**rgw - Feature #40456**

**rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only)**

06/19/2019 09:43 PM - Matt Benjamin

<table>
<thead>
<tr>
<th>Status</th>
<th>Resolved</th>
<th>% Done:</th>
<th>0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Priority</td>
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<td>Spent time:</td>
<td>0.00 hour</td>
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<tr>
<td>Category:</td>
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<tr>
<td>Target version:</td>
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<td>Source:</td>
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<td>Tags:</td>
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<tr>
<td>Backport:</td>
<td>nautilus, mimic, luminous</td>
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<tr>
<td>Pull request ID:</td>
<td>28664</td>
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**Description**

For objects originating in S3/Swift, it is frequently acceptable to synthesize c/mtime and size stats from meta attributes in the RGW bucket index entry.

Synthetic stat behavior is not compatible with mutation of file ownership and permissions via SETATTR. In future, current xattr-based, mutable, Unix stats may be moved to the bucket index. For now, use synthetic stats only when a new option `rgw_nfs_s3_fast_atrs` is present.

**Related issues:**

- Copied to Backport #40595: luminous: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added
  - Rejected

- Copied to Backport #40596: mimic: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added
  - Resolved

- Copied to Backport #40597: nautilus: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added
  - Resolved

**History**

#1 - 06/19/2019 09:48 PM - Matt Benjamin
- Status changed from In Progress to Fix Under Review
- Pull request ID set to 28664

#2 - 06/28/2019 11:11 PM - Matt Benjamin
- Status changed from Fix Under Review to Pending Backport

#3 - 06/30/2019 08:43 AM - Nathan Cutler
- Copied to Backport #40595: luminous: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added

#4 - 06/30/2019 08:43 AM - Nathan Cutler
- Copied to Backport #40596: mimic: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added

#5 - 06/30/2019 08:44 AM - Nathan Cutler
- Copied to Backport #40597: nautilus: rgw_file: directory enumeration can be accelerated 1-2 orders of magnitude taking stats from bucket index Part I (stats from S3/Swift only) added

#6 - 01/27/2021 07:10 PM - Nathan Cutler
- Status changed from Pending Backport to Resolved
While running with --resolve-parent, the script "backport-create-issue" noticed that all backports of this issue are in status "Resolved" or "Rejected".