

Bulk import data with the GraphQL Admin API

Step 1

Run staged upload create query in Graphql

Query :

```
mutation {  
  stagedUploadsCreate(input:{  
    resource: BULK_MUTATION_VARIABLES,  
    filename: "bulk_op_vars",  
    mimeType: "text/jsonl",  
    httpMethod: POST  
  }) {  
    userErrors {  
      field,  
      message  
    },  
    stagedTargets {  
      url,  
      resourceUrl,  
      parameters {  
        name,  
        value  
      }  
    }  
  }  
}
```

We will get following Response collect response add run in to command line

Response :

```
{
  "data": {
    "stagedUploadsCreate": {
      "userErrors": [],
      "stagedTargets": [
        {
          "url": "https://shopify-staged-uploads.storage.googleapis.com/",
          "resourceUrl": null,
          "parameters": [
            {
              "name": "Content-Type",
              "value": "text/jsonl"
            },
            {
              "name": "success_action_status",
              "value": "201"
            },
            {
              "name": "acl",
              "value": "private"
            },
            {
              "name": "key",
              "value": "tmp/66172649707/bulk/73d504d4-fbc9-469f-8ab7-7ae1086c4a7f/bulk_op_vars"
            },
            {
              "name": "x-goog-date",
              "value": "20230615T120843Z"
            },
            {
              "name": "x-goog-credential",
              "value": "merchant-assets@shopify-
tiers.iam.gserviceaccount.com/20230615/auto/storage/goog4_request"
            },
            {
              "name": "x-goog-algorithm",
              "value": "GOOG4-RSA-SHA256"
            }
          ]
        }
      ]
    }
  }
}
```

```

    },
    {
      "name": "x-goog-signature",
      "value":
"6bc6df48f92a53710e16f02c1b7db0ef90bc371481d24916b718dd204f84260666db07a88ea6c9
5662bed4b6933ba966f0545b964f1e6ea707679b50d5cde935fc5ae4f56b2791fe1e0b45d333ee3
70a3c13396574d21df440f0487b61bf7e805155ac6d2c54da3d5c0759035ec269b531e213ca830
ec38057bda1b7aaa8c789a60710720368b90d24268114502a5b178a0ac556ac8470b229ceef67
6e1ebba393da008802219f23006b8159ded1ec820542c22004fff6bb2c1c21975c95093aca97e8a
c2a39d86ae08ce4b3b6c080d02ab49f7605cb1b4cc4f78d8098083be02478f175e4b040ee4420b
8da037456844bd14f58f1b968a32535d3f5ca7a1221"
    },
    {
      "name": "policy",
      "value":
"eyJjb25kaXRpb25zIjpbeyJDb250ZW50LVR5cGUiOiJ0ZXh0XC9qc29ubCJ9LHsic3VjY2Vzc19h
Y3Rpb25fc3RhdHVzIjoiMjYXRlbn0sWyJjb250ZW50LWxlbmdd0aC1yYW5nZSIsMSwyMDk3MTUy
MF0seyJidWNrZXQiOiJzaG9waWZ5LXN0YWdlZC11cGxvYWRzIn0seyJrZXkiOiJ0bXBclzY2MTcy
NjQ5NzA3XC9idWxrXC83M2Q1MDRkNC1mYmM5LTQ2OWYtOGFiNy03YWUxMDg2YzRhN2ZcL2J1bG
tfc3BfdmFycyJ9LHsieC1nb29nLWRhdGUiOiIyMDIzMDYxNVVwYXV0b1wvc3RvcnFnZVwvZ29v
ZzRfcmljZWVzdCJ9LHsieC1nb29nLWFsZ29yaXR0bSIkdPT0c0LVJlJTQS1TSEYyNTYifV0sImV4
cGlyYXRpb24iOiIyMDIzLTA2LTE2VDEyOjA0OjQzWiJ9"
    }
  ],
  },
  "extensions": {
    "cost": {
      "requestedQueryCost": 11,
      "actualQueryCost": 11,
      "throttleStatus": {
        "maximumAvailable": 1000,
        "currentlyAvailable": 989,
        "restoreRate": 50
      }
    }
  }
}

```

Screenshot :

API schema Admin

API version 2023-04 (Latest)

