



# **Manage storage file moves**

ONTAP 9.15.1 REST API reference

NetApp  
September 11, 2024

# Table of Contents

- Manage storage file moves ..... 1
  - Storage file moves endpoint overview ..... 1
  - Retrieve all ongoing file move operations in the cluster ..... 21
  - Start a file move operation ..... 39
  - Check the status of an active file move operation ..... 58

# 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.

&ndash; GET /api/storage/file/moves

&ndash; GET /api/storage/file/moves/{node.uuid}/{uuid}/{index}

&ndash; 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" and "disruptive" options**

```

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

# The call:
curl -X POST "https://<mgmt-
ip>/api/storage/file/moves?force=true&disruptive=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-b728-1e925f51fdcf",
  "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-b728-1e925f51fdcf/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",
    "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",
    "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"
  }
}
}
}

```

### Retrieving all moves in a file move operation

```

# The API:
/api/storage/file/moves/{node.uuid}/{uuid}/{index}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/file/moves/*/ce2af347-586d-4b31-b728-1e925f51fdcf/*" -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": "ce2af347-586d-4b31-b728-1e925f51fdcf",
      "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-b728-1e925f51fdcf/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"
  }
}
],
"num_records": 2,
"_links": {
  "self": {
    "href": "/api/storage/file/moves/*/ce2af347-586d-4b31-b728-1e925f51fdcf"
  }
}
}
}

```

### Retrieving a specific file move in a file move operation

```

# The API:
/api/storage/file/moves/{node.uuid}/{uuid}/{index}

# The call:
curl -X GET "https://<mgmt-ip>/api/storage/file/moves/*/ce2af347-586d-4b31-b728-1e925f51fdcf/1" -H 'accept: application/hal+json'

# The response:
{
  "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"
  }
}
}
}

```

## 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
<code>cutover_time</code>	integer	query	False	Filter by <code>cutover_time</code>
<code>scanner.state</code>	string	query	False	Filter by <code>scanner.state</code>
<code>scanner.percent</code>	integer	query	False	Filter by <code>scanner.percent</code>
<code>scanner.total</code>	integer	query	False	Filter by <code>scanner.total</code>
<code>scanner.progress</code>	integer	query	False	Filter by <code>scanner.progress</code>
<code>source.path</code>	string	query	False	Filter by <code>source.path</code>
<code>source.svm.uuid</code>	string	query	False	Filter by <code>source.svm.uuid</code>
<code>source.svm.name</code>	string	query	False	Filter by <code>source.svm.name</code>
<code>source.volume.uuid</code>	string	query	False	Filter by <code>source.volume.uuid</code>
<code>source.volume.name</code>	string	query	False	Filter by <code>source.volume.name</code>
<code>is_snapshot_fenced</code>	boolean	query	False	Filter by <code>is_snapshot_fenced</code>
<code>uuid</code>	string	query	False	Filter by <code>uuid</code>
<code>destination.path</code>	string	query	False	Filter by <code>destination.path</code>



Name	Type	In	Required	Description
destination.svm.uuid	string	query	False	Filter by destination.svm.uuid
destination.svm.name	string	query	False	Filter by destination.svm.name
destination.volume.uuid	string	query	False	Filter by destination.volume.uuid
destination.volume.name	string	query	False	Filter by destination.volume.name
is_destination_ready	boolean	query	False	Filter by is_destination_ready
max_throughput	integer	query	False	Filter by max_throughput
node.uuid	string	query	False	Filter by node.uuid
node.name	string	query	False	Filter by node.name
max_cutover_time	integer	query	False	Filter by max_cutover_time
failure.code	string	query	False	Filter by failure.code
failure.message	string	query	False	Filter by failure.message
failure.arguments.message	string	query	False	Filter by failure.arguments.message
failure.arguments.code	string	query	False	Filter by failure.arguments.code
index	integer	query	False	Filter by index
is_flexgroup	boolean	query	False	Filter by is_flexgroup

Name	Type	In	Required	Description
volume.uuid	string	query	False	Filter by volume.uuid
volume.name	string	query	False	Filter by volume.name
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
elapsed_time	integer	query	False	Filter by elapsed_time
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
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"> <li>• Default value: 1</li> </ul>
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"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">collection_links</a>	
num_records	integer	Number of Records
records	array[ <a href="#">file_move</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "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": "volumel",
          "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
        }
      },
      "elapsed_time": 100,
      "failure": {
        "arguments": [
          {
            "code": "string",
            "message": "string"
          }
        ],
        "code": "4",
        "message": "entry doesn't exist"
      }
    }
  ]
}
```

