MICROSOFT AZURE IMPORT/EXPORT SERVICE APIS TO AZURE DATA BOX APIS MIGRATION GUIDE

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Azure Import/Export Service APIs to Azure Data Box APIs Migration

Overview

This migration guide explains the new job level APIs and service level APIs used for Azure Import/Export service.

Azure Import/Export service is used to securely import large amounts of data to Azure Blob storage and Azure Files. This service can also be used to transfer data from Azure Blob storage to disk drives and ship to on-premises sites.

Import/Export Service APIs, which are used by API developers to create and manage Import/Export jobs, are now being replaced with Azure Data Box APIs. The existing jobs created with the Azure Import/Export Service APIs will remain unaffected.

This migration guide is intended for developers who are migrating from the old Azure Import/Export Service APIs to the new Azure Data Box APIs.

Job level APIs available for Import Export:

Create a Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/jobs/{jobName}?api-version=2021-12-01
Method	PUT

Import Job Request	```{
	  "properties": {
	    "tranferType": "ImportToAzure",
	    "deviceType": "CustomerDisk",
	    "details": {
	      "contactDetails": {
	        "contactName": "Contact name",
	        "phone": "1234567890",
	        "phoneExtension": "1234",
	        "emailList": [
	          "emailId"
	        ]
	      },
	      "dataImportDetails": [
	        {
	          "accountDetails": {```

```json
              "dataAccountType": "StorageAccount",
              "storageAccountId": StorageAccountArmId"
            },
            "logCollectionLevel": "Verbose"
          }
        ],
        "shippingAddress": {
          "streetAddress1": "1020 ENTERPRISE WAY",
          "streetAddress2": "STE B",
          "city": "SUNNYVALE",
          "stateOrProvince": "CA",
          "country": "US",
          "postalCode": "94089",
          "companyName": "Microsoft",
          "addressType": "Commercial"
        },
        "jobDetailsType": "DataBoxCustomerDisk",
        "importDiskDetailsCollection": {
          "DISKID01": {
            "manifestFile": "testManifestFile1",
            "manifestHash": "testManifestHash1",
            "bitLockerKey": "testkey1"
          }
        },
        "returnToCustomerPackageDetails": {
          "carrierName": "UPS",
          "carrierAccountNumber": "123456"
        },
      }
    },
    "sku": {
      "name": "DataBoxCustomerDisk"
    },
    "location": "centralus",
    "type": "Microsoft.DataBox/jobs"
}
```

| **Export Job Request** | ```json
{
  "properties": {
    "transferType": "ExportFromAzure",
    "deviceType": "CustomerDisk",
    "details": {
      "contactDetails": {
        "contactName": "Name",
        "phone": "1234567890",
        "phoneExtension": "1234",
        "emailList": [
          "emailId"
``` |

