

- git_commits:**

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- summary:** S3 MPU can't be created with octet-stream content-type

description: This problem is reported offline by [~shanekumpf@gmail.com]. When aws-sdk-go is used to access to s3 gateway of Ozone it sends the Multi Part Upload initialize message with "application/octet-stream" Content-Type. This Content-Type is missing from the aws-cli which is used to reimplement s3 endpoint. The problem is that we use the same rest endpoint for initialize and complete Multipart Upload request. For the completion we need the CompleteMultipartUploadRequest parameter which is parsed from the body. For initialize we have an empty body which can't be serialized to CompleteMultipartUploadRequest. The workaround is to set a specific content type from a filter which help up to create two different REST method for initialize and completion message. Here is an example to test (using bogus AWS credentials). {code} curl -H 'Host:yourhost' -H 'User-Agent:aws-sdk-go/1.15.11 (go1.11.2; linux; amd64)' -H 'Content-Length:0' -H 'Authorization:AWS4-HMAC-SHA256 Credential=qwe/20190809/ozone/s3/aws4_request, SignedHeaders=content-type;host;x-amz-acl;x-amz-content-sha256;x-amz-date;x-amz-storage-class, Signature=7726de63990ba3f41f796d4ab263f5d9c3374528840f5e49d106dbef491f22c' -H 'Content-Type:application/octet-stream' -H 'X-Amz-Acl:private' -H 'X-Amz-Content-Sha256:e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855' -H 'X-Amz-Date:20190809T070142Z' -H 'X-Amz-Storage-

Class:STANDARD' -H 'Accept-Encoding:gzip' -X POST 'http://localhost:9999/docker/docker/registry/v2/repositories/apache/ozone-runner/_uploads/2173f019-09c3-466b-bb7d-c31ce749d826/data?uploads {code}' Without the patch it returns with HTTP 405 (Not supported Media Type).

jira_issues_comments:

1. FAILURE: Integrated in Jenkins build Hadoop-trunk-Commit #17173 (See [<https://builds.apache.org/job/Hadoop-trunk-Commit/17173/>]) HDDS-1948. S3 MPU can't be created with octet-stream content-type (bharat: rev edd708527d34d0bf3b09dc35a7f645f49e7becb3) * (edit) hadoop-ozone/s3gateway/src/test/java/org/apache/hadoop/ozone/s3/endpoint/TestInitiateMultipartUpload.java * (edit) hadoop-ozone/s3gateway/src/main/java/org/apache/hadoop/ozone/s3/VirtualHostStyleFilter.java * (edit) hadoop-ozone/s3gateway/src/test/java/org/apache/hadoop/ozone/s3/endpoint/TestAbortMultipartUpload.java * (edit) hadoop-ozone/s3gateway/src/test/java/org/apache/hadoop/ozone/s3/endpoint/TestMultipartUploadComplete.java * (edit) hadoop-ozone/s3gateway/src/main/java/org/apache/hadoop/ozone/s3/endpoint/ObjectEndpoint.java * (edit) hadoop-ozone/s3gateway/src/main/java/org/apache/hadoop/ozone/s3/HeaderPreprocessor.java * (edit) hadoop-ozone/s3gateway/src/test/java/org/apache/hadoop/ozone/s3/endpoint/TestPartUpload.java * (edit) hadoop-ozone/s3gateway/src/main/java/org/apache/hadoop/ozone/s3/S3GatewayHttpServer.java * (edit) hadoop-ozone/s3gateway/src/test/java/org/apache/hadoop/ozone/s3/endpoint/TestListParts.java
2. Cherry-picked this to ozone-0.4.1.