Activity GetMetadata fails when accessing a file in a blob storage container

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Issue

When the pipeline executes, the first task is to get metadata which is linked to the blob storage and it fails with the following error:

'errorCode': '2011', 'message': 'Blob operation Failed. ContainerName: ppcsebipimport, path: RawDataInput/.', 'failureType': 'UserError', 'target': 'getFileMetaData', 'details': []

Failed connection to Blob Storage

Customer set Firewalls and virtual networks setting of the blob storage as "selected networks " instead of "All networks", and using Azure IR to connect to this blob, although Azure IP addresses were white listed , but you may meet the connection failed issue with ''Type=System.Net.WebException,Message=The remote server returned an error: (403) Forbidden.,Source=System,StackTrace= at System.Net.HttpWebRequest.GetResponse() at Microsoft.WindowsAzure.Storage.Core.Executor.Executor.ExecuteSync[T](RESTCommand`1 cmd, IRetryPolicy policy, OperationContext operationContext),'

Cause

When Azure IR and Azure Storage account are in the same region, network traffic will go through Azure internal network but not the IP addresses listed in this doc https://docs.microsoft.com/en-us/azure/data-factory/azure-integration-runtime-ip-addresses ⧉ so that whitelist Azure IR's public addresses won't allow the traffic to go through. You could refer to: https://docs.microsoft.com/en-us/azure/data-factory/azure-integration-runtime-ip-addresses#known-issue-with-azure-storage ⧉

To check the region of Azure IR:

In kusto:

```
ExecutionApiCall
| where * == "7329d742-605a-49f6-868a-5d9320eabfa2"
| project TIMESTAMP, ApiName, Status, SourceMoniker
```

TIMESTAMP	▲	ApiName	Status	SourceMoniker	
2020-02-23 21:11:38.2493018		Start	Start	SSIMHybridDeliveryAustraliaEast	
2020-02-23 21:11:38.5310441		Start	Start	SSIMHybridDeliveryAustraliaSoutheast	
2020-02-23 21:11:39.9348425		ReportState	Failed	SSIMHybridDeliveryAustraliaSoutheast	
2020-02-23 21:11:39.9527980		ReportState	InProgress	SSIMHybridDeliveryAustraliaSoutheast	
2020-02-23 21:11:40.6137732		GetState	Failed	SSIMHybridDeliveryAustraliaSoutheast	

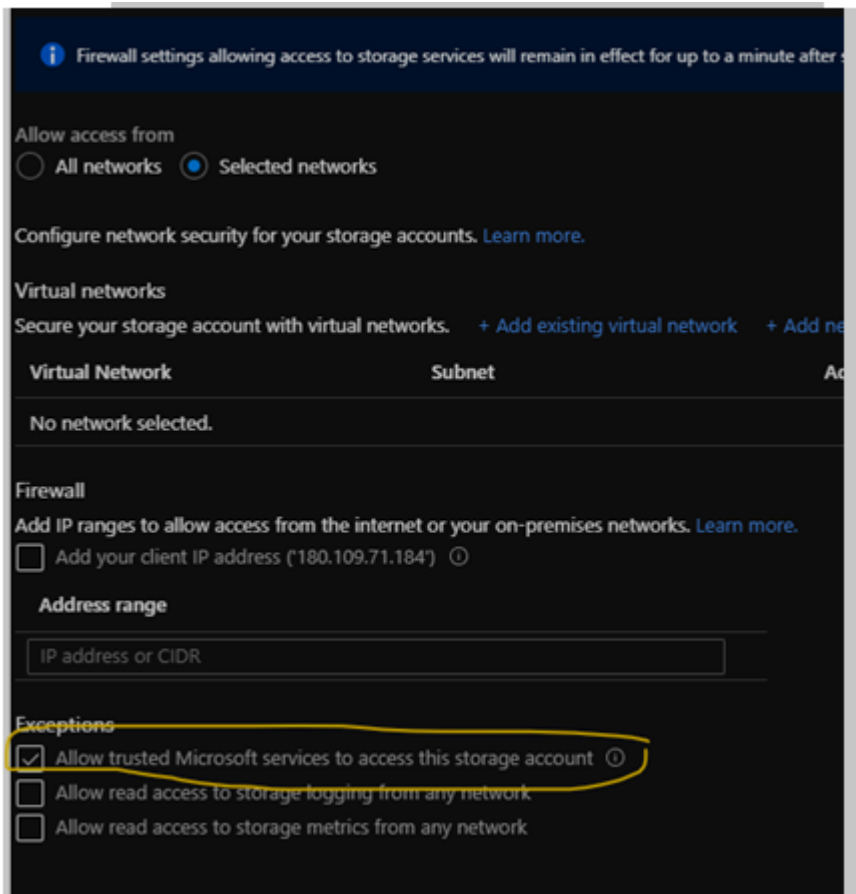Blob also at the AustraliaSoutheast region which is the same as IR.

So you must select "allow trusted MS service" instead of manually whitelisting.

https://techcommunity.microsoft.com/t5/azure-data-factory/data-factory-is-now-a-trusted-service-in-azure-storage-and-azure/ba-p/964993 ⍈

MI as Auth is necessary as well.

Resolution

1. Select "allow trusted MS service"

2. Set managed identity as Auth method for the linked service of this blob service in data factory

Additional Information:

- **Icm References:** 177234446
- **Author:** yuzhang4
- **Reviewer:** brianwan
- **Keywords:**

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