```

},
"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,
    "path": "string",
    "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"
    }
  },
  "scanner": {
    "percent": 80,
    "progress": 80000,
    "state": "string",
    "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"
}
}
]
}

```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">returned_error</a>	

### 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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.

Name	Type	Description
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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

#### destination

Destination file information.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

#### 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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

#### destinations

Path for file move operation.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

sources

Path for file move operation.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

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[ <a href="#">destinations</a> ]	The destination file information.
sources	array[ <a href="#">sources</a> ]	The source file information.

node

Node hosting the destination of this move operation.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	
uuid	string	

svm

SVM of the source reference file.

Name	Type	Description
_links	<a href="#">_links</a>	

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### volume

Volume of the source reference file.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

#### reference

Reference file information.

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.

Name	Type	Description
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	SVM, applies only to SVM-scoped objects.
volume	volume	

#### svm

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

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

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

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul>

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	<a href="#">destination</a>	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	<a href="#">node</a>	Node hosting the destination of this move operation.
reference	<a href="#">reference</a>	Reference file information.
scanner	<a href="#">scanner</a>	
source	<a href="#">source</a>	Source file information.
svm	<a href="#">svm</a>	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	<a href="#">volume</a>	FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	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"><li>• Default value:</li></ul>

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"> <li>• Default value:</li> </ul>
disruptive	boolean	query	False	If true, the FlexGroup volume file move operation is disruptive to the clients. The file handle of the file being moved changes. If false, the file handle remains the same. The non-disruptive file move operation is only available on FlexGroup volumes with granular data property enabled.  <ul style="list-style-type: none"> <li>• Default value:</li> <li>• Introduced in: 9.12</li> </ul>
return_records	boolean	query	False	The default is false. If set to true, the records are returned.  <ul style="list-style-type: none"> <li>• Default value:</li> </ul>

## Request Body

Name	Type	Description
cutover_time	integer	Time that the file move operation takes before cutover completes, in seconds.
destination	<a href="#">destination</a>	Destination file information.

Name	Type	Description
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	<a href="#">error</a>	Contains the most recent failure reason for move operation.
files_to_move	<a href="#">files_to_move</a>	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	<a href="#">node</a>	Node hosting the destination of this move operation.
reference	<a href="#">reference</a>	Reference file information.
scanner	<a href="#">scanner</a>	
source	<a href="#">source</a>	Source file information.
svm	<a href="#">svm</a>	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	<a href="#">volume</a>	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"
  },
  "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": "volumel",
        "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": "volumel",
            "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,
    "path": "string",
    "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": "string",
    "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

## Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## Error

Status: Default

## ONTAP Error Response Codes



Error Code	Description
918236	The specified "volume.uuid" and "volume.name" do not refer to the same volume.
2621462	SVM <code>svm.name</code> does not exist.
2621706	The specified "svm.uuid" and "svm.name" do not refer to the same SVM.
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.
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.
7012364	Cannot move file from SVM "svm.name" to SVM "svm.name". Moving a file between SVMs is not supported.
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.
7013352	One or more source files must be specified in "files_to_move.sources".

<b>Error Code</b>	<b>Description</b>
7013353	One or more destination files or directories must be specified in "files_to_move.destinations".
7013354	"path" must be specified.
7013355	Moving files between FlexVol volumes and FlexGroup volumes or constituents is not supported.
7013356	Moving files between FlexVol volumes and FlexGroup constituents is not supported.
7013357	The specified volume could not be found.
7013358	The specified SVM or volume UUID could not be found.
7013359	The SVM and volume must both be provided.
7018861	Cannot start the file operation. The volume is offline.
7018877	Maximum combined total (50) of file and LUN copy and move operations reached. When one or more of the operations has completed, try the command again.
7018937	The file is already on the destination constituent.
13107222	Internal error.
13107415	Failed to lookup a volume property.
13107431	Failed to lookup an SVM property.
13109260	Failed to enable granular data on the volume.
144179201	The file move start operation failed.
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.
144180203	Volume capacity rebalancing is not supported on FlexCache volumes.
144180204	Volume capacity rebalancing is not supported on object store volumes.
144180205	The system is busy.
144180207	Volume capacity rebalancing is not supported on inactive MetroCluster configurations.
144180208	Disruptive file movement is not supported when granular data is enabled on the volume. Try the operation again using "disruptive=false".

Error Code	Description
144181200	Too many source or destination files are specified for a file move within a FlexGroup volume. There must be one source file identifying a file on a FlexGroup volume and either zero or one destination files identifying the destination constituent.
144181201	For a file move within a FlexGroup volume, the source volume must be a FlexGroup volume, and the destination volume must be a constituent.
144181202	The specified source volume UUID is for a constituent. For a file move within a FlexGroup volume, the source volume must be a FlexGroup volume, and the destination volume must be a constituent.
144181203	A destination constituent must be provided in "files_to_move.destinations" if it is not being selected automatically. Use the "automatic" query to enable automatic destination constituent selection.
