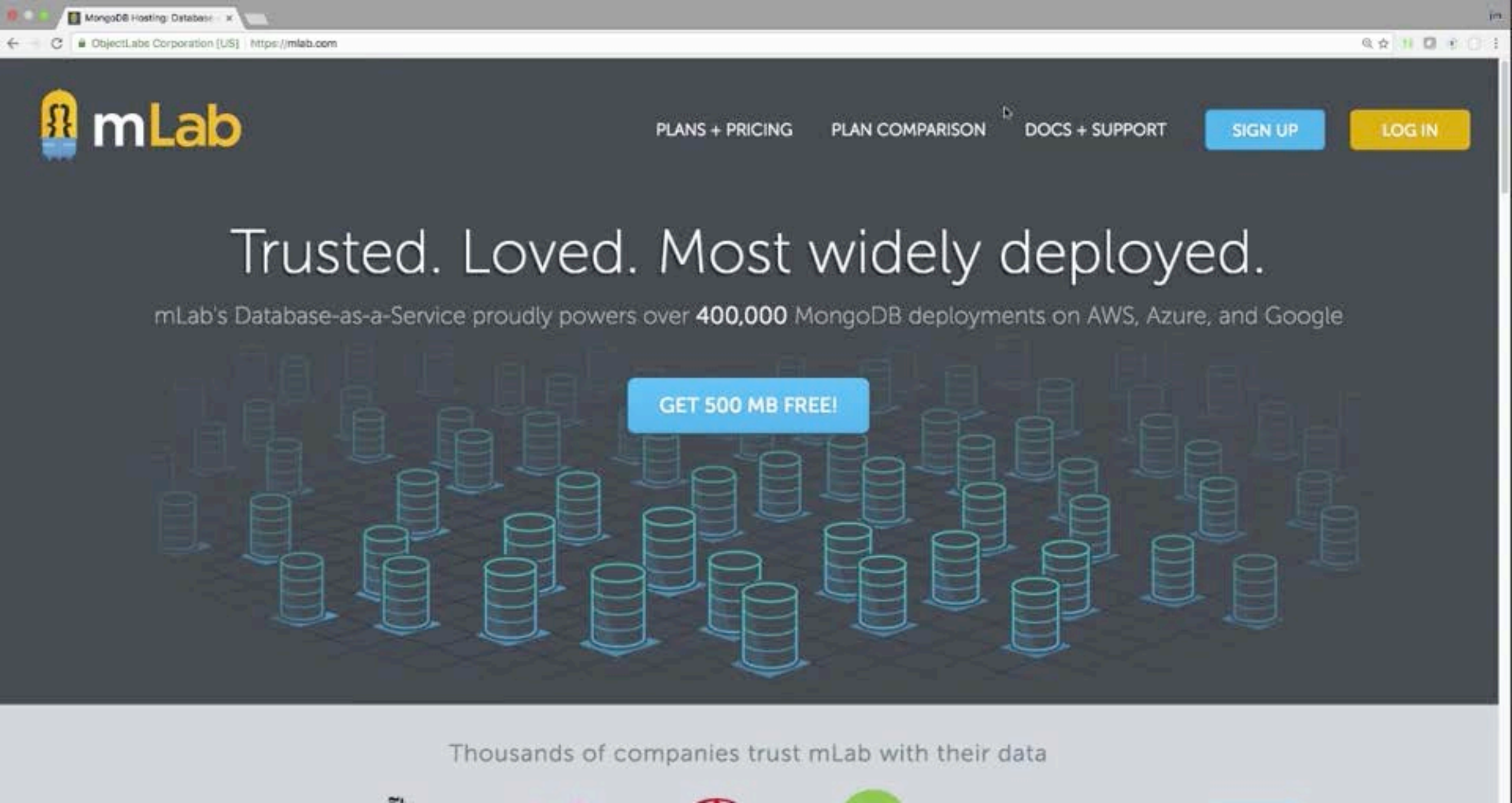
Thousands of companies trust mLab with their data

FOX | The New York Times | Lyft | TOYOTA | Whole Foods | CONDÉ NAST | SAP

MongoDB in your choice of cloud. It's this easy.


MongoDB Hosting: Database
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https://mlab.com
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PLAN COMPARISON
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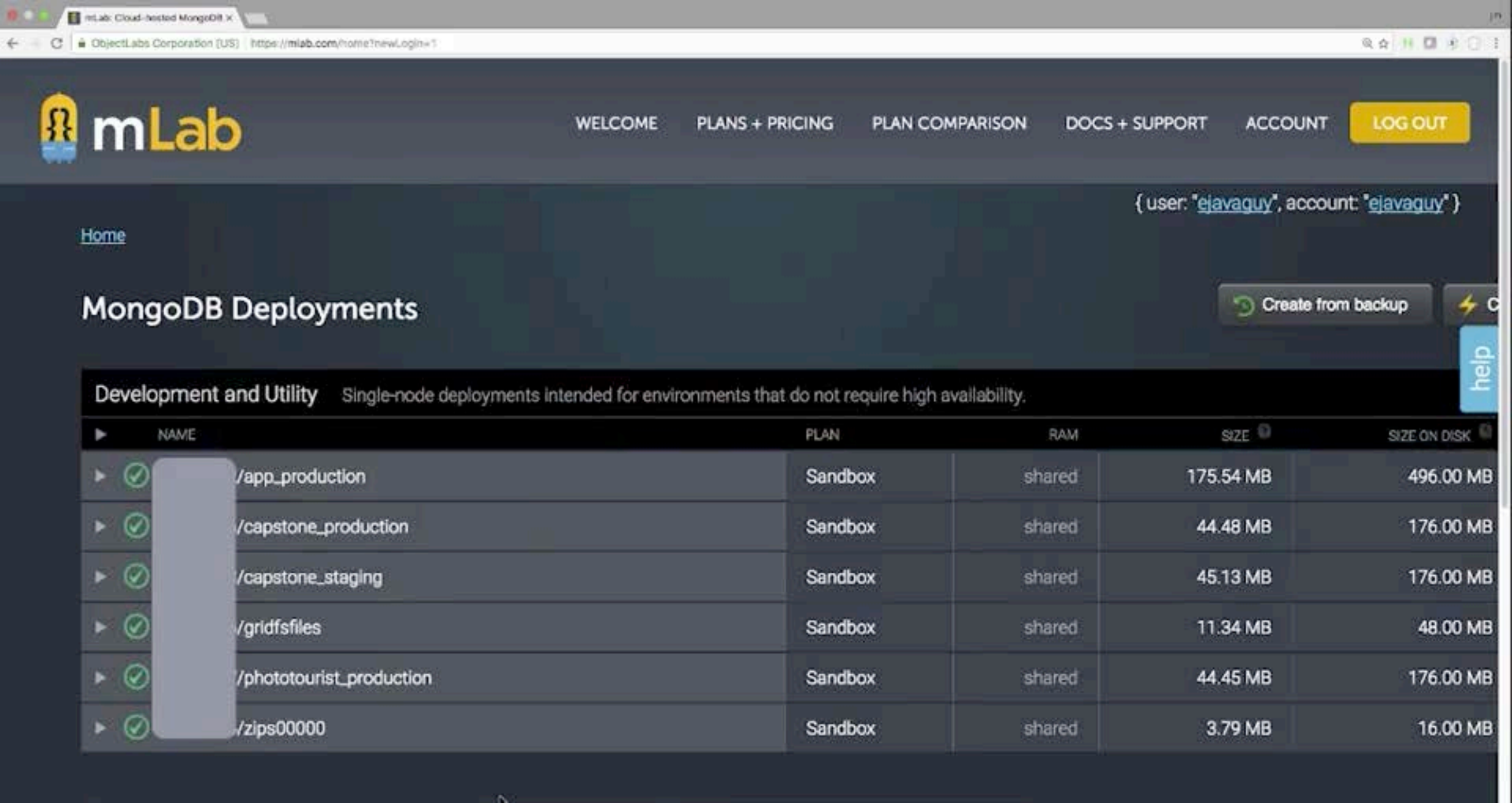
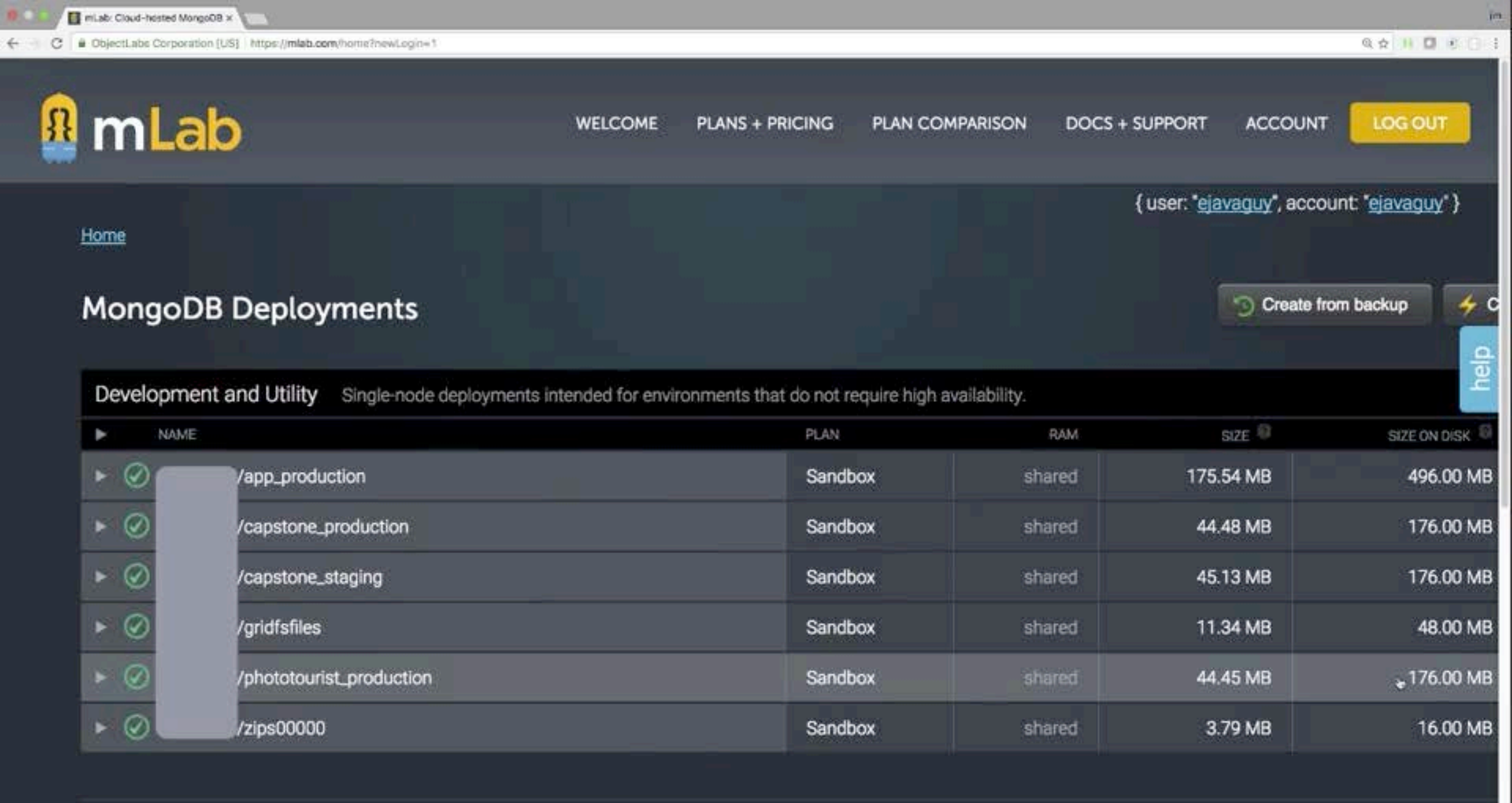

mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home
MongoDB Deployments
Create from backup
help
Development and Utility
Single-node deployments intended for environments that do not require high availability.
NAME
PLAN
RAM
SIZE
SIZE ON DISK
/app_production
Sandbox
shared
175.54 MB
496.00 MB
/capstone_production
Sandbox
shared
44.48 MB
176.00 MB
/capstone_staging
Sandbox
shared
45.13 MB
176.00 MB
/gridfsfiles
Sandbox
shared
11.34 MB
48.00 MB
/phototourist_production
Sandbox
shared
44.45 MB
176.00 MB
/zips00000
Sandbox
shared
3.79 MB
16.00 MB