☐ Return detailed cost

<untitled> x call <untitled> +

1 • mutation {
2 • stagedUploadsCreate(input: {
3 • resource: BULK_MUTATION_VARIABLES,
4 • filename: "bulk_op_vars",
5 • mimeType: "text/jsonl",
6 • httpMethod: POST
7 • }) {
8 • userErrors {
9 • field
10 • message
11 • },
12 • stagedTargets {
13 • url,
14 • resourceUrl,
15 • parameters {
16 • name,
17 • value
18 • }
19 • }
20 • }
21 • }
22 |

Variables

```
{  
  "data": {  
    "stagedUploadsCreate": {  
      "userErrors": [],  
      "stagedTargets": [  
        {  
          "url": "https://shopify-staged-uploads.storage.googleapis.com/",  
          "resourceUrl": null,  
          "parameters": [  
            {  
              "name": "Content-Type",  
              "value": "text/jsonl"  
            },  
            {  
              "name": "success_action_status",  
              "value": "201"  
            },  
            {  
              "name": "acl",  
              "value": "private"  
            },  
            {  
              "name": "key",  
              "value": "tmp/66172649707/bulk/73d504d4-fbc9-469f-8ab7-7ae1086c4a7f/bulk_op_vars"  
            },  
            {  
              "name": "x-goog-date",  
              "value": "20230615T120843Z"  
            },  
            {  
              "name": "x-goog-credential"  
            }  
          ]  
        }  
      ]  
    }  
  }  
}
```

Step : 2

Put Above Response in Curl command and run into command prompt

```
bulk_mutation_tests$ curl --location --request POST 'https://shocurl --location --request
POST 'https://shopify-staged-uploads.storage.googleapis.com/' \
--form 'key=tmp/66172649707/bulk/c94b9ac6-78f1-471a-af37-
5977c252b952/bulk_op_vars' \
--form 'x-goog-credential=merchant-assets@shopify-
tiers.iam.gserviceaccount.com/20230615/auto/storage/goog4_request' \
--form 'x-goog-algorithm=GOOG4-RSA-SHA256' \
--form 'x-goog-date=20230615T120021Z' \
--form 'x-goog-
signature=4540ffb1a42bcd6142579fefa06c1dfef2bf18cf962761877135a6fb6cf253dc0b
1bd7c24d8e22124d44e27865508ef288a206b921f4360ce25e5884aff48c84b1a025a314
df462d2594c074054730bf98a9d028180aa675f5990ff41d45beb7a185d2103edf7c443d0
06024aaed60c0717112eb19edc9ea803945d9b30ac7ee14c5825ae98985ad722f1ad82b
cb479ec61122bf8097603df98b3f6152d541b2b7798d3ba1f1df5e24201b662a43a696da
adce86ae1bbcc1f4f78b367bc3f6ae1b06207af2a952293592b48a1c047b4900fb182de3a
af17d764ce0ead24c37e4cf7d81ada87b698a9cda4cdb4bbae3bc22d2fd128cc3dda5cfee
ac5205b5b87b' \
--form
'policy=eyJjb25kaXRpb25zljpbeyJDb250ZW50LVR5cGUiOiJ0ZXh0XC9qc29ubCJ9LH
sic3VjY2Vzc19hY3Rpb25fc3Rh dHVzljoiMjAxIn0seyJhY2wiOiJwcmIiIn0sWyJjb25
0ZW50LWxlbm d0aC1yYW5nZSIsMSwyMDk3MTUyMF0seyJidWNrZXQiOiJzaG9waWZ
5LXN0YWdlZC11cGxvYWRzIn0seyJrZXkiOiJ0bXBcLzY2MTcyNjQ5NzA3XC9idWxrXC
9jOTRiOWFjNi03OGYxLTQ3MWEtYWYzNy01OTc3YzI1Mml5NTJcL2J1bGtfb3BfdmFy
cyJ9LHsieC1nb29nLWRhdGUiOiIyMDIzMDYxNVQxMjAwMjFhIn0seyJ4LWdvd2ctY3JIZ
GVudGh0bC16Im1lcmNoYW50LWFzc2V0c0BzaG9waWZ5LXRPZXJzLmlhbS5nc2Vydml
jZWJjY291bnQuY29tXC8yMDIzMDYxNVwvYXV0b1wvc3Rvc mFnZVwvZ29vZzRfcmVx
dWVzdCJ9LHsieC1nb29nLWFsZ29yaXRobSI6IkdPT0c0LVJTS1TSEEyNTYifV0sImV
4cGlyYXRpb24iOiIyMDIzLTA2LTE2VDEyOjAwOjlxWiJ9' \
--form 'acl=private' \
--form 'Content-Type=text/jsonl' \
--form 'success_action_status=201' \
--form 'file=@/home/ankitn/Documents/bulk_mutation_tests/products_long.jsonl'
```

