



Manage storage file moves

ONTAP 9.11.1 REST API reference

NetApp
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Manage storage file moves

Storage file moves endpoint overview

Overview

You can use this API to start a file move operation between two FlexVol volumes or within a FlexGroup volume, and view the status of all on-going file move operations in the cluster.

– GET /api/storage/file/moves

– POST /api/storage/file/moves

Examples

Moving two files from one FlexVol volume to the other FlexVol volume

```
# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves" -H "accept:
application/hal+json" -d @move_between_fv.txt
move_between_fv.txt:
{
  "files_to_move":{
    "sources":[
      {
        "svm":{
          "name":"vs0"
        },
        "volume":{
          "name":"fv1"
        },
        "path":"dir1/f1.txt"
      },
      {
        "svm":{
          "name":"vs0"
        },
        "volume":{
          "name":"fv1"
        },
        "path":"dir1/f2.txt"
      }
    ]
  }
}
```

```
"destinations":[
  {
    "svm":{
      "name":"vs0"
    },
    "volume":{
      "name":"fv2"
    },
    "path":"dir2/f1.txt"
  },
  {
    "svm":{
      "name":"vs0"
    },
    "volume":{
      "name":"fv2"
    },
    "path":"dir2/f2.txt"
  }
]
}
}

# The response:
{ }
```

Moving two files from one FlexVol volume to the other FlexVol volume (only specifying the destination directory)

```
# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves" -H "accept:
application/hal+json" -d @move_between_fv_dir.txt
move_between_fv_dir.txt:
{
"files_to_move":{
  "sources":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv1"
      },
      "path":"dir1/f3.txt"
    },
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv1"
      },
      "path":"dir1/f4.txt"
    }
  ],
  "destinations":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv2"
      },
      "path":"dir2/"
    }
  ]
}
}

# The response:
{ }
```

Moving multiple files from one FlexVol volume to the other FlexVol volume and providing a source reference file

```
# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves" -H "accept:
application/hal+json" -d @move_between_fv_source.txt
move_between_fv_source.txt:
{
"files_to_move":{
  "sources":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv1"
      },
      "path":"dir1/f5.txt"
    },
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv1"
      },
      "path":"dir1/f6.txt"
    },
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fv1"
      },
      "path":"dir1/f7.txt"
    }
  ],
"destinations":[
  {
    "svm":{
      "name":"vs0"
    },

```

```

    "volume":{
      "name":"fv2"
    },
    "path":"dir2/f5.txt"
  },
  {
    "svm":{
      "name":"vs0"
    },
    "volume":{
      "name":"fv2"
    },
    "path":"dir2/f6.txt"
  },
  {
    "svm":{
      "name":"vs0"
    },
    "volume":{
      "name":"fv2"
    },
    "path":"dir2/f700.txt"
  }
]
},
"reference":{
  "svm":{
    "name":"vs0"
  },
  "volume":{
    "name":"fv1"
  },
  "path":"dir1/f6.txt"
}
}

# The response:
{ }

```

Moving a file between two FlexGroup volume constituents in the same FlexGroup volume

```

# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves" -H "accept:
application/hal+json" -d @move_between_fg.txt
move_between_fg.txt:
{
"files_to_move":{
  "sources":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fg2"
      },
      "path":"test/file.txt"
    }
  ],
  "destinations":[
    {
      "volume":{
        "name":"fg2__0008"
      }
    }
  ]
}
}

# The response:
{ }

```

Automatically selecting a destination constituent to move a file in a FlexGroup volume for capacity rebalancing


```
# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves?automatic=true" -H
"accept: application/hal+json" -d @move_between_fg_automatic.txt
move_between_fg_automatic.txt:
{
"files_to_move":{
  "sources":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fg2"
      },
      "path":"test/file2.txt"
    }
  ]
}
}

# The response:
{ }
```

Moving a file between two FlexGroup volume constituents in the same FlexGroup volume using the "force" option

```

# The API:
/api/storage/file/moves

# The call:
curl -X POST "https://<mgmt-ip>/api/storage/file/moves?force=true" -H
"accept: application/hal+json" -d @move_between_fg_force.txt
move_between_fg_force.txt
{
"files_to_move":{
  "sources":[
    {
      "svm":{
        "name":"vs0"
      },
      "volume":{
        "name":"fg2"
      },
      "path":"test/file3.txt"
    }
  ],
  "destinations":[
    {
      "volume":{
        "name":"fg2__0008"
      }
    }
  ]
}
}

# The response:
{ }