```json
        ]
      },
      "dataExportDetails": [
        {
          "transferConfiguration": {
            "transferConfigurationType": "TransferAll",
          },
          "accountDetails": {
            "dataAccountType": "StorageAccount",
            "storageAccountId": StorageAccountArmId
          },
          "logCollectionLevel": "Verbose"
        }
      ],
      "shippingAddress": {
        "streetAddress1": "16 TOWNSEND ST",
        "streetAddress2": "UNIT",
        "streetAddress3": "1",
        "city": "San Francisco",
        "stateOrProvince": "CA",
        "country": "US",
        "postalCode": "94107",
        "companyName": "Microsoft",
        "addressType": "None"
      },
      "errorDetails": [],
      "returnToCustomerPackageDetails": {
        "carrierName": "TestCarrier",
        "carrierAccountNumber": "123456"
      }
    }
  },
  "sku": {
    "name": "DataBoxCustomerDisk"
  },
  "location": "centralus",
  "type": "Microsoft.DataBox/jobs"
}
```

Response **202 OK**	
| **Response 200 Import Job** | ```json
{
  "properties": {
    "transferType": "ImportToAzure",
    "isCancellable": true,
    "isDeletable": false,
``` |

```json
      "isShippingAddressEditable": false,
      "isPrepareToShipEnabled": false,
      "status": "Created",
      "startTime": "0001-01-01T00:00:00+00:00",
      "details": {
       "jobStages": [
         {
          "stageName": "Created",
          "displayName": "string",
          "stageStatus": "None",
          "stageTime": "0001-01-01T00:00:00+00:00",
          "jobStageDetails": {}
        }
       ],
       "importDiskDetailsCollection": {
        "disk1": {
          "manifestFile": "testManifestFile1",
          "manifestHash": "testManifestHash1",
          "diskDetailsType": "Import"
        }
       },
       "returnToCustomerPackageDetails": {
        "carrierAccountNumber": "123456",
        "carrierName": "TestCarrier"
       },
       "contactDetails": {
        "contactName": "Andrew Tribone",
        "phone": "12345678as",
        "phoneExtension": "1234",
        "emailList": [
          "emailId"
        ],
        "notificationPreference": []
       },
       "shippingAddress": {
        "streetAddress1": "16 TOWNSEND ST",
        "streetAddress2": "UNIT 1",
        "city": "San Francisco",
        "stateOrProvince": "CA",
        "country": "US",
        "postalCode": "94107",
        "companyName": "Microsoft"
       },
       "dataImportDetails": [
         {
          "accountDetails": {
            "storageAccountId": "StorageAccountArmId",
```

```
            "dataAccountType": "StorageAccount"
          }
        }
      ],
      "preferences": {
       "encryptionPreferences": {
         "doubleEncryption": "Disabled"
       }
      },
      "copyLogDetails": [],
            "copyProgress": []
    },
    "deliveryType": "NonScheduled",
    "isCancellableWithoutFee": false
  },
  "location": "centralus",
  "tags": {},
  "sku": {
   "name": "DataboxCustomerDisk"
  },
  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupname
}/providers/Microsoft.DataBox/jobs/{jobName}",
  "type": "Microsoft.DataBox/jobs"
}
```

Response 200 Export Job

```
{
  "properties": {
    "transferType": "ExportFromAzure",
    "isCancellable": true,
    "isDeletable": true,
    "isShippingAddressEditable": false,
    "isPrepareToShipEnabled": false,
    "status": "Created",
    "startTime": "0001-01-01T00:00:00+00:00",
    "details": {
     "jobStages": [
       {
         "stageName": "Created",
         "displayName": "string",
         "stageStatus": "None",
         "stageTime": "0001-01-01T00:00:00+00:00",
         "jobStageDetails": {}
       }
     ],
     "returnToCustomerPackageDetails": {
       "carrierAccountNumber": "123456",
       "carrierName": "TestCarrier"
```

```json
        },
        "contactDetails": {
         "contactName": "Andrew Tribone",
         "phone": "12345678as",
         "phoneExtension": "1234",
         "emailList": [
          "emailId"
         ],
         "notificationPreference": []
        },
        "shippingAddress": {
         "streetAddress1": "16 TOWNSEND ST",
         "streetAddress2": "UNIT 1",
         "city": "San Francisco",
         "stateOrProvince": "CA",
         "country": "US",
         "postalCode": "94107",
         "companyName": "Microsoft"
        },
        "dataExportDetails": [
         {
          "transferConfiguration": {
           "transferConfigurationType": "TransferAll"
          },
          "accountDetails": {
            "storageAccountId": "StorageAccountArmId",
            "dataAccountType": "StorageAccount"
          }
         }
        ],
        "preferences": {
         "encryptionPreferences": {
          "doubleEncryption": "Disabled"
         }
        },
        "copyLogDetails": [],
              "copyProgress": []
      },
     "deliveryType": "NonScheduled",
     "isCancellableWithoutFee": false
    },
    "location": "centralus",
    "tags": {},
    "sku": {
     "name": "DataboxCustomerDisk",
    },
```

```
  "id": "/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupname
}/providers/Microsoft.DataBox/jobs/{jobName}",
  "type": "Microsoft.DataBox/jobs"
}
```

Get information about the Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/ Microsoft.DataBox/jobs/{jobName}?api-version=2021-12-01api-version=2021-02-01
Method	GET
Request	
Response **202 OK**	Job Resource

