

## Arvados - Story #15180

### [Spike] Test migration on production database

05/01/2019 02:52 PM - Tom Morris

<b>Status:</b>	Resolved	<b>Start date:</b>	
<b>Priority:</b>	Normal	<b>Due date:</b>	
<b>Assigned To:</b>	Eric Biagiotti	<b>% Done:</b>	0%
<b>Category:</b>		<b>Estimated time:</b>	0.00 hour
<b>Target version:</b>	2019-05-08 Sprint		
<b>Description</b>			
<b>Related issues:</b>			
Blocks Arvados - Story #15093: Work with Ops to decide best DB migration stra...		<b>Resolved</b>	

#### History

##### #1 - 05/01/2019 02:54 PM - Tom Morris

- Private changed from Yes to No

##### #2 - 05/01/2019 02:54 PM - Tom Morris

- Parent task deleted (#15093)

##### #3 - 05/01/2019 02:54 PM - Tom Morris

- Tracker changed from Task to Story

- Target version changed from To Be Groomed to 2019-05-08 Sprint

##### #4 - 05/01/2019 02:55 PM - Tom Morris

- Blocks Story #15093: Work with Ops to decide best DB migration strategy for collection file count & size added

##### #5 - 05/01/2019 05:02 PM - Eric Biagiotti

The RecomputeFileNamesIndex migration (#13752) in 1.3.1 on e51c5 took 77 min to run #15008. The RecomputeFileNamesIndex migration is similar to [#14484](#) in that each collection is modified. The difference being that [#14484](#) also uses the Ruby sdk to parse manifest text and retrieve the file count and total file size.

##### #6 - 05/03/2019 01:37 PM - Eric Biagiotti

- Status changed from New to In Progress

Ran the migration on my machine using the production database from e51c5 with 4228696 collections (2555374 distinct pdhs).

The migration took 291 minutes. Approximately 871896 collections per hour.

My machine:

```
CPU(s) : 8
Thread(s) per core: 2
Core(s) per socket: 4
Socket(s) : 1
Model name: Intel(R) Core(TM) i7-8550U CPU @ 1.80GHz
```

Additionally, as a very rough estimate, parsing took ~.003 milliseconds per manifest, while each database commit took ~6 milliseconds.

##### #7 - 05/08/2019 03:11 PM - Eric Biagiotti

- Status changed from In Progress to Resolved

##### #8 - 05/21/2019 10:27 PM - Tom Morris

- Release set to 15