```

Retrieving file move operations

```

# The API:
/api/storage/file/moves

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/file/moves" -H 'accept:
application/hal+json'

# The response:
{

```

```

"records": [
  {
    "node": {
      "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
      "name": "node1",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
        }
      }
    },
    "uuid": "e12bc78d-36bb-4274-8163-fb8c21d59c9b",
    "index": 0,
    "source": {
      "svm": {
        "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
        "name": "vs0"
      },
      "volume": {
        "uuid": "4e919b6d-1c76-11ec-8e1b-005056acf2dd",
        "name": "fg2__0008"
      },
      "path": "test/file2.txt"
    },
    "destination": {
      "svm": {
        "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
        "name": "vs0"
      },
      "volume": {
        "uuid": "4d14f2f6-1c76-11ec-8e1b-005056acf2dd",
        "name": "fg2__0005"
      },
      "path": "test/file2.txt"
    },
    "_links": {
      "self": {
        "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/e12bc78d-36bb-4274-8163-fb8c21d59c9b/0"
      }
    }
  },
  {
    "node": {
      "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",

```

```

    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-
005056acf2dd"
      }
    }
  },
  "uuid": "ce2af347-586d-4b31-b728-1e925f51fdfc",
  "index": 1,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
      "name": "fv1"
    },
    "path": "dir1/f2.txt"
  },
  "destination": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
      "name": "fv2"
    },
    "path": "dir2/f2.txt"
  },
  "_links": {
    "self": {
      "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-
005056acf2dd/ce2af347-586d-4b31-b728-1e925f51fdfc/1"
    }
  }
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-

```

```

005056acf2dd"
  }
}
},
"uuid": "ce2af347-586d-4b31-b728-1e925f51fdcf",
"index": 0,
"source": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv1"
  },
  "path": "dir1/f1.txt"
},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f1.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/ce2af347-586d-4b31-b728-1e925f51fdcf/0"
  }
}
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
      }
    }
  }
},

```

```

"uuid": "6d12601b-5377-43bf-99f0-b4bec37565e2",
"index": 0,
"source": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv1"
  },
  "path": "dir1/f3.txt"
},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f3.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/6d12601b-5377-43bf-99f0-b4bec37565e2/0"
  }
}
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
      }
    }
  },
  "uuid": "6d12601b-5377-43bf-99f0-b4bec37565e2",
  "index": 1,
  "source": {
    "svm": {

```

```

    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv1"
  },
  "path": "dir1/f4.txt"
},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f4.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/6d12601b-5377-43bf-99f0-b4bec37565e2/1"
  }
}
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
      }
    }
  },
  "uuid": "bbfdface-0d46-4f5f-9624-72f4869eba81",
  "index": 0,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {

```

```

    "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv1"
  },
  "path": "dir1/f5.txt"
},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f5.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/bbfdface-0d46-4f5f-9624-72f4869eba81/0"
  }
}
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
      }
    }
  },
  "uuid": "bbfdface-0d46-4f5f-9624-72f4869eba81",
  "index": 2,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
      "name": "fv1"
    },
    "path": "dir1/f7.txt"
  }
}