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/home?newLogin=1
mLab
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PLANS + PRICING
PLAN COMPARISON
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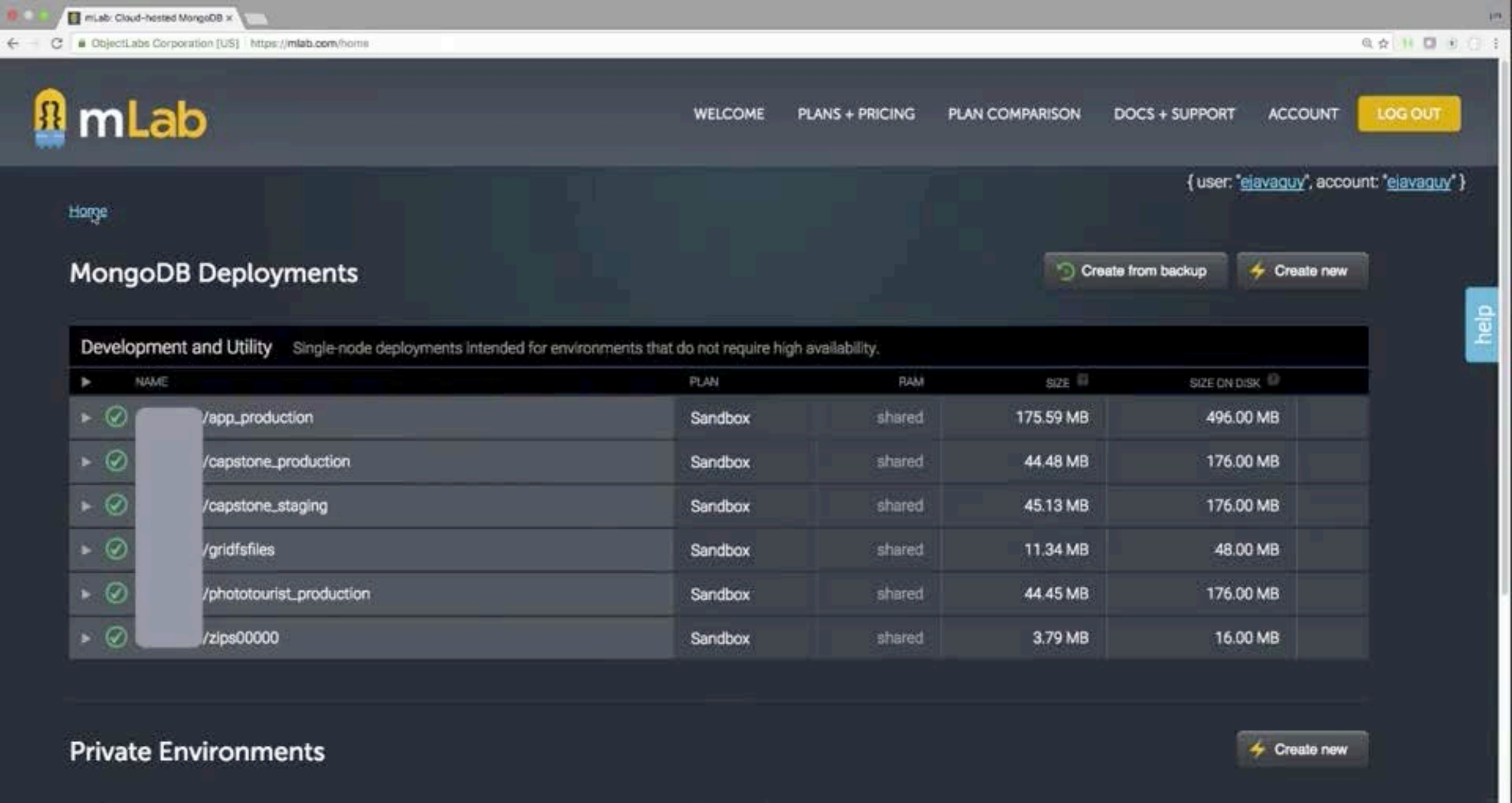
/phototourist_production
Sandbox
shared
44.45 MB
176.00 MB
/zips00000
Sandbox
shared
3.79 MB
16.00 MB


mLab: Cloud-hosted MongoDB
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mLab
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PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
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MongoDB Deployments
Create from backup
Create new
help
Development and Utility
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NAME
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SIZE
SIZE ON DISK
/app_production
Sandbox
shared
175.59 MB
496.00 MB
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Sandbox
shared
44.48 MB
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/capstone_staging
Sandbox
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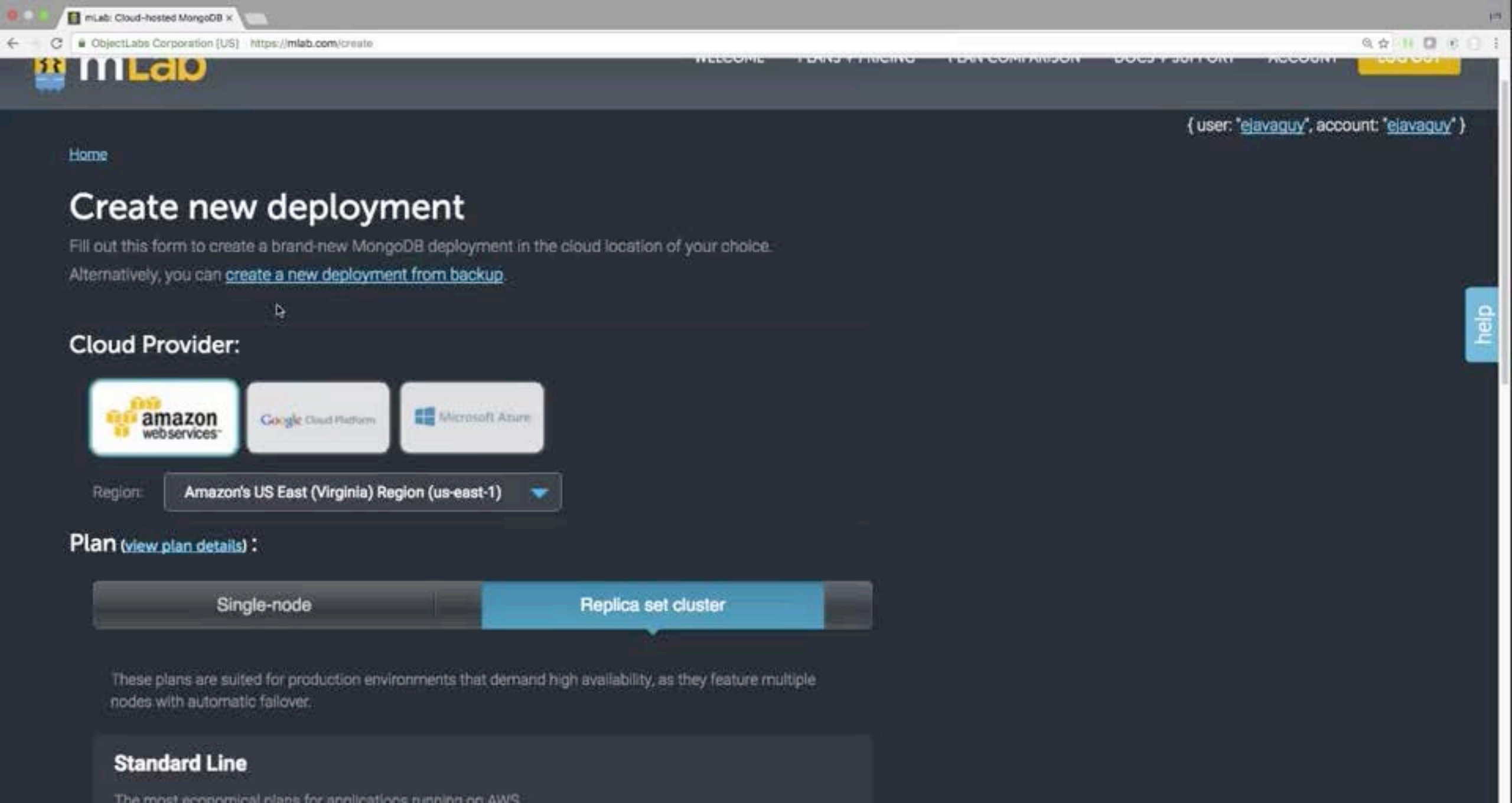
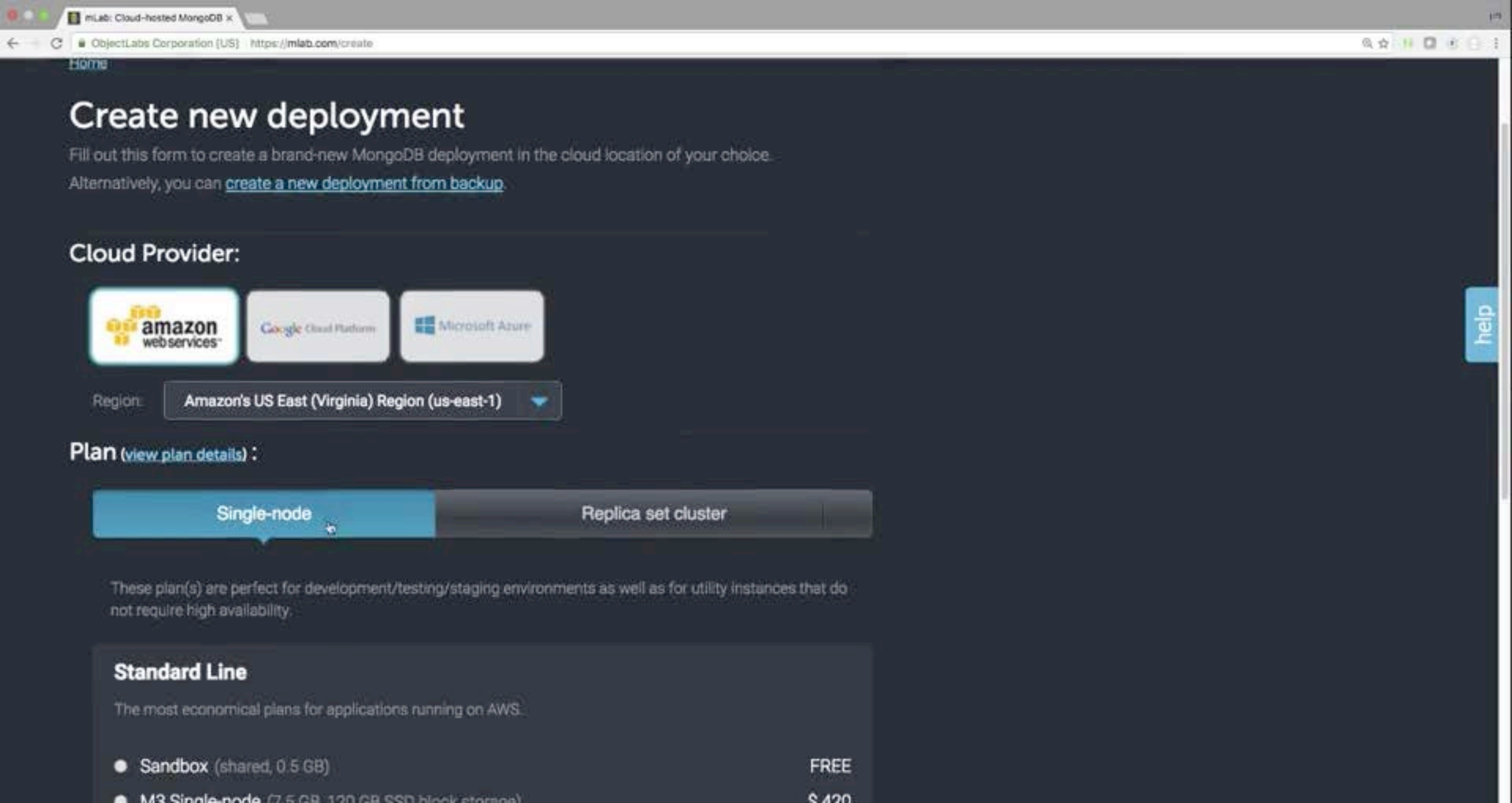
45.13 MB
176.00 MB
/gridfsfiles
Sandbox
shared
11.34 MB
48.00 MB
/phototourist_production
Sandbox
shared
44.45 MB
176.00 MB
/zips00000
Sandbox
shared
3.79 MB
16.00 MB
Private Environments
Create new


