

[ADLS] Fail to Authenticate by Service Principal

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

201017 - [ADLS] Fail to Authenticate by Service Principal		ASC Onboard	
Friday, March 10, 2017 10:37 AM			
<div>Error Message</div> <ul style="list-style-type: none">[Copy Wizard] Microsoft.Data.Mashup.MashupCredentialException, Message=The credentials provided for the hdfs source are invalid. (Source at https:// <Account Name>.azuredatalakestore.net/webhdfs/v1/<File Path>.),Source=Microsoft.Data.Mashup,[JSON Editor] Copy activity encountered a user error: ErrorCode=UserErrorAdlsUnauthorizedAccess,& 39 Review Content Needing Moved Active ;Type=Microsoft.Data.Transfer.Common.Shared.HybridDeliveryException,Message=The request to & 39 Review Content Needing Moved Active ;Azure Data Lake Store& 39 Review Content Needing Moved Active ; was unauthorized. <div>Conditions</div> <ul style="list-style-type: none">Use service principal for ADLS. <div>Possible Root Cause</div> <ol style="list-style-type: none">The permissions are not granted properly. There are two kind of permissions are required, Resource Management (in IAM) and Data Access (in Data Explorer). Please make sure they are properly granted. More details can be found in this Document (Paragraph: Service Principal Authentication).<ul style="list-style-type: none">If your service principal is granted as 'Owner' in IAM, the full Data Access permission is granted automatically.If your service principal is granted as 'Contributor', you need to also grant Data Access permission to your service principal. This requires at least this service principal has Read/Execute permission on the root folder. If you hit issues like "The credentials provided for the Hdfs source are invalid. (Source at https://<accountName>.azuredatalakestore.net/webhdfs/v1/somefilefolder)", please see mitigation on following section "Current Known Defect in Copy Wizard"You'd better to grant the permission of accessing root folder and all its children to your service principal. This can help you to reuse this linked service in the future.The ADLS firewall blocks the Copy/Query VM's access to ADLS account. ADLS now supports "Allow Azure Service", but if you'll going to access ADLS account from gateway, please also add the IP of your gateway machine to whitelist. <div>Current Known Defect in Copy Wizard</div> <p>Copy Wizard tries to access the first file/folder in your root folder according to alphabetical order to execute Test Connection even if it is not the file/folder you want to copy.</p> <ul style="list-style-type: none">[Mitigation 1] Grant additional Data Access permission to the specific file. (The file path you can see from error message)[Mitigation 2] Create a folder "0" (alphabetically first) and assign READ/EXECUTE permission to this folder, recursively.[Mitigation 3] Try to use JSON Editor. No additional file/folder need to be granted. In addition, the error message will be more clear if the Copy Activity is authored by JSON Editor, rather than Copy Wizard. Such trial can help to find the root cause. <div>Others</div> <ol style="list-style-type: none">The change of permission may need several minutes to take effect. Please take care this point in trouble shooting to avoid some unnecessary misleading.Contact Anqing Zhao (anqzha) if the error remains.		<div>CSS Feedback</div> <div>Please leave you feedback if yc customers</div>	

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