```



```

},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f700.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/bbfdface-0d46-4f5f-9624-72f4869eba81/2"
  }
}
},
{
  "node": {
    "uuid": "76bc12d1-10aa-11ec-a5b5-005056acf2dd",
    "name": "node1",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/76bc12d1-10aa-11ec-a5b5-005056acf2dd"
      }
    }
  },
  "uuid": "bbfdface-0d46-4f5f-9624-72f4869eba81",
  "index": 1,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "18fd9110-26f1-11ec-bf0d-005056acf2dd",
      "name": "fv1"
    },
    "path": "dir1/f6.txt"
  },
  "destination": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",

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```

    "name": "vs0"
  },
  "volume": {
    "uuid": "220bdb3a-26f1-11ec-bf0d-005056acf2dd",
    "name": "fv2"
  },
  "path": "dir2/f6.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/76bc12d1-10aa-11ec-a5b5-005056acf2dd/bbfdface-0d46-4f5f-9624-72f4869eba81/1"
  }
}
},
{
  "node": {
    "uuid": "780255d2-10aa-11ec-a308-005056acf86d",
    "name": "node2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/780255d2-10aa-11ec-a308-005056acf86d"
      }
    }
  },
  "uuid": "6591a42a-4ea2-4d40-bfb4-38959f6bd68e",
  "index": 0,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "438731dd-1c76-11ec-8e1b-005056acf2dd",
      "name": "fg2__0001"
    },
    "path": "test/file.txt"
  },
  "destination": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "4e919b6d-1c76-11ec-8e1b-005056acf2dd",

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```

    "name": "fg2__0008"
  },
  "path": "/test/file.txt"
},
"_links": {
  "self": {
    "href": "/api/storage/file/moves/780255d2-10aa-11ec-a308-005056acf86d/6591a42a-4ea2-4d40-bfb4-38959f6bd68e/0"
  }
}
},
{
  "node": {
    "uuid": "780255d2-10aa-11ec-a308-005056acf86d",
    "name": "node2",
    "_links": {
      "self": {
        "href": "/api/cluster/nodes/780255d2-10aa-11ec-a308-005056acf86d"
      }
    }
  },
  "uuid": "1a94e95a-346e-4eb3-969a-110e275cbf18",
  "index": 0,
  "source": {
    "svm": {
      "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
      "name": "vs0"
    },
    "volume": {
      "uuid": "438731dd-1c76-11ec-8e1b-005056acf2dd",
      "name": "fg2__0001"
    }
  },
  "path": "test/file3.txt"
},
"destination": {
  "svm": {
    "uuid": "5b2c8638-10bc-11ec-8e1b-005056acf2dd",
    "name": "vs0"
  },
  "volume": {
    "uuid": "4e919b6d-1c76-11ec-8e1b-005056acf2dd",
    "name": "fg2__0008"
  }
},
"path": "/test/file3.txt"
},

```

```

    "_links": {
      "self": {
        "href": "/api/storage/file/moves/780255d2-10aa-11ec-a308-005056acf86d/1a94e95a-346e-4eb3-969a-110e275cbf18/0"
      }
    }
  },
  "num_records": 10,
  "_links": {
    "self": {
      "href": "/api/storage/file/moves"
    }
  }
}

```

Retrieve all ongoing file move operations in the cluster

GET /storage/file/moves

Introduced In: 9.11

Retrieves all ongoing file move operations in the cluster.

Related ONTAP commands

- volume file move show
- volume rebalance file-move show

Parameters

Name	Type	In	Required	Description
is_flexgroup	boolean	query	False	Filter by is_flexgroup
max_cutover_time	integer	query	False	Filter by max_cutover_time
failure.arguments.message	string	query	False	Filter by failure.arguments.message
failure.arguments.code	string	query	False	Filter by failure.arguments.code

Name	Type	In	Required	Description
failure.target	string	query	False	Filter by failure.target
failure.code	string	query	False	Filter by failure.code
failure.message	string	query	False	Filter by failure.message
elapsed_time	integer	query	False	Filter by elapsed_time
is_destination_ready	boolean	query	False	Filter by is_destination_ready
is_snapshot_fenced	boolean	query	False	Filter by is_snapshot_fenced
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
max_throughput	integer	query	False	Filter by max_throughput
index	integer	query	False	Filter by index
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
source.path	string	query	False	Filter by source.path
source.volume.name	string	query	False	Filter by source.volume.name
source.volume.uuid	string	query	False	Filter by source.volume.uuid
source.svm.uuid	string	query	False	Filter by source.svm.uuid
source.svm.name	string	query	False	Filter by source.svm.name

Name	Type	In	Required	Description
destination.path	string	query	False	Filter by destination.path
destination.volume.name	string	query	False	Filter by destination.volume.name
destination.volume.uuid	string	query	False	Filter by destination.volume.uuid
destination.svm.uuid	string	query	False	Filter by destination.svm.uuid
destination.svm.name	string	query	False	Filter by destination.svm.name
volume.name	string	query	False	Filter by volume.name
volume.uuid	string	query	False	Filter by volume.uuid
scanner.progress	integer	query	False	Filter by scanner.progress
scanner.percent	integer	query	False	Filter by scanner.percent
scanner.total	integer	query	False	Filter by scanner.total
scanner.state	string	query	False	Filter by scanner.state
uuid	string	query	False	Filter by uuid
cutover_time	integer	query	False	Filter by cutover_time
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	collection_links	
num_records	integer	Number of Records
records	array[file_move]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "cutover_time": 8,
    "destination": {
      "path": "d1/d2/file1",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "volume": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "volume1",
        "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
      }
    },
    "elapsed_time": 100,
    "failure": {
      "arguments": {
        "code": "string",
        "message": "string"
      },
      "code": "4",
      "message": "entry doesn't exist",
      "target": "uuid"
    },
    "files_to_move": {
      "destinations": {
```