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/create
mLab
{ user: "ejavaguy", account: "ejavaguy" }
Home
Create new deployment
Fill out this form to create a brand-new MongoDB deployment in the cloud location of your choice.
Alternatively, you can create a new deployment from backup.
Cloud Provider:
amazon web services
Google Cloud Platform
Microsoft Azure
Region:
Amazon's US East (Virginia) Region (us-east-1)
Plan (view plan details):
Single-node
Replica set cluster
These plans are suited for production environments that demand high availability, as they feature multiple nodes with automatic failover.
Standard Line
help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Alternatively, you can create a new deployment from backup.
Cloud Provider:
amazon web services
Google Cloud Platform
Microsoft Azure
Region: Amazon's US East (Virginia) Region (us-east-1)
Plan (view plan details):
Single-node
Replica set cluster
These plan(s) are perfect for development/testing/staging environments as well as for utility instances that do not require high availability.
Standard Line
The most economical plans for applications running on AWS.
Sandbox (shared, 0.5 GB) FREE
M3 Single-node (7.5 GB, 120 GB SSD block storage) $ 420
help

These plan(s) are perfect for development/testing/staging environments as well as for utility instances that do not require high availability.

Standard Line

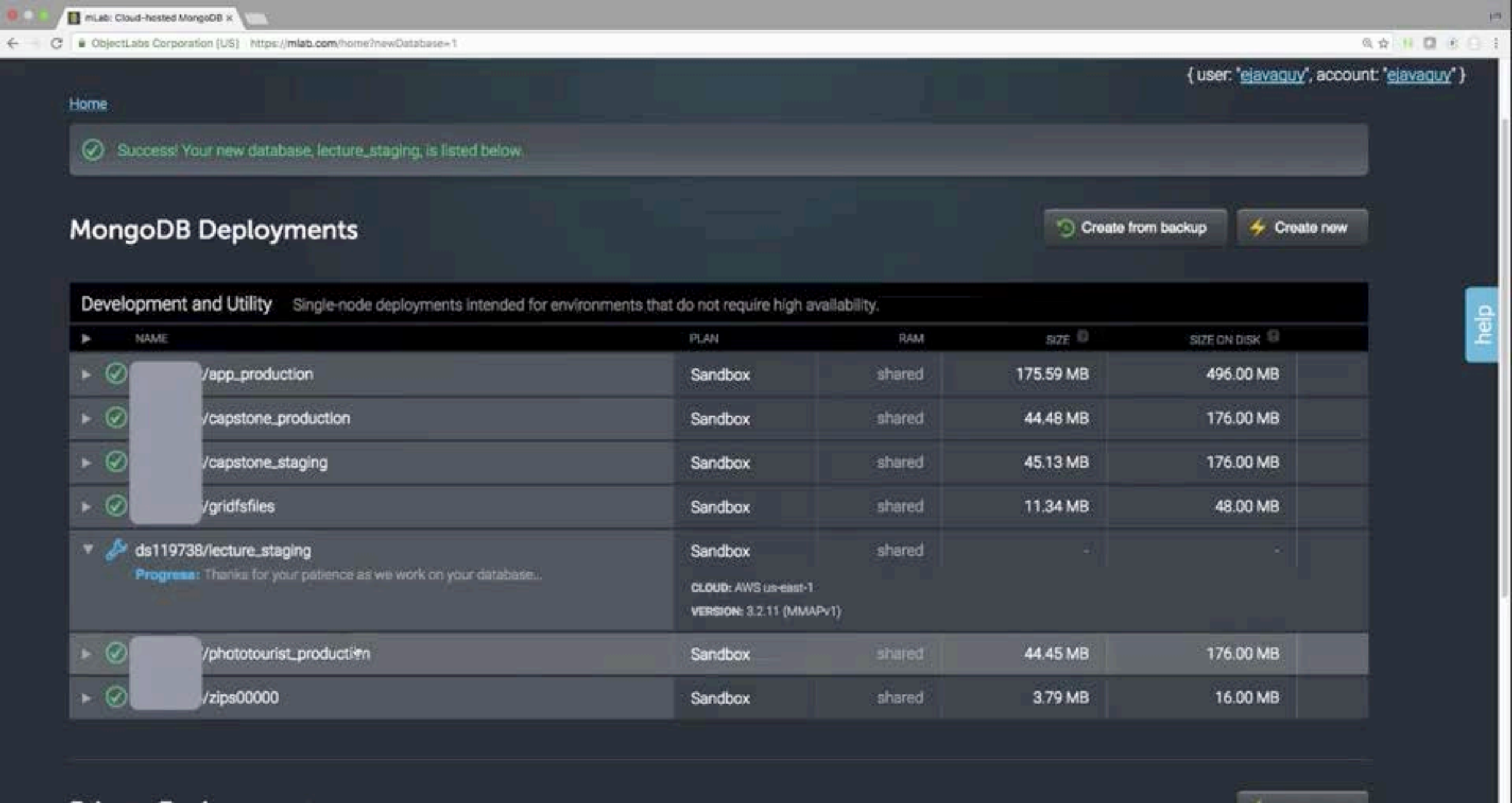
The most economical plans for applications running on AWS.

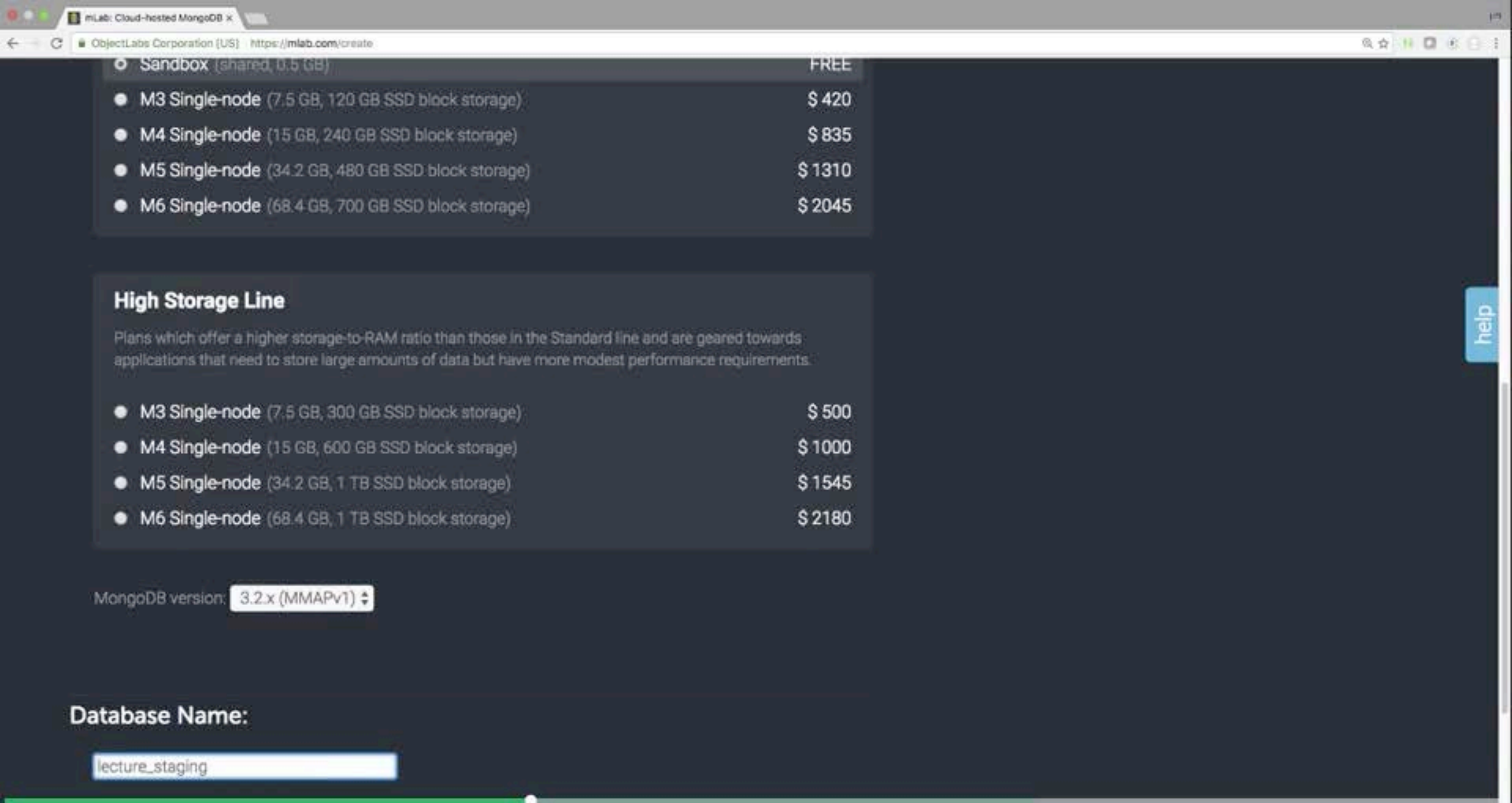
Sandbox (shared, 0.5 GB)	FREE
M3 Single-node (7.5 GB, 120 GB SSD block storage)	$ 420
M4 Single-node (15 GB, 240 GB SSD block storage)	$ 835
M5 Single-node (34.2 GB, 480 GB SSD block storage)	$ 1310
M6 Single-node (68.4 GB, 700 GB SSD block storage)	$ 2045

High Storage Line

Plans which offer a higher storage-to-RAM ratio than those in the Standard line and are geared towards applications that need to store large amounts of data but have more modest performance requirements.