144181204	A destination constituent is provided while automatic destination constituent selection is enabled with the "automatic" query.
144181205	The destination volume is not a constituent. For a file move within a FlexGroup volume, the destination volume must be a constituent of the source FlexGroup volume.
144181207	The destination constituent SVM is not the same as the source SVM. For a file move within a FlexGroup volume, the destination constituent must be a constituent of the source FlexGroup volume.
144181208	The destination file path is different from the source file path. For a file move within a FlexGroup volume, the path of the source file does not change.
144181209	The specified SVM for the destination constituent differs from the SVM of the source FlexGroup volume. For a file move within a FlexGroup volume, the destination constituent must be a constituent of the source FlexGroup volume.
144181210	The "force" parameter is not supported unless the "disruptive" parameter is specified as "true".
144182201	Volume capacity rebalancing using non-disruptive file move operations and granular data requires an effective cluster version of 9.11.1 or later.
144182228	Operation is not supported on FlexGroup volumes with only one constituent.
196608143	Cannot start the operation. The volume is undergoing a secure purge operation.

Also see the table of common errors in the [Response body](#) overview section of this documentation.

Name	Type	Description
error	<a href="#">returned_error</a>	

### 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	<a href="#">href</a>	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul>

destination

Destination file information.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

destinations

Path for file move operation.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

sources

Path for file move operation.

Name	Type	Description
path	string	

Name	Type	Description
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

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[ <a href="#">destinations</a> ]	The destination file information.
sources	array[ <a href="#">sources</a> ]	The source file information.

node

Node hosting the destination of this move operation.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	
uuid	string	

svm

SVM of the source reference file.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

Volume of the source reference file.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

reference

Reference file information.

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	<a href="#">svm</a>	SVM of the source reference file.



Name	Type	Description
volume	<a href="#">volume</a>	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	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

#### svm

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

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### volume

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

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

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	<a href="#">destination</a>	Destination file information.
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	<a href="#">error</a>	Contains the most recent failure reason for move operation.
files_to_move	<a href="#">files_to_move</a>	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	<a href="#">node</a>	Node hosting the destination of this move operation.
reference	<a href="#">reference</a>	Reference file information.
scanner	<a href="#">scanner</a>	
source	<a href="#">source</a>	Source file information.

Name	Type	Description
svm	<a href="#">svm</a>	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	<a href="#">volume</a>	FlexGroup volume in file move operation. Only used in a FlexGroup volume file move operation.

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Check the status of an active file move operation

GET /storage/file/moves/{node.uuid}/{uuid}/{index}

Introduced In: 9.12

### Overview

Retrieve the status of an on-going file move operation.

### Related ONTAP commands

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

### Parameters

Name	Type	In	Required	Description
node.uuid	string	path	True	Unique identifier of the node.
uuid	string	path	True	Unique identifier of the file move operation.
index	integer	path	True	The index of the file move within the overall operation
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
cutover_time	integer	Time that the file move operation takes before cutover completes, in seconds.
destination	<a href="#">destination</a>	Destination file information.
elapsed_time	integer	Time elapsed since the start of the file move operation, in seconds.
failure	<a href="#">error</a>	Contains the most recent failure reason for move operation.
files_to_move	<a href="#">files_to_move</a>	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	<a href="#">node</a>	Node hosting the destination of this move operation.
reference	<a href="#">reference</a>	Reference file information.
scanner	<a href="#">scanner</a>	
source	<a href="#">source</a>	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 response

```
{
  "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"
  },
  "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": "volumel",
    "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": "volumel",
      "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,
    "path": "string",
    "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": "string",
    "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"
}
}

```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">returned_error</a>	

## 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	<a href="#">href</a>	

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul>

destination

Destination file information.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message

destinations

Path for file move operation.

Name	Type	Description
path	string	
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

sources

Path for file move operation.

Name	Type	Description
path	string	

Name	Type	Description
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

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[ <a href="#">destinations</a> ]	The destination file information.
sources	array[ <a href="#">sources</a> ]	The source file information.

node

Node hosting the destination of this move operation.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	
uuid	string	

svm

SVM of the source reference file.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

volume

Volume of the source reference file.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> <li>• Introduced in: 9.6</li> <li>• x-nullable: true</li> </ul>

reference

Reference file information.

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	<a href="#">svm</a>	SVM of the source reference file.



Name	Type	Description
volume	<a href="#">volume</a>	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	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
volume	<a href="#">volume</a>	

#### svm

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

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### volume

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

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
name	string	The name of the volume. This field cannot be specified in a POST or PATCH method.
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"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul>

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

## Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.