```

    "path": "d1/d2/file1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  },
  "sources": {
    "path": "d1/d2/file1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
},
"index": 0,
"max_cutover_time": 10,
"max_throughput": 25000,
"node": {

```

```

    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "reference": {
    "max_cutover_time": 5,
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  },
  "scanner": {
    "percent": 80,
    "progress": 80000,
    "state": "allocation_map",
    "total": 100000
  },
  "source": {
    "path": "d1/d2/file1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    }
  },

```

```

"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volumel",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "4fcb3159-a4ee-42b5-bb16-f752f2c430fc",
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volumel",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
}
}

```

Error

Status: Default, Error

Name	Type	Description
error	error	

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

collection_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

destination

Destination file information.

Name	Type	Description
path	string	
svm	svm	
volume	volume	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Contains the most recent failure reason for move operation.

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

destinations

Name	Type	Description
path	string	
svm	svm	
volume	volume	

sources

Name	Type	Description
path	string	
svm	svm	
volume	volume	

files_to_move

A list of source files along with the destination file they are moved to. If the terminal path component of

the destination is a directory, then the source file's basename is replicated in that directory. This is only used for FlexVol volume file move operations.

Name	Type	Description
destinations	array[destinations]	The destination file information.
sources	array[sources]	The source file information.

node

Node hosting the destination of this move operation.

Name	Type	Description
_links	_links	
name	string	
uuid	string	

svm

SVM of the source reference file.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Volume of the source reference file.

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

reference

Name	Type	Description
max_cutover_time	integer	The maximum amount of time, in seconds that the source reference file can be quiesced before the corresponding destination file must be made available for read-write traffic. Not supported in FlexGroup volume file move operations.
path	string	The source reference file. If a reference file is specified, data for other files being moved will be transferred as a difference from the reference file. This can save bandwidth and destination storage if the specified source files share blocks. If provided, this input must match one of the source file paths. This input need not be provided if only one source file is specified. Not supported in FlexGroup volume file move operations.
svm	svm	SVM of the source reference file.
volume	volume	Volume of the source reference file.

scanner

Name	Type	Description
percent	integer	Scanner progress, as a percentage.
progress	integer	Scanner progress, in bytes scanned.
state	string	Status of the file move scanner.
total	integer	Total bytes to be scanned.

source

Source file information.

Name	Type	Description
path	string	
svm	svm	
volume	volume	

svm

SVM of the FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6

file_move

Details of a file move operation.

Name	Type	Description
cutover_time	integer	Time that the file move operation takes before cutover completes, in seconds.
destination	destination	Destination file information.

Name	Type	Description
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	error	Contains the most recent failure reason for move operation.
files_to_move	files_to_move	A list of source files along with the destination file they are moved to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory. This is only used for FlexVol volume file move operations.
index	integer	An additional unique element identifying one file among many that could possibly be moved as part of a job. File index is an identifier ordered by the file path arrays provided during create. For file move operations that involve only one file, the file-index value of zero is always correct.
is_destination_ready	boolean	Indicates whether the destination file is ready for use.
is_flexgroup	boolean	Indicates whether this is a FlexGroup file move operation.
is_snapshot_fenced	boolean	Indicates whether Snapshot copies are fenced.
