

RADOS - Bug #24025

RocksDB compression is not supported at least on Debian.

05/05/2018 08:31 PM - Марк Коренберг

Status: Resolved	% Done: 0%
Priority: Normal	Spent time: 0.00 hour
Assignee: Kefu Chai	
Category:	
Target version:	
Source:	Affected Versions: v12.2.2, v12.2.3, v12.2.4, v12.2.5
Tags: rocksdb compression	ceph-qa-suite:
Backport: mimic, luminous	Component(RADOS):
Regression: No	Pull request ID:
Severity: 3 - minor	Crash signature (v1):
Reviewed:	Crash signature (v2):
Description	
rocksdb: Compression algorithms supported: rocksdb: Snappy supported: 0 rocksdb: Zlib supported: 0 rocksdb: Bzip supported: 0 rocksdb: LZ4 supported: 0 rocksdb: ZSTD supported: 0	
see #22534	
Related issues:	
Copied to RADOS - Backport #24279: luminous: RocksDB compression is not suppo...	Resolved
Copied to RADOS - Backport #24297: mimic: RocksDB compression is not supporte...	Resolved

History

#1 - 05/05/2018 08:32 PM - Марк Коренберг

I use:

deb <https://download.ceph.com/debian-luminous/> stretch main

Ceph 12.2.5 and Debian 9.

#2 - 05/14/2018 02:47 PM - Radoslaw Zarzynski

- Assignee set to Radoslaw Zarzynski

#3 - 05/22/2018 04:09 PM - Radoslaw Zarzynski

- Status changed from New to In Progress

```
void DumpSupportInfo(Logger* logger) {
    ROCKS_LOG_HEADER(logger, "Compression algorithms supported:");
    for (auto& compression : OptionsHelper::compression_type_string_map) {
        if (compression.second != kNoCompression &&
            compression.second != kDisableCompressionOption) {
```

```

        ROCKS_LOG_HEADER(logger, "\t%s supported: %d", compression.first.c_str(),
                        CompressionTypeSupported(compression.second));
    }
}
ROCKS_LOG_HEADER(logger, "Fast CRC32 supported: %s",
                crc32c::IsFastCrc32Supported().c_str());
}

```

```

inline bool CompressionTypeSupported(CompressionType compression_type) {
    switch (compression_type) {
        case kNoCompression:
            return true;
        case kSnappyCompression:
            return Snappy_Supported();
        case kZlibCompression:
            return Zlib_Supported();
        case kBZip2Compression:
            return BZip2_Supported();
        case kLZ4Compression:
            return LZ4_Supported();
        case kLZ4HCCompression:
            return LZ4_Supported();
        case kXpressCompression:
            return XPRESS_Supported();
        case kZSTDNotFinalCompression:
            return ZSTDNotFinal_Supported();
        case kZSTD:
            return ZSTD_Supported();
        default:
            assert(false);
            return false;
    }
}

```

```

inline bool Snappy_Supported() {
#ifdef SNAPPY
    return true;
#else
    return false;
#endif
}

```

It looks that the macros SNAPPY, ZLIB, ... are undefined on Debian. Need to check why.

#4 - 05/23/2018 02:53 PM - Kefu Chai

because we fail to pass -DWITH_SNAPPY etc to cmake while building rocksdb. this bug also impacts rpm package. i can help pull together a patch.

#5 - 05/23/2018 02:57 PM - Kefu Chai

- Project changed from bluestore to RADOS

- Assignee changed from Radoslaw Zarzynski to Kefu Chai

#6 - 05/23/2018 03:25 PM - Kefu Chai

- Status changed from In Progress to Fix Under Review

<https://github.com/ceph/ceph/pull/22181>

#7 - 05/23/2018 03:25 PM - Kefu Chai

- Backport set to mimic, luminous

#8 - 05/23/2018 03:27 PM - Kefu Chai

mimic: <https://github.com/ceph/ceph/pull/22183>

#9 - 05/24/2018 09:43 AM - Kefu Chai

tested

```
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb: Compression algorithms supported:
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kZSTDNotFinalCompression supported: 0
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kZSTD supported: 0
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kXpressCompression supported: 0
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kLZ4HCCompression supported: 1
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kLZ4Compression supported: 1
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kBZip2Compression supported: 0
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kZlibCompression supported: 1
2018-05-24 17:41:26.398 7f3cc22d22c0 4 rocksdb:   kSnappyCompression supported: 1
```

#10 - 05/24/2018 09:48 AM - Kefu Chai

- Status changed from Fix Under Review to Pending Backport

#11 - 05/24/2018 12:08 PM - Kefu Chai

- Copied to Backport #24279: luminous: RocksDB compression is not supported at least on Debian. added

#12 - 05/25/2018 11:03 AM - Nathan Cutler

- Copied to Backport #24297: mimic: RocksDB compression is not supported at least on Debian. added

#13 - 06/22/2018 04:43 PM - Nathan Cutler

- Status changed from Pending Backport to Resolved