Note : You need to save file in your system on mention path in this line i.e `/home/ankitn/Documents/bulk_mutation_tests/products_long.jsonl` with same name

You will get following Response if command runs Properly

```
<?xml version='1.0' encoding='UTF-8'?><PostResponse><Location>https://storage.googleapis.com/shopify-staged-uploads/tmp/66172649707/bulk/c94b9ac6-78f1-471a-af37-5977c252b952/bulk\_op\_vars</Location><Bucket>shopify-staged-uploads</Bucket><Key>tmp/66172649707/bulk/c94b9ac6-78f1-471a-af37-5977c252b952/bulk_op_vars</Key><ETag>"c78443533b945ab6de8e14fa934d7e49"</ETag></PostResponse>
```

Screenshot :

[illegible]

Step 3 :

Run following **bulkOperationRunMutation** Query on graphql to create product on your store

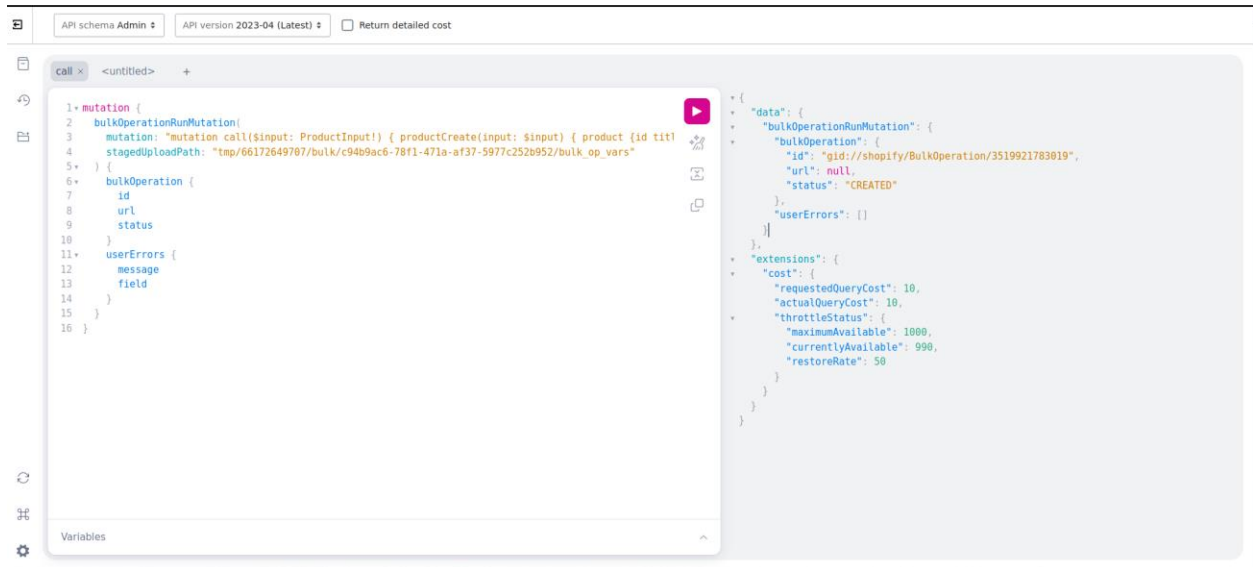
Query :

```
mutation {
  bulkOperationRunMutation(
    mutation: "mutation call($input: ProductInput!) { productCreate(input: $input) {
product {id title variants(first: 10) {edges {node {id title inventoryQuantity }}} } userErrors {
message field } } }"
    stagedUploadPath: "tmp/66172649707/bulk/c94b9ac6-78f1-471a-af37-
5977c252b952/bulk_op_vars"
  ) {
    bulkOperation {
      id
      url
      status
    }
    userErrors {
      message
      field
    }
  }
}
```

If query successfully executed you will get following output

```
{
  "data": {
    "bulkOperationRunMutation": {
      "bulkOperation": {
        "id": "gid://shopify/BulkOperation/3519921783019",
        "url": null,
        "status": "CREATED"
      },
      "userErrors": []
    }
  },
  "extensions": {
    "cost": {
      "requestedQueryCost": 10,
      "actualQueryCost": 10,
      "throttleStatus": {
        "maximumAvailable": 1000,
        "currentlyAvailable": 990,
        "restoreRate": 50
      }
    }
  }
}
```

Screenshot :



Final Output

You can check Products created on your shopify admin