max_cutover_time	integer	The maximum amount of time, in seconds that the source can be quiesced before a destination file must be made available for read-write traffic. Not supported in FlexGroup volume file move operations.

Name	Type	Description
max_throughput	integer	Maximum amount of data, in bytes that can be transferred per second in support of this operation. A non-zero value less than 1 MB/s is set to 1 MB/s. A non-zero value greater than 1 MB/s is truncated to the nearest integral megabyte value. If unspecified, the default value is "0" which means no range is set for the data transfer.
node	node	Node hosting the destination of this move operation.
reference	reference	
scanner	scanner	
source	source	Source file information.
svm	svm	SVM of the FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.
uuid	string	The UUID which uniquely identifies the job that started this move operation.
volume	volume	FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Start a file move operation

POST /storage/file/moves

Introduced In: 9.11

Starts a file move operation. This API can be used to move files from one FlexVol volume to another FlexVol volume or within a FlexGroup volume for capacity rebalancing. For a FlexGroup volume file move operation, only one source file can be specified in `files_to_move`. The source volume is the FlexGroup volume. The destination volume is the destination FlexGroup volume constituent to move the file to. When `automatic` is true, destination volume is not required. The source path is the path to the file to be moved within the FlexGroup volume. If the destination path is specified, it must be the same as the source path.

Required properties for file move operation

- `files_to_move` - List of files with the destination they are to be moved to.

Optional properties for file move operation

- `reference` - The source reference file for moving multiple files.

Default property values

- `max_throughput` - 0
- `max_cutover_time` - 10
- `reference.max_cutover_time` - 10

Related ONTAP commands

- `volume file move start`
- `volume rebalance file-move start`

Parameters

Name	Type	In	Required	Description
force	boolean	query	False	If true, the FlexGroup volume file move operation breaks the existing lock state on the file being moved. Breaking the lock state may cause a disruption for some client applications. <ul style="list-style-type: none">• Default value:

Name	Type	In	Required	Description
automatic	boolean	query	False	If true, the FlexGroup volume file move operation selects the destination constituent automatically. <ul style="list-style-type: none"> • Default value:
return_records	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"> • Default value:

Request Body

Name	Type	Description
cutover_time	integer	Time that the file move operation takes before cutover completes, in seconds.
destination	destination	Destination file information.
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	error	Contains the most recent failure reason for move operation.
files_to_move	files_to_move	A list of source files along with the destination file they are moved to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory. This is only used for FlexVol volume file move operations.

Name	Type	Description
index	integer	An additional unique element identifying one file among many that could possibly be moved as part of a job. File index is an identifier ordered by the file path arrays provided during create. For file move operations that involve only one file, the file-index value of zero is always correct.
is_destination_ready	boolean	Indicates whether the destination file is ready for use.
is_flexgroup	boolean	Indicates whether this is a FlexGroup file move operation.
is_snapshot_fenced	boolean	Indicates whether Snapshot copies are fenced.
max_cutover_time	integer	The maximum amount of time, in seconds that the source can be quiesced before a destination file must be made available for read-write traffic. Not supported in FlexGroup volume file move operations.
max_throughput	integer	Maximum amount of data, in bytes that can be transferred per second in support of this operation. A non-zero value less than 1 MB/s is set to 1 MB/s. A non-zero value greater than 1 MB/s is truncated to the nearest integral megabyte value. If unspecified, the default value is "0" which means no range is set for the data transfer.
node	node	Node hosting the destination of this move operation.
reference	reference	
scanner	scanner	
source	source	Source file information.

Name	Type	Description
svm	svm	SVM of the FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.
uuid	string	The UUID which uniquely identifies the job that started this move operation.
volume	volume	FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

Example request