Update some properties of the Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/ Microsoft.DataBox/jobs/{jobName}?api-version=2021-12-01api-version=2021-02-01
Method	PATCH
Request	(see below)

```
{
  "properties": {
    "details": {
      "returnPackageDetails": {
        "carrierAccountNumber": "111111",
        "carrierName": "TestCarrier"
      },
      "shippingAddress": {
        "streetAddress1": "16 TOWNSEND ST",
        "streetAddress2": "UNIT 1",
        "city": "San Francisco",
        "stateOrProvince": "CA",
        "country": "US",
        "postalCode": "94107",
        "companyName": "Microsoft",
        "addressType": "None"
      },
      "contactDetails": {
        "contactName": "Ammar Alavi",
        "phone": "1234567890",
        "phoneExtension": "1234",
        "emailList": [
          "emailId"
          ]
```

| | ```
        }
      }
    }
}
``` |
| **Response 202 OK** | Job Resource |

Delete a Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/jobs/{jobName}?api-version=2021-12-01api-version=2021-02-01
Method	DELETE
Request	
Response 202 OK	Success

Cancel a Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/jobs/{jobname}/cancel?api-version=2021-12-01
Method	POST
| **Request** | ```
{
  "reason": "cancellation reason"
}
``` |
| **Response 202 OK** | Success |
| **Error** | Job is not cancellable |

MarkDevicesShipped API for Import/Export:

Mark the disks as shipped from customer site by giving tracking details of shipment for a Data Box Import/Export job.

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/jobs/{jobName}/MarkDevicesShipped?api-version=2021-12-01
Method	POST
| **Request** | ```
{
  "deliverToDcPackageDetails":
    {
      "carrierName": "DHL",
      "trackingId": "123456"
``` |

	`    }` `}`
Response **202 OK**	Success

List customer secrets for a Data Box Import/Export job:

URL	subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/jobs/{jobName}/listCredentials?api-version=2021-12-01
Method	POST
Request	

Response
 	
202 OK
	`{`
	`  "jobName": "jobName",`
	`  "deviceType": "CustomerDisk",`
	`  "jobSecrets": {`
	`   "diskSecrets": [`
	`     {`
	`       "deviceSerialNumber": "serialNumber",`
	`       "bitLockerKey": "key",`
	`     }`
	`   ],`
	`       "carrierAccountNumber": "accountNumber"`
	`   "jobSecretsType": "CustomerDisk"`
	`  }`
	`}`

Service level APIs available for Import Export:

ListAvailableSKUs API:
Get the map of storage location to service location mapping to be used for creating Data Box Import/Export job.

URL	/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/locations/{location}/availableSkus?api-version=2021-03-01
Method	POST

Request	`{`
	`   "country": "US",`
	`    "location": "westcentralus",`
	`    "transferType": "ImportToAzure",`
	`    "skuNames": ["DataBoxCustomerDisk"]`

| Respo nse 200 O K | ```json
{
  "value": [
    {
      "sku": {
        "name": "DataBoxCustomerDisk"
      },
      "enabled": true,
      "properties": {
        "dataLocationToServiceLocationMap": [
          {
            "dataLocation": "westus",
            "serviceLocation": "westus"
          },
          {
            "dataLocation": "centralus",
            "serviceLocation": "westus"
          },
          {
            "dataLocation": "eastus",
            "serviceLocation": "westus"
          }
        ],
        "costs": [
          {
            "meterId": "297d6b49-87be-4b70-97fe-0fc31ec85287",
            "meterType": "CustomerDiskHandlingFee",
            "multiplier": 1
          }
        ],
        "apiVersions": [
          "2021-12-01"
        ]
      }
    }
  ]
}
``` |
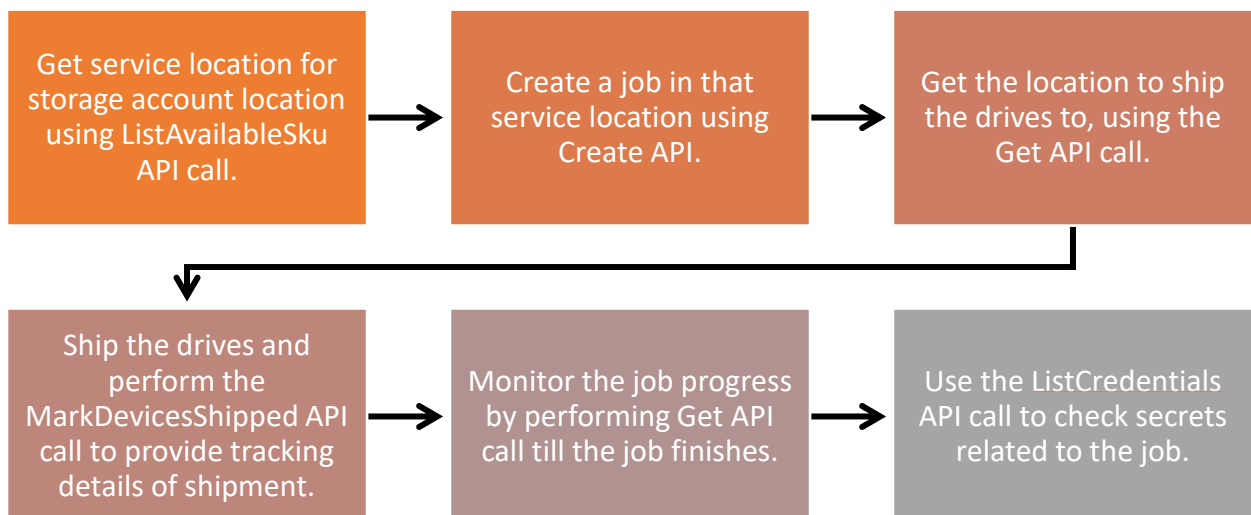
RegionConfiguration API:

Get the region configuration related to a certain service location like details of datacenter.

URL	/subscriptions/{subscriptionId}/resourceGroups/{resourceGroupName}/providers/Microsoft.DataBox/locations/{location}/regionConfiguration?api-version=2021-02-01
Method	POST
| Request | ```json
{
    "DatacenterAddressRequest": {
        "StorageLocation": "centralus",
        "SkuName": "DataBoxCustomerDisk"
    }
}
``` |
| Response 200 OK | ```json
{
    "datacenterAddressResponse": {
``` |

```
        "contactPersonName": "DSM05 Logistics",
        "company": "Microsoft",
        "street1": "550 SE White Crane Rd",
        "street2": "",
        "city": "West Des Moines",
        "state": "IA",
        "zip": "50265",
        "country": "US",
        "phone": "515-697-5500",
        "phoneExtension": "",
        "addressType": "None",
        "datacenterAddressType": "DatacenterAddressLocation",
        "supportedCarriersForReturnShipment": [
            "UPS"
        ],
        "dataCenterAzureLocation": "centralus"
    }
}
```

| 200 OK for DC with inbound id with localization | ```
{
    "datacenterAddressType": "DCContactInformation",
    "datacenterAddressResponse": {
      "communicationInstruction": "This DC has security requirements requiring advance notification for all inbound shipments.
Contact <<xxxxx@microsoft.com>> specifying your order name to receive the unique inbound ID and shipping address."
      }
    }
}
``` |

Steps involved for Import/Export usage

Comparison of Import/Export Service APIs vs Data Box APIs

1) To get the details about a location, the ListAvailableSkus and RegionConfiguration API calls are used in Data Box in place of GetLocation or ListLocations API call in Import/Export.
2) For job creation, the Data Box Import/Export Create PUT API is used in place of the Import/Export Create API.
3) For letting the service know that devices have been shipped we use the MarkDevicesShipped POST API call in Data Box instead of the PUT/PATCH API call in Import/Export.
4) For getting the secrets related to a job like the BitLocker key and customer carrier account number, the ListCredentials API call is used instead of the GetBitlockerKey API call in Import/Export.
5) To delete a Data Box Import/Export job, cancel the job using Cancel API call. Once the job is cancelled, you can then delete the job using Delete API call, instead of directly using the Delete API call in Import/Export.

References

Swagger for Data Box: [azure-rest-api-specs/specification/databox/resource-manager/Microsoft.DataBox/stable/2022-02-01 at main · Azure/azure-rest-api-specs · GitHub](#)

Swagger for Import/Export: [azure-rest-api-specs/specification/storageimportexport/resource-manager/Microsoft.ImportExport/stable/2016-11-01 at main · Azure/azure-rest-api-specs · GitHub](#)