M3 Single-node (7.5 GB, 300 GB SSD block storage)	$ 500
M4 Single-node (15 GB, 600 GB SSD block storage)	$ 1000
M5 Single-node (34.2 GB, 1 TB SSD block storage)	$ 1545
M6 Single-node (68.4 GB, 1 TB SSD block storage)	$ 2180


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/home?newDatabase=1
{ user: "ejavaguy", account: "ejavaguy" }
Home
Success! Your new database, lecture_staging, is listed below.
MongoDB Deployments
Create from backup
Create new
Development and Utility
Single-node deployments intended for environments that do not require high availability.
NAME
PLAN
RAM
SIZE
SIZE ON DISK
/app_production
Sandbox
shared
175.59 MB
496.00 MB
/capstone_production
Sandbox
shared
44.48 MB
176.00 MB
/capstone_staging
Sandbox
shared
45.13 MB
176.00 MB
/gridfsfiles
Sandbox
shared
11.34 MB
48.00 MB
ds119738/lecture_staging
Progress: Thanks for your patience as we work on your database...
Sandbox
shared
CLOUD: AWS us-east-1
VERSION: 3.2.11 (MMAPv1)
/phototourist_production
Sandbox
shared
44.45 MB
176.00 MB
/zips00000
Sandbox
shared
3.79 MB
16.00 MB
help


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/create
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M3 Single-node (7.5 GB, 300 GB SSD block storage) $ 500
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M5 Single-node (34.2 GB, 1 TB SSD block storage) $ 1545
M6 Single-node (68.4 GB, 1 TB SSD block storage) $ 2180
help
MongoDB version: 3.2.x (MMAPv1)
Database Name:
lecture_staging

mLab: Cloud-hosted MongoDB ×

ObjectLabs Corporation [US] https://mlab.com/home?newDatabase=1

{ user: "ejavaguy", account: "ejavaguy" }

Home

Success! Your new database, lecture_staging, is listed below.

MongoDB Deployments

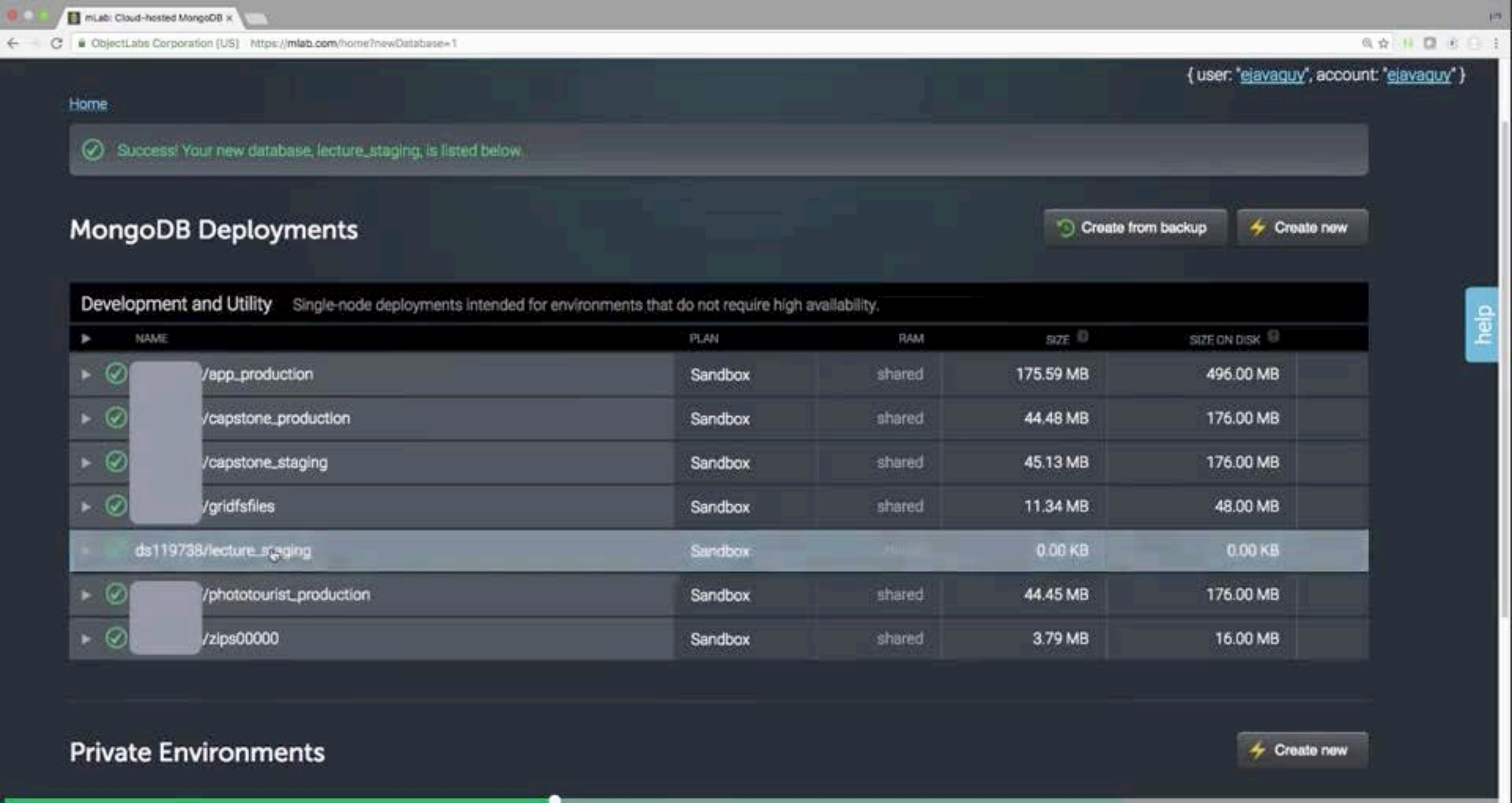
Create from backup | Create new

Development and Utility

Single-node deployments intended for environments that do not require high availability.

NAME	PLAN	RAM	SIZE	SIZE ON DISK
[redacted]/app_production	Sandbox	shared	175.59 MB	496.00 MB
[redacted]/capstone_production	Sandbox	shared	44.48 MB	176.00 MB
[redacted]/capstone_staging	Sandbox	shared	45.13 MB	176.00 MB
[redacted]/gridfsfiles	Sandbox	shared	11.34 MB	48.00 MB
ds119738/lecture_staging Progress: Thanks for your patience as we work on your database...	Sandbox CLOUD: AWS us-east-1 VERSION: 3.2.11 (MMAPv1)	shared	-	-
[redacted]/phototourist_production	Sandbox	shared	44.45 MB	176.00 MB
[redacted]/zips00000	Sandbox	shared	3.79 MB	16.00 MB

help


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/home?newDatabase=1
{ user: "ejavaguy", account: "ejavaguy" }
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Success! Your new database, lecture_staging, is listed below.
MongoDB Deployments
Create from backup
Create new
Development and Utility
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175.59 MB
496.00 MB
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44.48 MB
176.00 MB
/capstone_staging
Sandbox
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176.00 MB
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11.34 MB
48.00 MB
ds119738/lecture_staging
Sandbox
0.00 KB
0.00 KB
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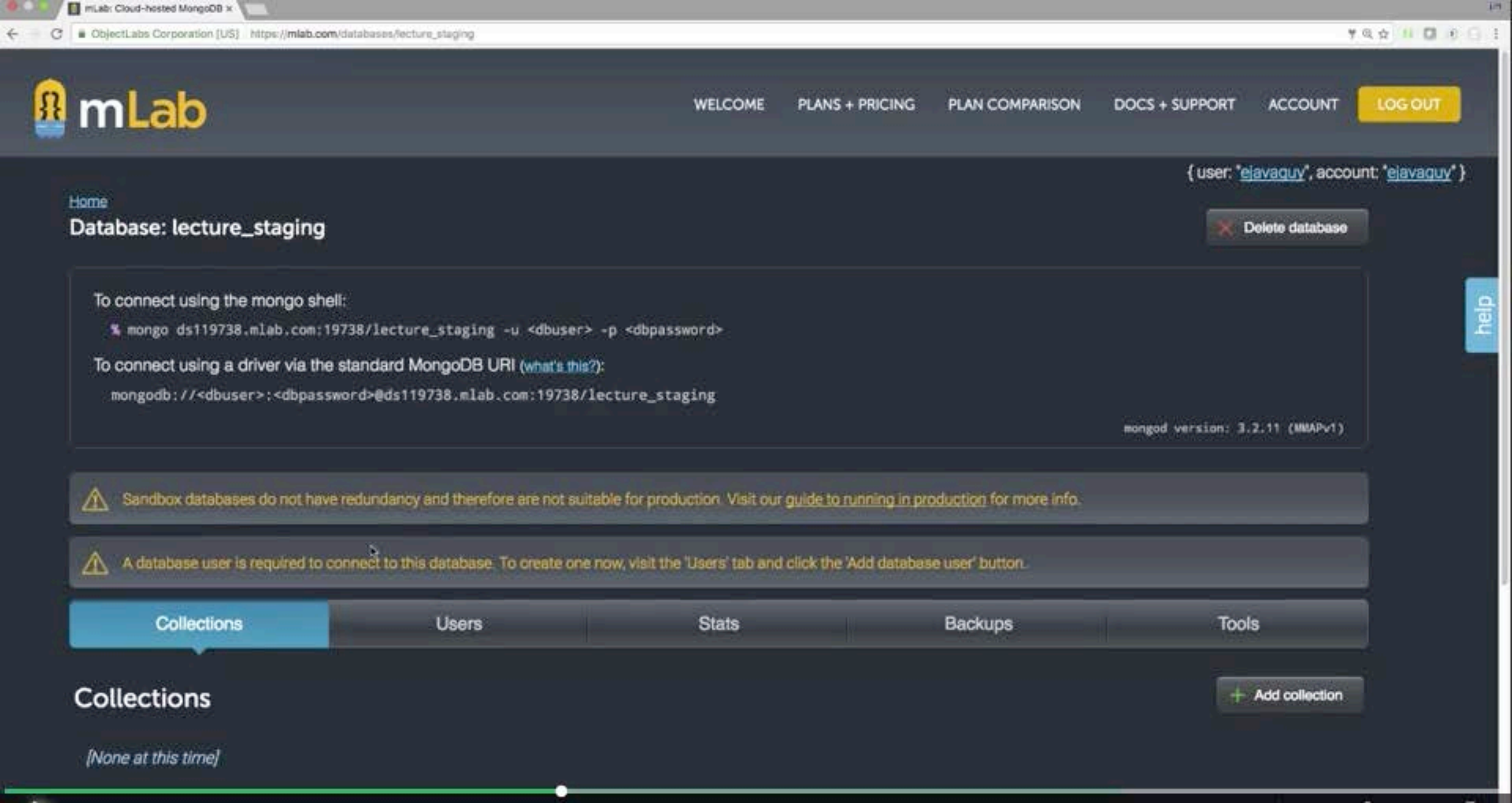
Private Environments
Create new
help


mLab: Cloud-hosted MongoDB
ObjectLabs Corporation [US] https://mlab.com/databases/lecture_staging
mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home
Database: lecture_staging
Delete database
To connect using the mongo shell:
% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
To connect using a driver via the standard MongoDB URI (what's this?):
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
mongod version: 3.2.11 (MMAPv1)
help
Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our guide to running in production for more info.
A database user is required to connect to this database. To create one now, visit the 'Users' tab and click the 'Add database user' button.
Collections
Users
Stats
Backups
Tools
Collections
Add collection
[None at this time]

mLab: Cloud-hosted MongoDB

ObjectLabs Corporation [US] https://mlab.com/databases/lecture_staging#users

mLab

WELCOME PLANS + PRICING PLAN COMPARISON DOCS + SUPPORT ACCOUNT LOG OUT

{ user: "ejavaguy", account: "ejavaguy" }

Home

Database: lecture_staging

Delete database

To connect using the mongo shell:

```
% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

To connect using a driver via the standard MongoDB URI (what's this?):

