[ADLS] failed to detect region

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

	201019- [ADLS] failed to detect region		
			ASC Onboard
	Thursday, December 7, 2017 2:40 PM		

SME	
Symptoms	**Copy activity fail with the following error:** Failed to detect the region for Azure Data Lake account {XXXX}. Please make sure that the Resource Group name: XXX and subscription ID: XXXX of this Azure Data Lake Store resource are correct.

Cause	There are 2 possible reasons:
	    1. The resourceGroupName, subscriptionID is incorrect;
	    2. The user/service principal doesn't have the property permission

Resolution	1. make sure the subscriptionId, resourceGroupName you provide in the linkeservice typeProperties are indeed ones that the data lake account belongs to.
	2. [Option1] make sure you have grant at least "Reader" role to the user/Serviceprincipal on the data lake account, here is how to make it:
	    a. Go to Azure Portal, find the Data Lake Store account
	    b. Click "Access Control (IAM)" on the blade of the Data Lake Store
	    c. Click "Add" in the blade of "Access Control (IAM)"
	    d. Set "Role" to "Reader", and specify the AAD app you created
	3. [**Option2**] You can also try specify an execution location if you want to avoid this IAM change.
	    For ADFV1, executionLocation is a property for copy activity "typeProperties";
	
	``"activities":[
	  {
	    "name": "SqlServertoAzureSearchIndex",
	    "description": "copy activity",
	    "type": "Copy",
	    ....
	    "typeProperties": {
	     "source": {
	       "type": "SqlSource"
	     },
	     "sink": {
	       "type": "AzureSearchIndexSink"
	     },
	        "exeuctionLocation": "West US",
	    },
	    ...
	  }
	  ]```
	
	    For ADFV2, specify a connectVia on your AzureDataLakeStoreLinkedService to link to a CloudIR :
	``"integrationRuntimes": [
	    {
	      "name": "cloudIR",
	      "properties": {
	        "type": "Managed",
	        "typeProperties": {
	          "computeProperties": {
	            "location": "East US 2"
	          }
	        }
	      }
	    }
	  ]```

More Information	We have publicly document this for both v1 and v2 AzureDataLakeStore connector: https://docs.microsoft.com/en-us/azure/data-factory/v1/data-factory-azure-datalake-connector#troubleshooting-tips (v1) https://docs.microsoft.com/en-us/azure/data-factory/connector-azure-data-lake-store#linked-service-properties (v2)

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