

Proxy and Firewall Settings of Self-Hosted Integration Runtime

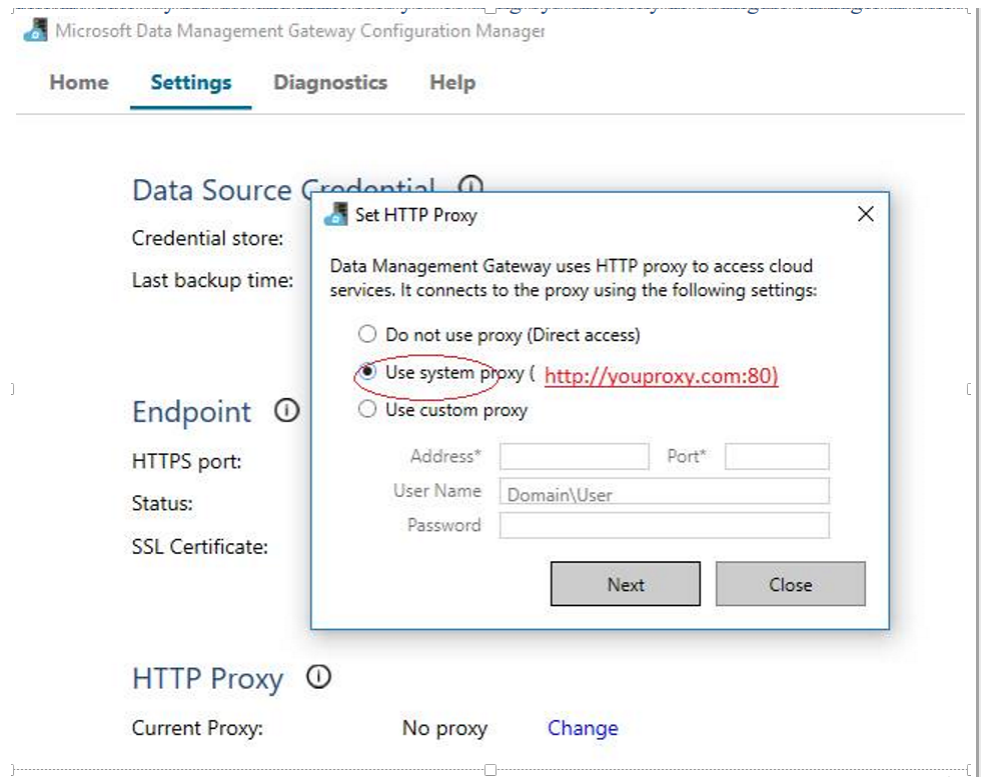
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Proxy and Firewall Settings of Self-Hosted Integration Runtime

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SME	IR SME
Symptoms	Self-Hosted IR can't connect to ADF cloud service.
Cause	Self-hosted integration runtime cannot access Internet as the corporate network requires proxy, or needs to whitelist the service endpoint
Resolution	<p>1. Setup proxy in Integration Runtime</p> <ul style="list-style-type: none"> Setup proxy through Configuration Manager https://docs.microsoft.com/en-us/azure/data-factory/data-factory-data-management-gateway#proxy-server-considerations Setup proxy through manifest files. https://docs.microsoft.com/en-us/azure/data-factory/data-factory-data-management-gateway#configure-proxy-server-settings Setup proxy through manifest files for only control flow while remaining data flow through ER <p>For this request, customer wants to make Integration Runtime direct two kinds of our web requests to different targets –the data flow requests to Azure should go through ExpressRoute, and all other requests go through their standard proxy.</p> <p>To make this happen, customers should make following actions:</p> <ul style="list-style-type: none"> Set proxy in diacmd.exe.config and diahost.exe.config. Per customer's request, below URLs should be in proxy bypass list to go through ExpressRoute directly. <p>*.core.windows.net (Copy from/to Azure Blob/Table, or Staging Copy) *.database.windows.net (Copy from/to Azure SQL/SQL DW) *.azuredatalakestore.net (Copy from/to Azure Data Lake Store) *.documents.azure.com (Copy from/to Azure Document DB)</p> <p>And the configure should be something like below, you can continue tuning below ExpRegs.</p> <pre> <system.net> <defaultProxy> <proxy usesystemdefault="true" proxyaddress="http://yourproxy.com:80" bypassonlocal="true" /> <bypasslist> <add address="*.core.windows.net \$" /> <add address="*.database.windows.net\$" /> <add address="*.azuredatalakestore.net\$" /> <add address="*.documents.azure.com \$" /> </bypasslist> </defaultProxy> </system.net> </pre> <ul style="list-style-type: none"> Restart Gateway service and make sure you're using System Proxy in Configure Manager as below.



2. Whitelist service endpoints

There are 2 endpoints need to be whitelisted for gateway running with full functionalities.

- The integration runtime cloud service endpoint

DNS name: <region>.frontend.clouddatahub.net (<region> is the short abbr. of Azure Region of the factory, like wu, eu or ne, see the complete list below).

Port: 443 (outgoing)

Scope: per region. Each Azure region has a unique DNS name and works for all factories/gateways in this region.

Impact: Without whitelisting this endpoint, the gateway cannot be online.

IR Service Available Regions (V2):

West US: wu
 Southeast Asia: sea
 North Europe: ne
 East US: eu
 East US 2: eu2
 West Europe: we
 Central US: cu
 North Central US: ncu
 South Central US: scu
 East Asia: ea
 Japan West: jpw
 Japan East: jpe
 Brazil South: brs
 Australia Southeast: aue
 Australia East: aue
 Central India: ci
 Canada Central: cac
 Canada East: cae
 West Central US: wcu
 UK South: uks
 UK West: ukw
 Korea Central: koc
 Korea South: kos
 East US 2 EUAP: eu2euap
 Central US EUAP: cueuap
 West US 2: wu2
 France Central: fc
 USGov Virginia: usgovva
 USGov Texas: usgovtx
 USGov Arizona: usgovaz
 USGov Iowa: usgovia
 USDoD Central: usdodcent
 USDoD East: usdodea

		<ul style="list-style-type: none">The Service Bus endpoint. DNS name: <namespace>.servicebus.windows.net Port: 443 (outgoing)	
More Information			
Tags			Self-Host IR, Proxy, Firewall, Network Connecti

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Region	DNS Name	IP Address
West US	wu.frontend.clouddatahub.net	138.91.227.226
Southeast Asia	sea.frontend.clouddatahub.net	23.98.73.44
North Europe	ne.frontend.clouddatahub.net	65.52.77.190
East US 2	eu2.frontend.clouddatahub.net	137.116.66.69
West Europe	we.frontend.clouddatahub.net	23.97.212.162
East US	eu.frontend.clouddatahub.net	104.45.140.139
Central US	cu.frontend.clouddatahub.net	23.101.123.184
South Central US	scu.frontend.clouddatahub.net	23.102.184.204
North Central US	ncu.frontend.clouddatahub.net	23.101.166.195
Japan East	jpe.frontend.clouddatahub.net	104.41.178.166
Brazil South	brs.frontend.clouddatahub.net	104.41.44.2
Australia East	aue.frontend.clouddatahub.net	40.126.225.148
Australia South East	ause.frontend.clouddatahub.net	40.127.92.11
Canada Central	cac.frontend.clouddatahub.net	52.233.27.3
Central India	ci.frontend.clouddatahub.net	52.172.157.73
UK South	uks.frontend.clouddatahub.net	51.140.33.7
West Central US	wcu.frontend.clouddatahub.net	52.161.21.56