```
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

mongod version: 3.2.11 (MMAPv1)

help

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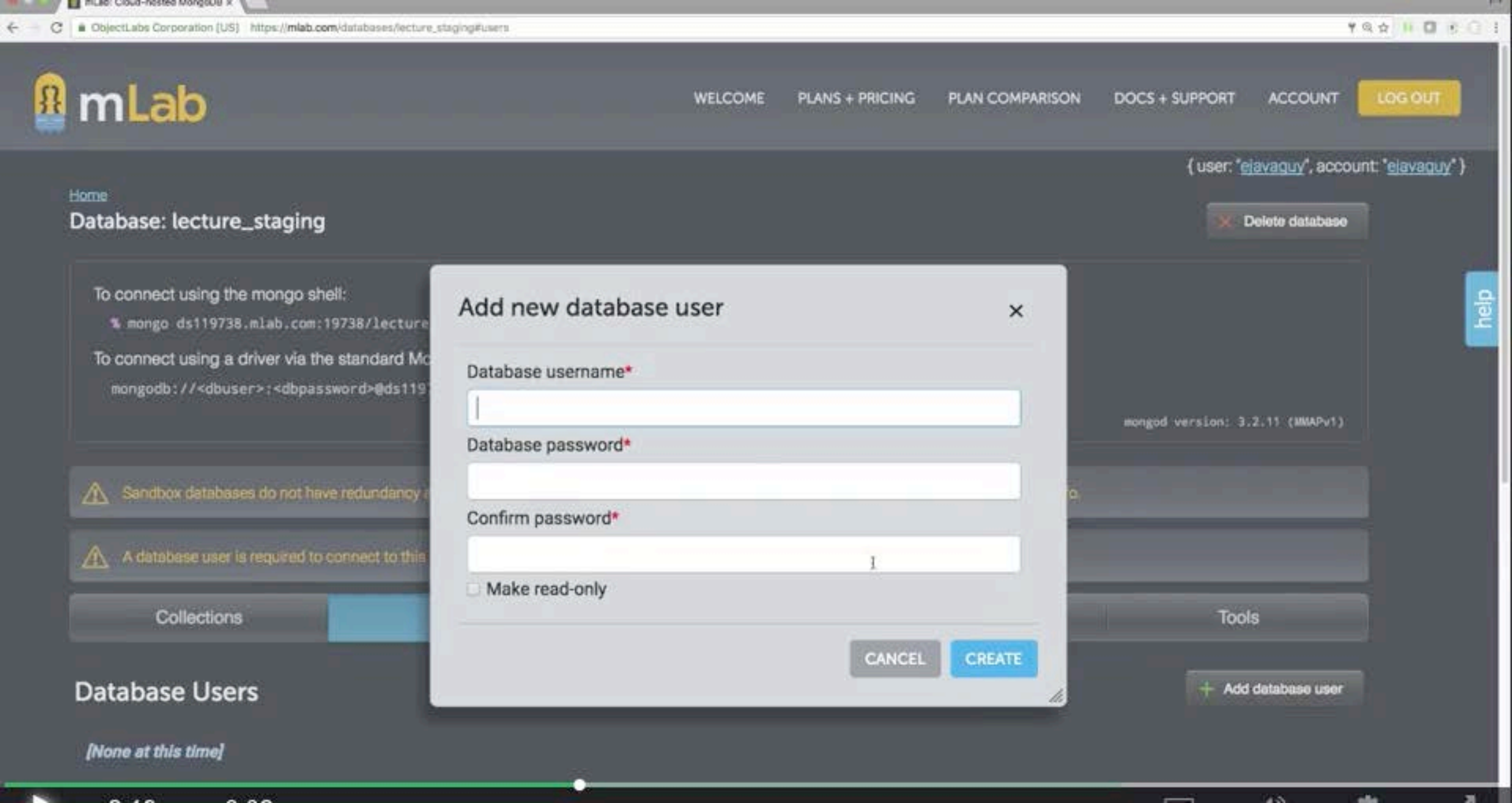
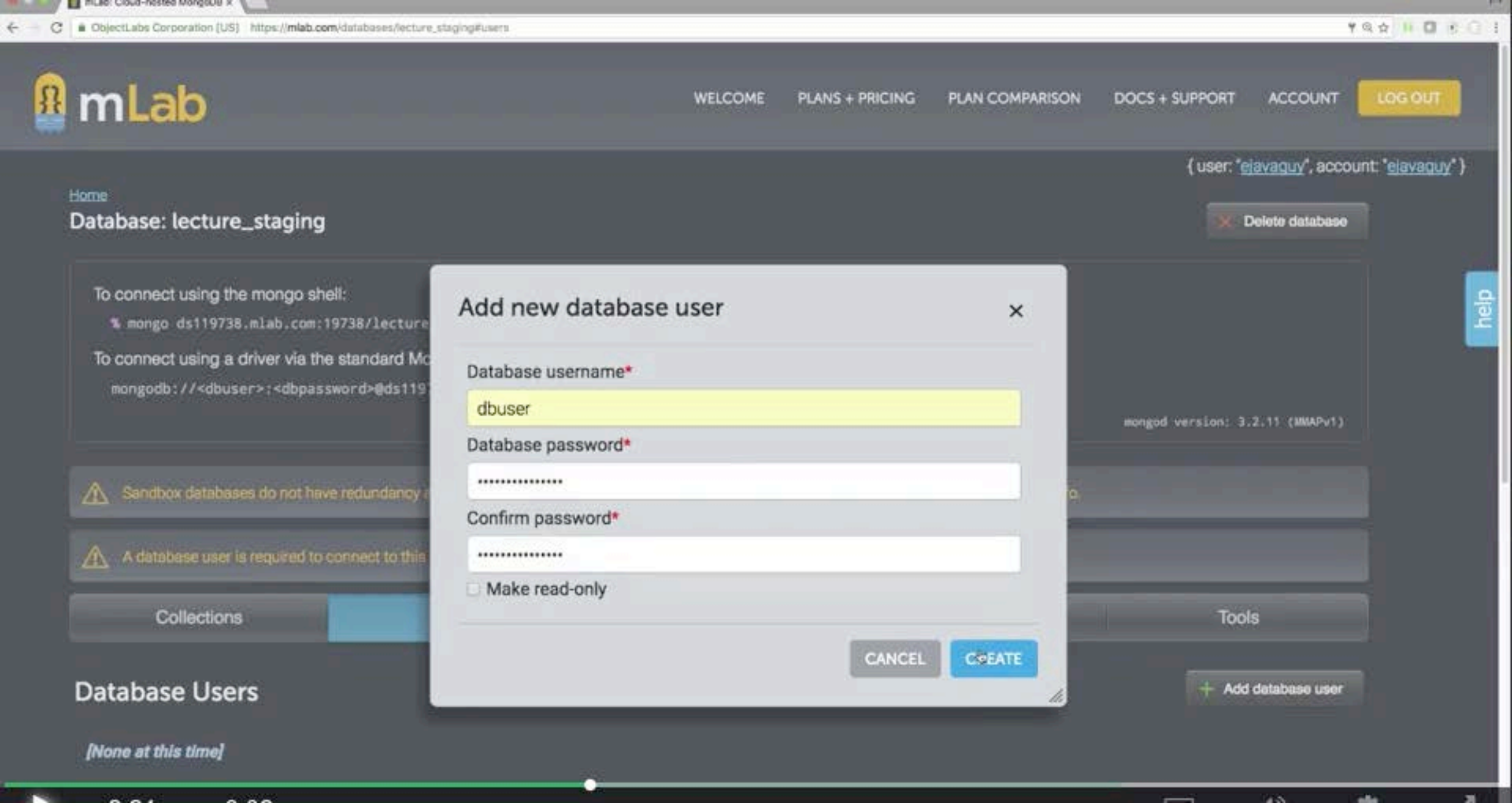
Collections | Users | Stats | Backups | Tools

Database Users

+ Add database user

[None at this time]


mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home
Database: lecture_staging
Delete database
To connect using the mongo shell:
% mongo ds119738.mlab.com:19738/lecture
To connect using a driver via the standard Mo
mongodb://<dbuser>:<dbpassword>@ds119
mongod version: 3.2.11 (MMAPv1)
Sandbox databases do not have redundancy
A database user is required to connect to this
Collections
Tools
Database Users
[None at this time]
Add database user
Add new database user
Database username*
Database password*
Confirm password*
Make read-only
CANCEL
CREATE
help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Database Users
[None at this time]
Add database user
help
Add new database user
Database username*
dbuser
Database password*
Confirm password*
Make read-only
CANCEL
CREATE

ObjectLabs Corporation [US] https://mlab.com/databases/lecture_staging#users

Home

Database: lecture_staging

To connect using the mongo shell:

```
% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

To connect using a driver via the standard MongoDB URI (what's this?):

```
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

help

⚠ Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our guide to running in production for more info.

Collections | Users | Stats | Backups

Database Users

NAME	READ ONLY?

Database: lecture_staging

To connect using the mongo shell:

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% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

To connect using a driver via the standard MongoDB URI (what's this?):

```
mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

help

⚠ Sandbox databases do not have redundancy and therefore are not suitable for production. Visit our guide to running in production for more info.

Database Users

NAME	READ ONLY?
dbuser	false

Home

Database: lecture_staging

To connect using the mongo shell:

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% mongo ds119738.mlab.com:19738/lecture_staging -u <dbuser> -p <dbpassword>
```

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mongodb://<dbuser>:<dbpassword>@ds119738.mlab.com:19738/lecture_staging
```

help

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Collections | Users | Stats | Backups

Database Users

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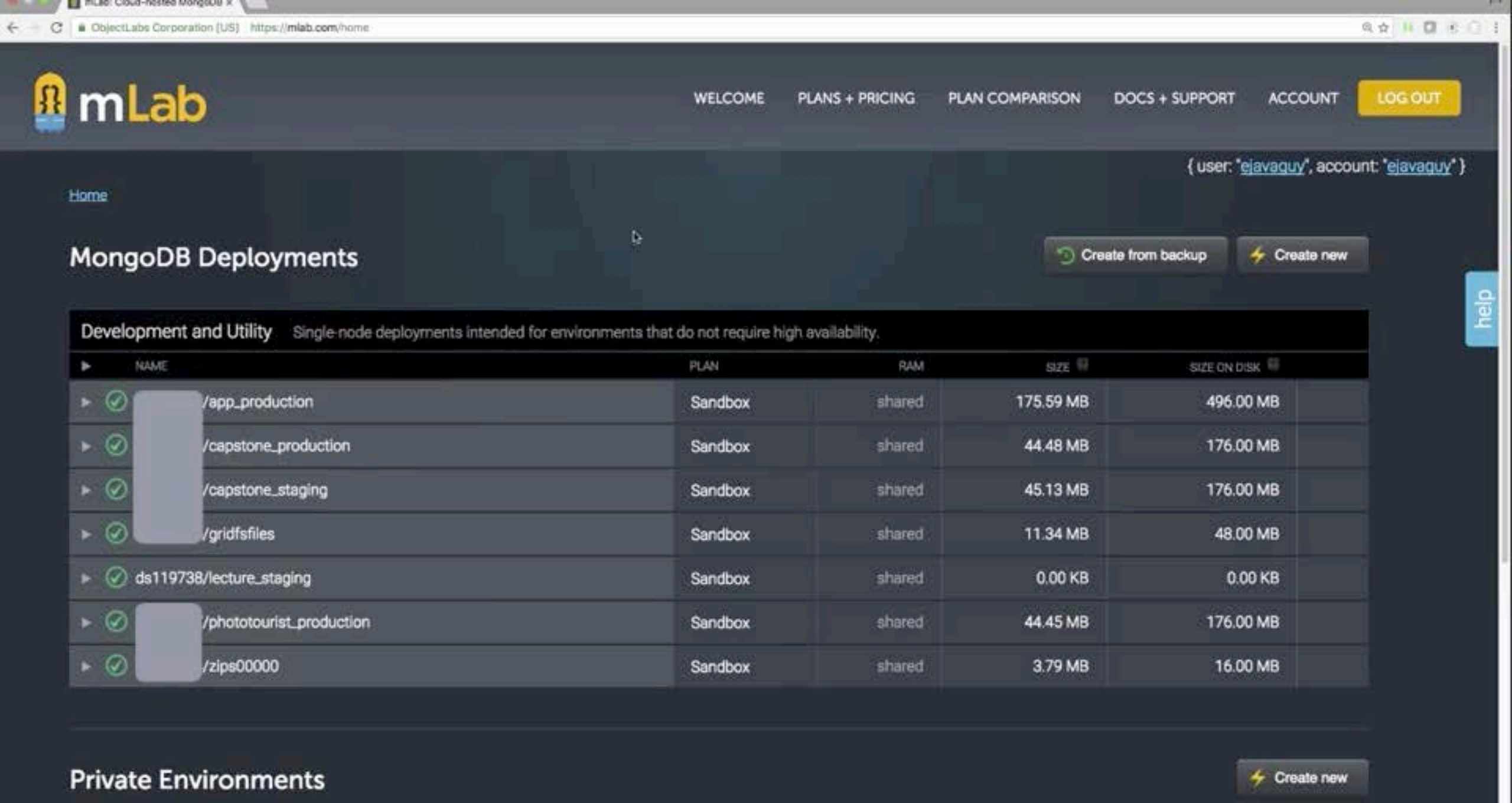
mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home
MongoDB Deployments
Create from backup
Create new
help
Development and Utility
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RAM
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SIZE ON DISK
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Sandbox
shared
175.59 MB
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/capstone_production
Sandbox
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44.48 MB
176.00 MB
/capstone_staging
Sandbox
shared
45.13 MB
176.00 MB
/gridfsfiles
Sandbox
shared
11.34 MB
48.00 MB
ds119738/lecture_staging
Sandbox
shared
0.00 KB
0.00 KB
/phototourist_production
Sandbox
shared
44.45 MB
176.00 MB
/zips00000
Sandbox
shared
3.79 MB
16.00 MB
Private Environments
Create new

Collections | Users | Stats | Backups | Tools

Collections

Delete all collections | Add collection

NAME	DOCUMENTS	CAPPED?	SIZE
bars	1	false	8.03 KB
image_contents	480	false	175.55 MB
locations	15	false	30.97 KB

System Collections

NAME	DOCUMENTS	SIZE
system.indexes	6	1.03 KB

ObjectLabs Corporation [US] https://mlab.com/databases/wpp_production/collections/bars

Documents

Delete all documents in collection | Add document

— Start new search —

All Documents

Display mode: list table (edit table view)

records / page 10 [1 - 1 of 1]