```
{
  "cutover_time": 8,
  "destination": {
    "path": "d1/d2/file1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  },
  "elapsed_time": 100,
  "failure": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  },
  "files_to_move": {
    "destinations": {
      "path": "d1/d2/file1",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  }
}
```



```

    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  },
  "sources": {
    "path": "d1/d2/file1",
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "volume": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "volume1",
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
    }
  }
},
"index": 0,
"max_cutover_time": 10,
"max_throughput": 250000,
"node": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "node1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"reference": {

```

```

"max_cutover_time": 5,
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volume1",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
},
"scanner": {
  "percent": 80,
  "progress": 80000,
  "state": "allocation_map",
  "total": 100000
},
"source": {
  "path": "d1/d2/file1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volume1",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
}

```

```

},
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
},
"name": "svm1",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "4fcb3159-a4ee-42b5-bb16-f752f2c430fc",
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
},
"name": "volume1",
"uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
}

```

Response

Status: 201, Created

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
7012352	File locations are inconsistent. All files must be on the same volume.
7012353	Exceeded the file operations supported number of files.
7012354	Unable to pair the number of source files to destination files.
7012357	Cannot start a file operation until all cluster nodes support the file operations capability.

Error Code	Description
7012358	The specified source path is invalid.
7012359	The specified destination path is invalid.
7012360	The SVMs are not in an intracluster peering relationship.
7012361	The SVMs peering relationship does not include application "file-move".
7012362	The SVMs are not yet in a peered state.
7012363	Cannot move files. All file operations must be managed by the destination SVM's administrator.
7012365	Copying a file between clusters is not supported.
7012367	A reference path may only be specified if multiple source paths are specified.
7012368	The reference path must have a matching source path.
7012371	The reference cutover time exceeds the maximum allowable time.
7012374	Source volume and destination volume have different home clusters.
7012376	Operation not allowed on a volume that is part of a SnapMirror Synchronous relationship.
7012377	Cannot start a file move operation on the volume because an active volume conversion is in progress.
144179206	Source file does not exist.
144179207	Volume capacity balancing requires an effective cluster version of 9.10.1 or later.
144180200	Destination constituent not a member of FlexGroup volume.
144180201	Destination constituent not properly configured.
144180206	File movement with automatic destination constituent selection only supported on FlexGroup volumes with more than one constituent.
196608143	Cannot start the operation. The volume is undergoing a secure purge operation.

Name	Type	Description
error	error	

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

svm

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">• example: 028baa66-41bd-11e9-81d5-00a0986138f7• Introduced in: 9.6

destination

Destination file information.

Name	Type	Description
path	string	
svm	svm	
volume	volume	

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Contains the most recent failure reason for move operation.

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

destinations

Name	Type	Description
path	string	
svm	svm	
volume	volume	

sources

Name	Type	Description
path	string	
svm	svm	
volume	volume	

files_to_move

A list of source files along with the destination file they are moved to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory. This is only used for FlexVol volume file move operations.

Name	Type	Description
destinations	array[destinations]	The destination file information.

Name	Type	Description
sources	array[sources]	The source file information.

node

Node hosting the destination of this move operation.

Name	Type	Description
_links	_links	
name	string	
uuid	string	

svm

SVM of the source reference file.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Volume of the source reference file.

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6

reference

Name	Type	Description
max_cutover_time	integer	The maximum amount of time, in seconds that the source reference file can be quiesced before the corresponding destination file must be made available for read-write traffic. Not supported in FlexGroup volume file move operations.
path	string	The source reference file. If a reference file is specified, data for other files being moved will be transferred as a difference from the reference file. This can save bandwidth and destination storage if the specified source files share blocks. If provided, this input must match one of the source file paths. This input need not be provided if only one source file is specified. Not supported in FlexGroup volume file move operations.
svm	svm	SVM of the source reference file.
volume	volume	Volume of the source reference file.

scanner

Name	Type	Description
percent	integer	Scanner progress, as a percentage.
progress	integer	Scanner progress, in bytes scanned.
state	string	Status of the file move scanner.
total	integer	Total bytes to be scanned.

source

Source file information.

Name	Type	Description
path	string	
svm	svm	
volume	volume	

svm

SVM of the FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

Name	Type	Description
_links	_links	
name	string	The name of the volume.
uuid	string	<p>Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move.</p> <ul style="list-style-type: none"> • example: 028baa66-41bd-11e9-81d5-00a0986138f7 • Introduced in: 9.6

file_move

Details of a file move operation.

Name	Type	Description
cutover_time	integer	Time that the file move operation takes before cutover completes, in seconds.
destination	destination	Destination file information.

Name	Type	Description
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	error	Contains the most recent failure reason for move operation.
files_to_move	files_to_move	A list of source files along with the destination file they are moved to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory. This is only used for FlexVol volume file move operations.
index	integer	An additional unique element identifying one file among many that could possibly be moved as part of a job. File index is an identifier ordered by the file path arrays provided during create. For file move operations that involve only one file, the file-index value of zero is always correct.
is_destination_ready	boolean	Indicates whether the destination file is ready for use.
is_flexgroup	boolean	Indicates whether this is a FlexGroup file move operation.
is_snapshot_fenced	boolean	Indicates whether Snapshot copies are fenced.
max_cutover_time	integer	The maximum amount of time, in seconds that the source can be quiesced before a destination file must be made available for read-write traffic. Not supported in FlexGroup volume file move operations.

Name	Type	Description
max_throughput	integer	Maximum amount of data, in bytes that can be transferred per second in support of this operation. A non-zero value less than 1 MB/s is set to 1 MB/s. A non-zero value greater than 1 MB/s is truncated to the nearest integral megabyte value. If unspecified, the default value is "0" which means no range is set for the data transfer.
node	node	Node hosting the destination of this move operation.
reference	reference	
scanner	scanner	
source	source	Source file information.
svm	svm	SVM of the FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.
uuid	string	The UUID which uniquely identifies the job that started this move operation.
volume	volume	FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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