```
{
  "_id": {
    "$oid": "5766f9b2ce3a130003000000"
  },
  "name": "test"
}
```


records / page 10 [1 - 1 of 1]

From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for `map/reduce` queries. To use `map/reduce`, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

ObjectLabs Corporation [US] https://mlab.com/databases/wpp_production/collections/bars

Documents

Delete all documents in collection | Add document

— Start new search —

All Documents

Display mode: ● list ○ table (edit table view)

records / page 10 [1 - 1 of 1]


```
{
  "_id": {
    "$oid": "5766f9b2ce3a130003000000"
  },
  "name": "test"
}
```


records / page 10 [1 - 1 of 1]

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Collection: bars

Documents | Indexes | Stats | Tools

Indexes

+ Add index

INDEXED FIELD(S)	UNIQUE	SPARSE	TTL	SIZE
{"_id" : 1}	(true)	(false)	-	7.98 KB

Indexes (full docs)

From the "Indexes" tab you can manage indexes for this collection. Index configuration is stored in the system.indexes collection for this database, but you should create indexes either via this page or the `ensureIndex` method.

Standard Indexes (full docs)

From this UI, you can create simple or compound indexes that are optionally unique and/or sparse. You can even index a key inside an embedded object (e.g. `address.city`).

When you see indexed fields that look like:

```
{ <field-name> : <-1 or 1> }
```

...the `1` indicates an ascending sort order and `-1` a descending sort order. Sort order only matters for compound indexes.

Geospatial Indexes (full docs)

You can also create a `2d` or `2dsphere` geospatial index here. Please note that starting with MongoDB 2.4 and above, multiple geospatial indexes per collection are allowed unless you're making use of the `geoNear` database command and/or the `$geoNear` aggregation pipeline operator. You can read further about these considerations.

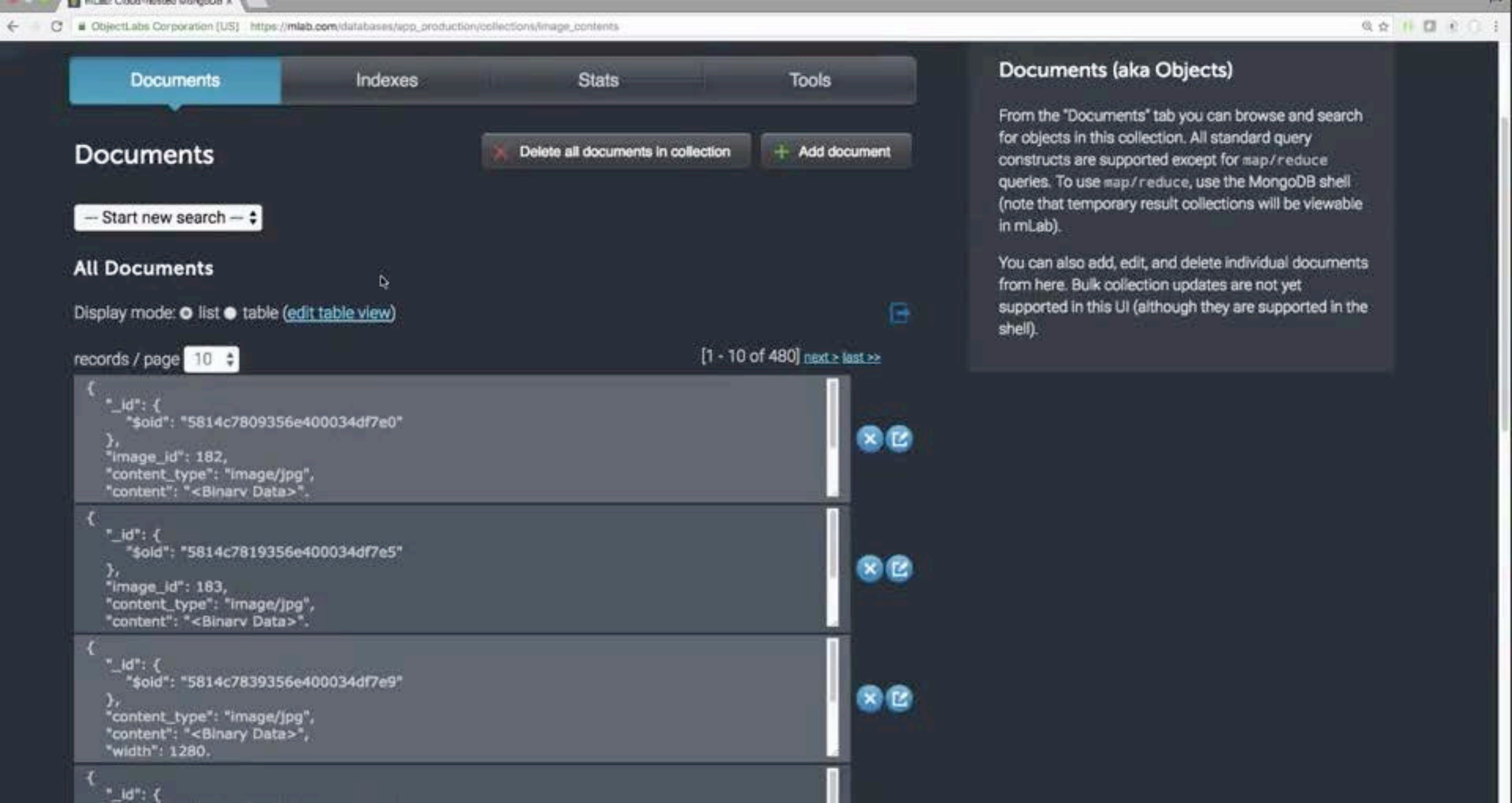
Collections

Delete all collections | Add collection

NAME	DOCUMENTS	CAPPED?	SIZE
bars	1	false	8.03 KB
image_contents	480	false	175.55 MB
locations	15	false	30.97 KB

System Collections

NAME	DOCUMENTS	SIZE
system.indexes	6	1.03 KB


ObjectLabs Corporation [US] https://mlab.com/databases/app_production/collections/image_contents
Documents
Indexes
Stats
Tools
Documents
Delete all documents in collection
Add document
— Start new search —
All Documents
Display mode: list table (edit table view)
records / page 10
[1 - 10 of 480] next > last >>
{
"_id": {
"$oid": "5814c7809356e400034df7e0"
},
"image_id": 182,
"content_type": "image/jpg",
"content": "<Binary Data>",
{
"_id": {
"$oid": "5814c7819356e400034df7e5"
},
"image_id": 183,
"content_type": "image/jpg",
"content": "<Binary Data>",
{
"_id": {
"$oid": "5814c7839356e400034df7e9"
},
"content_type": "image/jpg",
"content": "<Binary Data>",
"width": 1280,
{
"_id": {
Documents (aka Objects)
From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).
You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

Documents

Delete all documents in collection | Add document

— Start new search —

All Documents

Display mode: ● list ○ table (edit table view)

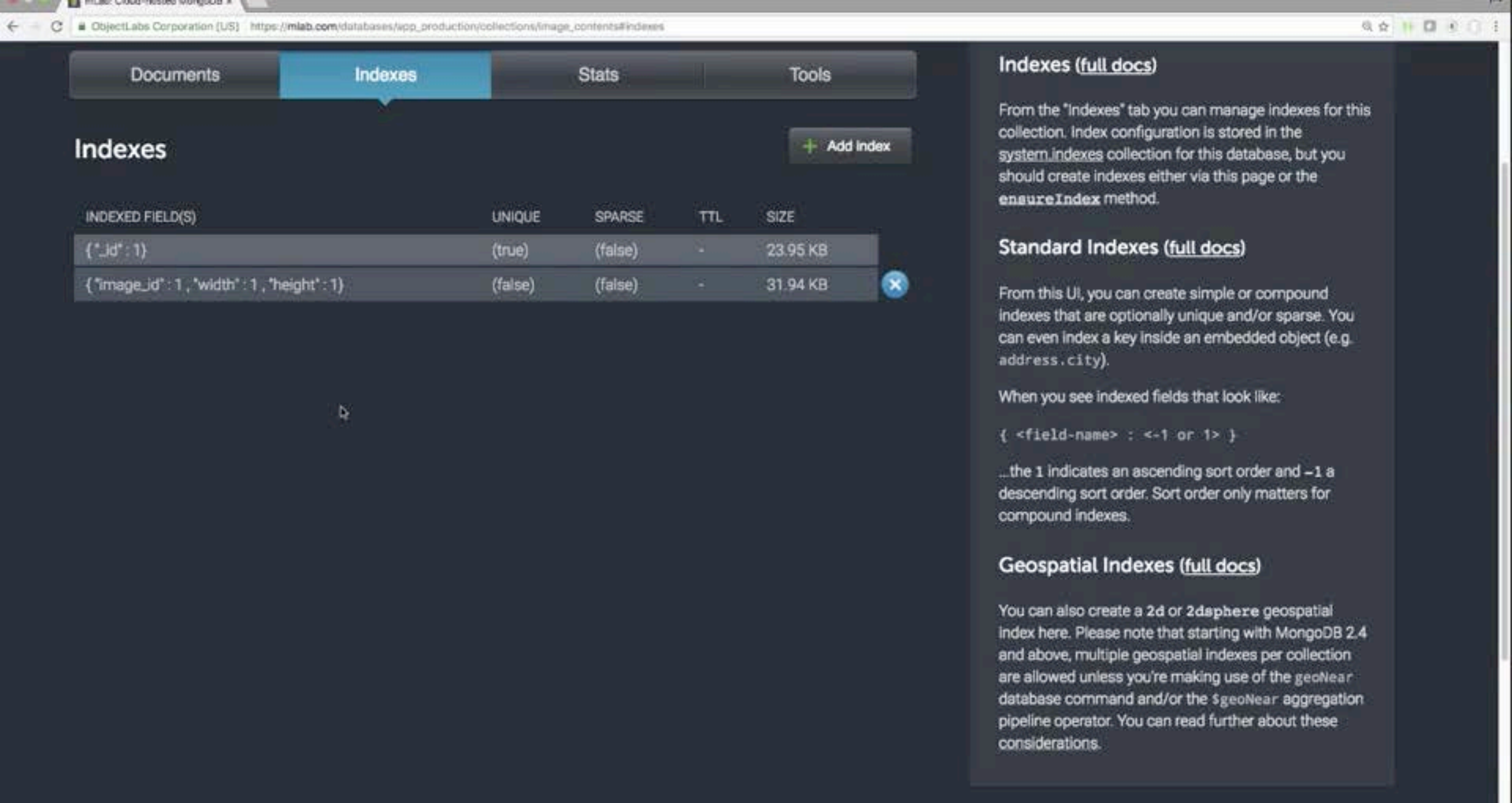
records / page 10

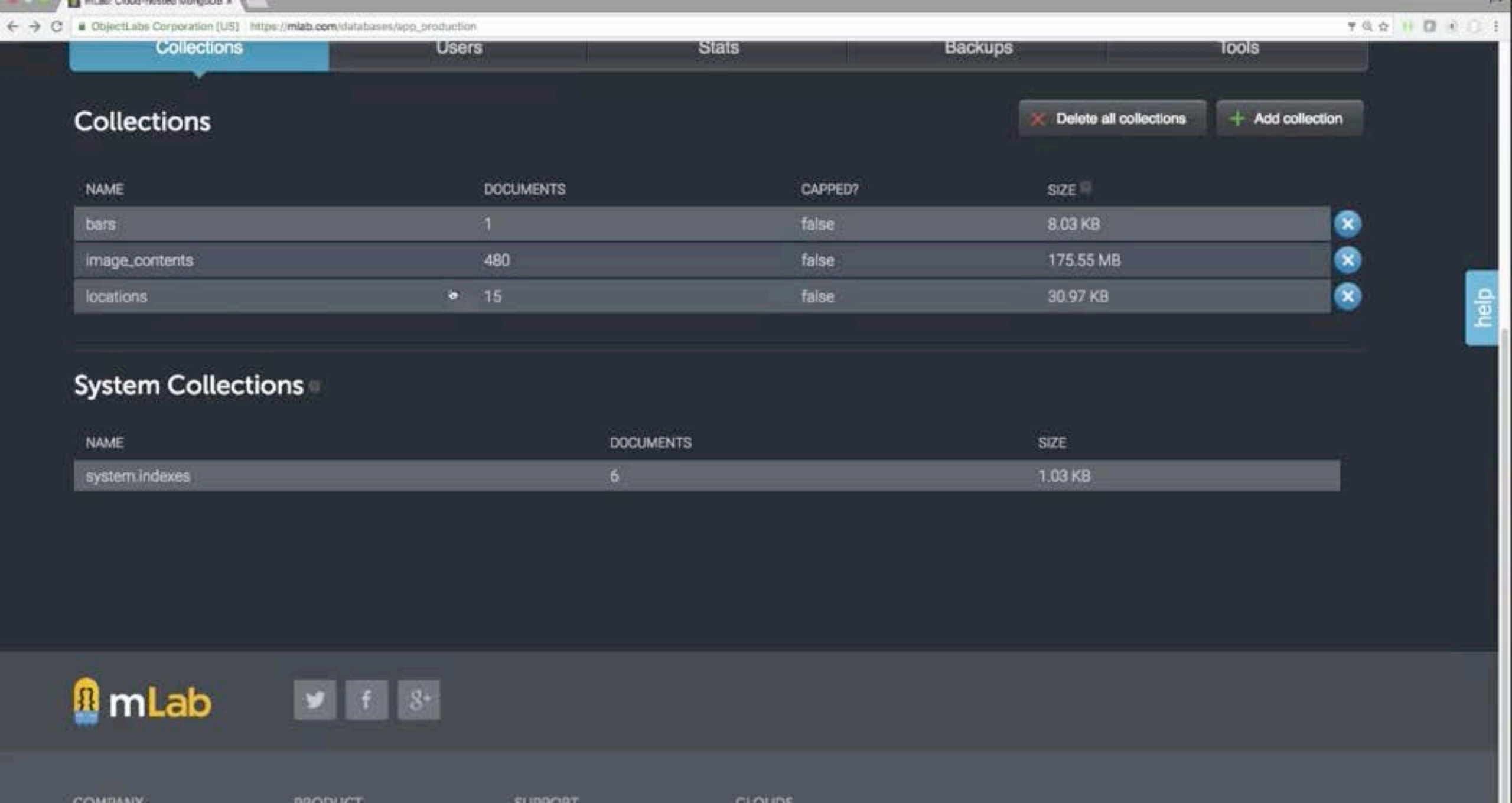
[1 - 10 of 480] next > last >>

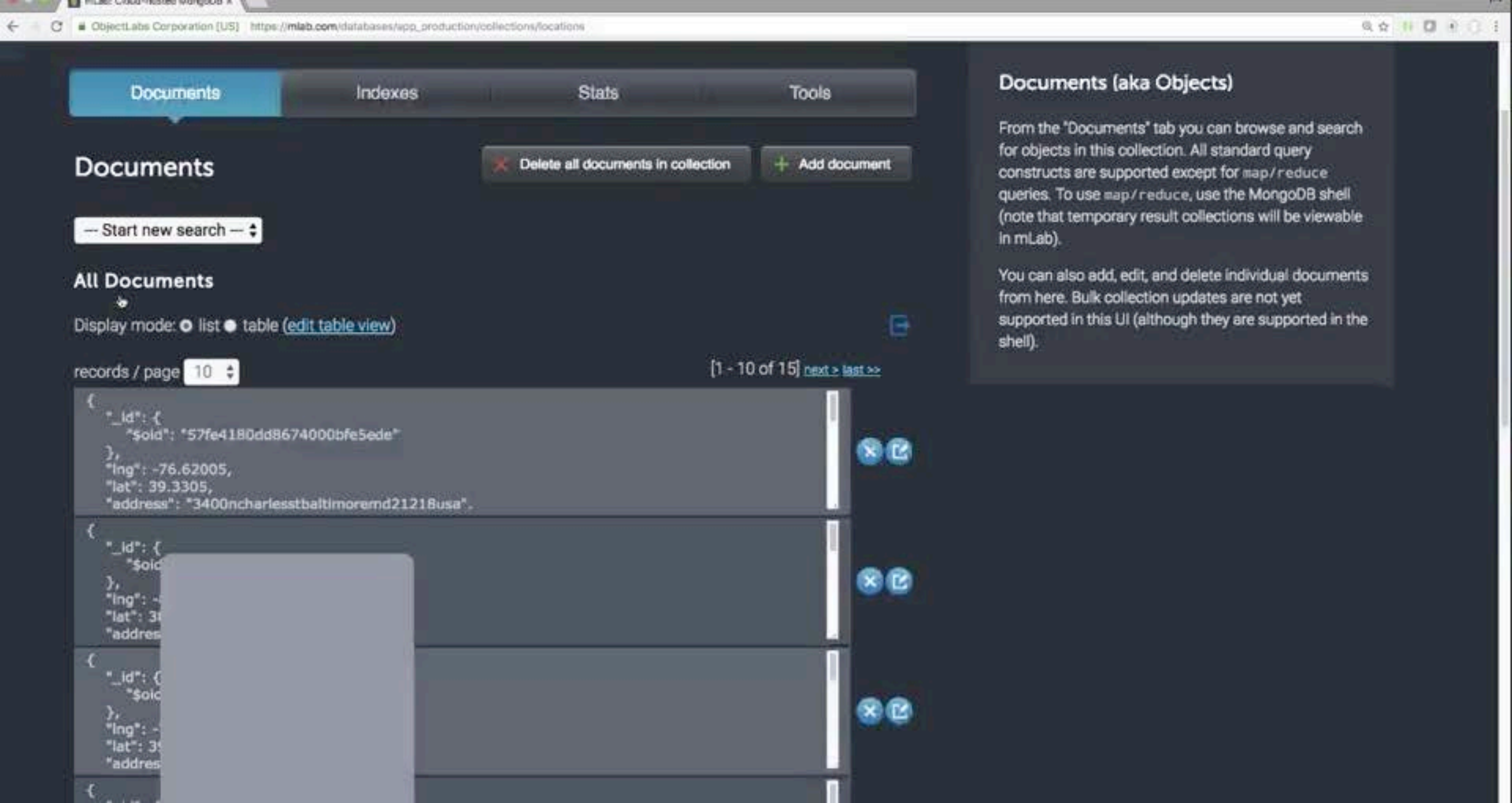

```
    "$oid": "5814c7809356e400034df7e0"
  },
  "image_id": 182,
  "content_type": "image/jpg",
  "content": "<Binary Data>",
  "width": 89,
  "height": 67
}
{
  "_id": {
    "$oid": "5814c7819356e400034df7e5"
  },
  "image_id": 183,
  "content_type": "image/jpg",
  "content": "<Binary Data>",
}
{
  "_id": {
    "$oid": "5814c7839356e400034df7e9"
  },
  "content_type": "image/jpg",
  "content": "<Binary Data>",
  "width": 1280,
}
{
  "_id": {
    "$oid": "5814c7839356e400034df7ea"
  },
  "image_id": 184,
```


From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for `map/reduce` queries. To use `map/reduce`, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).


ObjectLabs Corporation [US] https://mlab.com/databases/app_production/collections/image_contents#indexes
Documents
Indexes
Stats
Tools
Indexes
Add index
INDEXED FIELD(S)
UNIQUE
SPARSE
TTL
SIZE
{"_id" : 1}
(true)
(false)
-
23.95 KB
{"image_id" : 1 , "width" : 1 , "height" : 1}
(false)
(false)
-
31.94 KB
Indexes (full docs)
From the "Indexes" tab you can manage indexes for this collection. Index configuration is stored in the system.indexes collection for this database, but you should create indexes either via this page or the ensureIndex method.
Standard Indexes (full docs)
From this UI, you can create simple or compound indexes that are optionally unique and/or sparse. You can even index a key inside an embedded object (e.g. address.city).
When you see indexed fields that look like:
{ <field-name> : <-1 or 1> }
...the 1 indicates an ascending sort order and -1 a descending sort order. Sort order only matters for compound indexes.
Geospatial Indexes (full docs)
You can also create a 2d or 2dsphere geospatial index here. Please note that starting with MongoDB 2.4 and above, multiple geospatial indexes per collection are allowed unless you're making use of the geoNear database command and/or the $geoNear aggregation pipeline operator. You can read further about these considerations.


ObjectLabs Corporation [US] https://mlab.com/databases/app_production
Collections
Users
Stats
Backups
Tools
Collections
Delete all collections
Add collection
NAME
DOCUMENTS
CAPPED?
SIZE
bars
1
false
8.03 KB
image_contents
480
false
175.55 MB
locations
15
false
30.97 KB
System Collections
NAME
DOCUMENTS
SIZE
system.indexes
6
1.03 KB
mLab
help


ObjectLabs Corporation [US] https://mlab.com/databases/app_production/collections/locations
Documents
Indexes
Stats
Tools
Documents
Delete all documents in collection
Add document
— Start new search —
All Documents
Display mode: list table (edit table view)
records / page 10
[1 - 10 of 15] next > last >>
{
"_id": {
"$oid": "57fe4180dd8674000bfe5ede"
},
"lng": -76.62005,
"lat": 39.3305,
"address": "3400ncharlesstbaltimoremd21218usa".
Documents (aka Objects)
From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for map/reduce queries. To use map/reduce, use the MongoDB shell (note that temporary result collections will be viewable in mLab).
You can also add, edit, and delete individual documents from here. Bulk collection updates are not yet supported in this UI (although they are supported in the shell).

ObjectLabs Corporation [US] https://mlab.com/databases/wpp_production/collections/locations

Documents | Indexes | Stats | Tools

Documents

Delete all documents in collection | Add document

— Start new search —

All Documents

Display mode: ● list ○ table (edit table view)

records / page 10

[1 - 10 of 15] next > last >>


```
{
  "_id": {
    "$oid": "57fe4180dd8674000bfe5ede"
  },
  "lng": -76.62005,
  "lat": 39.3305,
  "address": "3400ncharlesstbaltimoremd21218usa",
```


From the "Documents" tab you can browse and search for objects in this collection. All standard query constructs are supported except for `map/reduce` queries. To use `map/reduce`, use the MongoDB shell (note that temporary result collections will be viewable in mLab).

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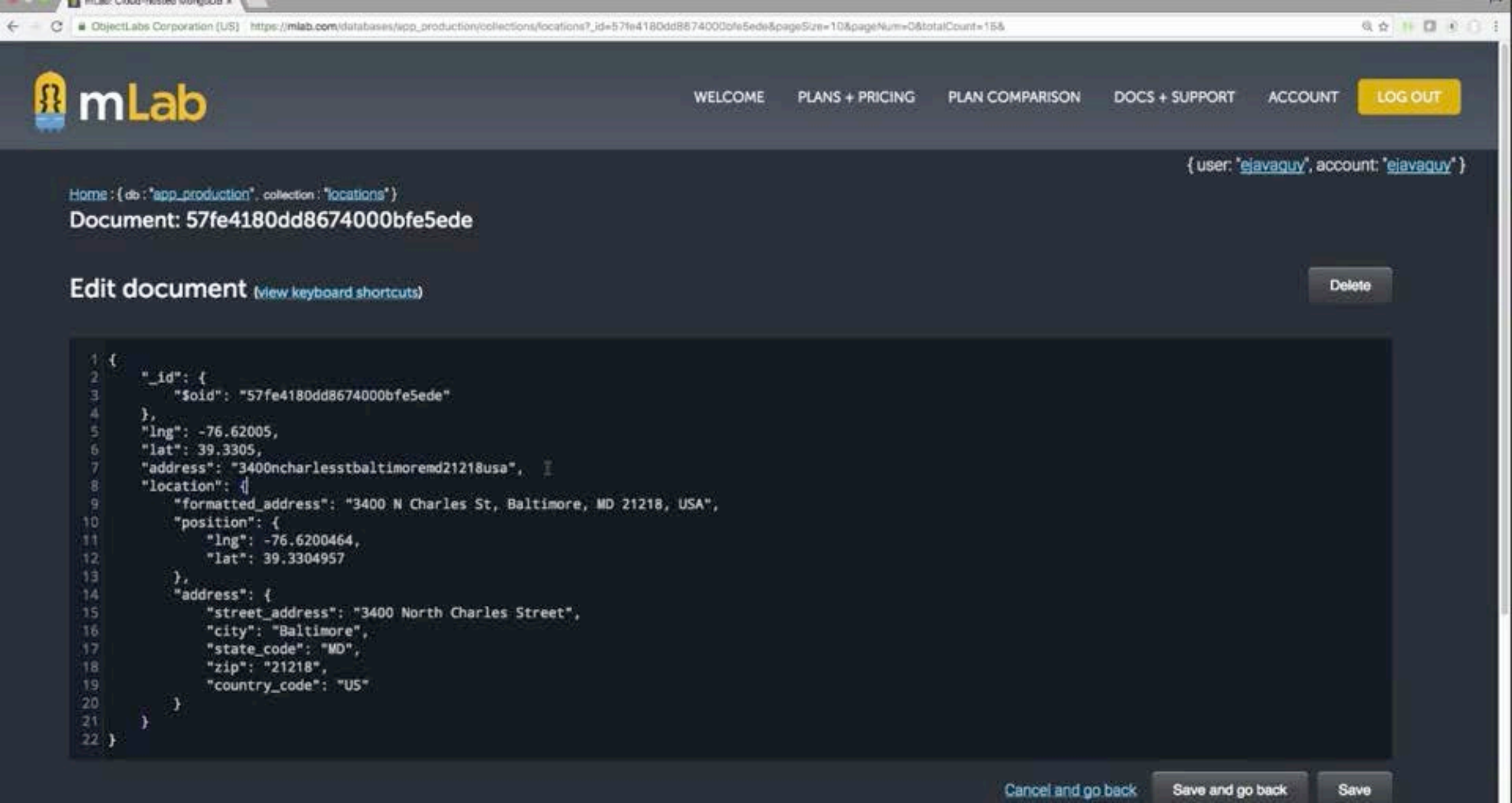
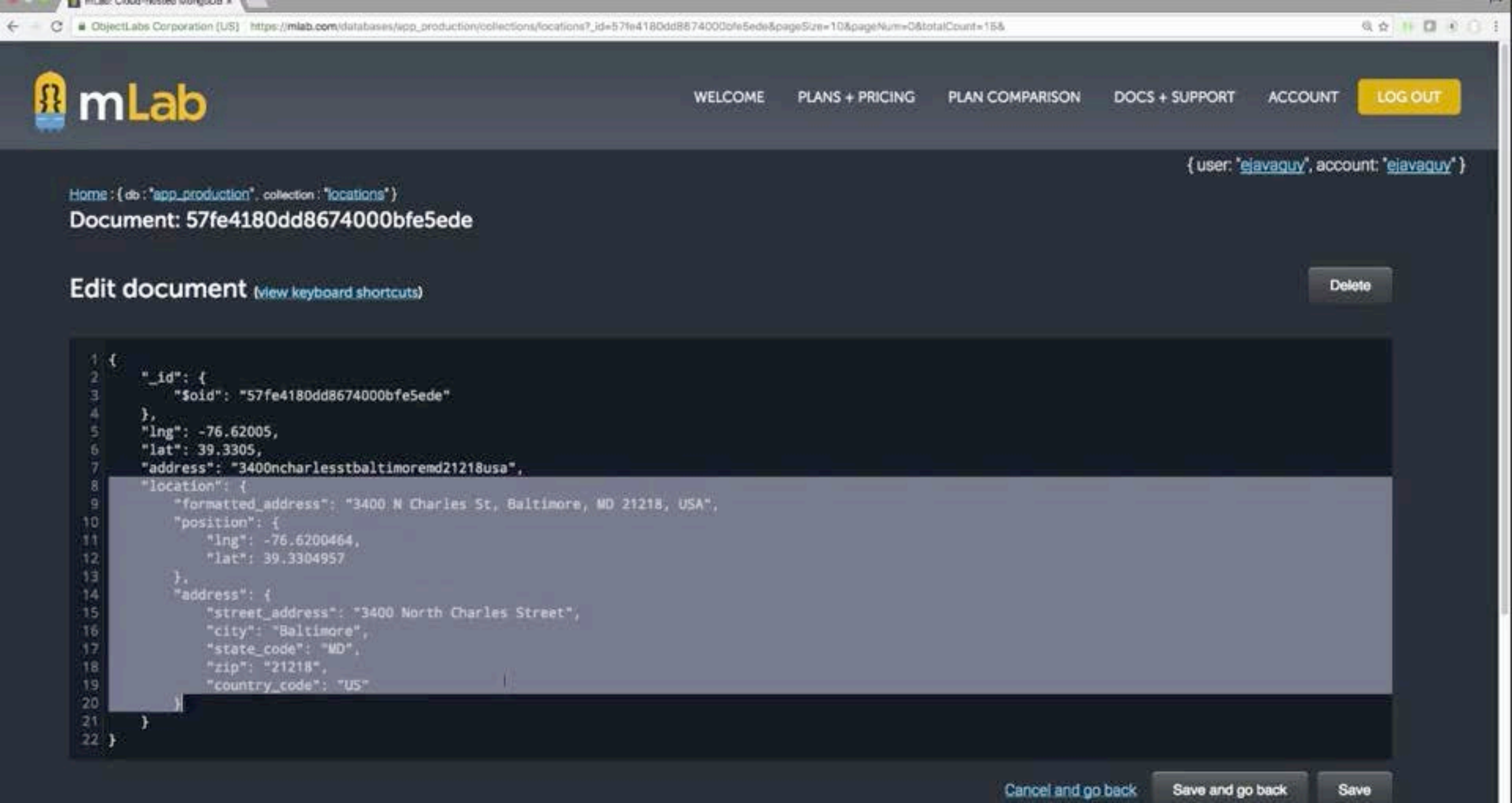

ObjectLabs Corporation [US] https://mlab.com/databases/app_production/collections/locations?_id=57fe4180dd8674000bfe5ede&pageSize=10&pageNum=0&totalCount=15&
mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home : { db : "app_production", collection : "locations" }
Document: 57fe4180dd8674000bfe5ede
Edit document (view keyboard shortcuts)
Delete
{
"_id": {
"$oid": "57fe4180dd8674000bfe5ede"
},
"lng": -76.62005,
"lat": 39.3305,
"address": "3400ncharlesstbaltimoremd21218usa",
"location": {
"formatted_address": "3400 N Charles St, Baltimore, MD 21218, USA",
"position": {
"lng": -76.6200464,
"lat": 39.3304957
},
"address": {
"street_address": "3400 North Charles Street",
"city": "Baltimore",
"state_code": "MD",
"zip": "21218",
"country_code": "US"
}
}
}
Cancel and go back
Save and go back
Save


mLab
WELCOME
PLANS + PRICING
PLAN COMPARISON
DOCS + SUPPORT
ACCOUNT
LOG OUT
{ user: "ejavaguy", account: "ejavaguy" }
Home : { db : "app_production", collection : "locations" }
Document: 57fe4180dd8674000bfe5ede
Edit document (view keyboard shortcuts)
Delete
{
"_id": {
"$oid": "57fe4180dd8674000bfe5ede"
},
"lng": -76.62005,
"lat": 39.3305,
"address": "3400ncharlesstbaltimoremd21218usa",
"location": {
"formatted_address": "3400 N Charles St, Baltimore, MD 21218, USA",
"position": {
"lng": -76.6200464,
"lat": 39.3304957
},
"address": {
"street_address": "3400 North Charles Street",
"city": "Baltimore",
"state_code": "MD",
"zip": "21218",
"country_code": "US"
}
}
}
Cancel and go back
Save and go back
Save

Collection: locations

Documents | Indexes | Stats | Tools

Indexes

+ Add index

INDEXED FIELD(S)	UNIQUE	SPARSE	TTL	SIZE
{ "_id" : 1 }	(true)	(false)	-	7.98 KB
{ "address" : 1 }	(false)	(false)	86400	7.98 KB
{ "lng" : 1 , "lat" : 1 }	(false)	(false)	86400	7.98 KB

Indexes (full docs)

From the "Indexes" tab you can manage indexes for this collection. Index configuration is stored in the system.indexes collection for this database, but you should create indexes either via this page or the `ensureIndex` method.

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Summary

- ✧ Provisioned MongoDBs on mLab
  - staging instance
  - production instance

What's Next?

- ✧ Staging and Production Heroku Deployment