

IBSNOW: Logging Errors

- Failed to load the private key based on <PRIVATE KEY>
- 400 Bad Request

Failed to load the private key based on <PRIVATE KEY>

This error generated by the com.cirruslink.ingest.snowflake.StreamingIngest logger indicates that the private/public key pair for snowflake connection is encrypted.



The key pair must be unencrypted

You will also see a stack trace similar to the one below:

```

FINEST|5210/0||26-05-22 18:22:36|net.snowflake.ingest.utils.SFException: Invalid private key, private key
should be a valid PEM RSA private key.
FINEST|5210/0||26-05-22 18:22:36|          at net.snowflake.ingest.utils.Utils.parsePrivateKey(Utils.java:244)
FINEST|5210/0||26-05-22 18:22:36|          at net.snowflake.ingest.utils.Utils.createProperties(Utils.java:155)
FINEST|5210/0||26-05-22 18:22:36|          at net.snowflake.ingest.StreamingIngest.
SnowflakeStreamingIngestClientFactory$Builder.build(SnowflakeStreamingIngestClientFactory.java:57)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.StreamingIngest.getClient
(StreamingIngest.java:324)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.StreamingIngest.
openChannel(StreamingIngest.java:230)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.SparkplugStreamingIngest.
lambda$getChannel$3(SparkplugStreamingIngest.java:372)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.ConcurrentHashMap.computeIfAbsent
(ConcurrentHashMap.java:1708)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.SparkplugStreamingIngest.
getChannel(SparkplugStreamingIngest.java:370)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.SparkplugStreamingIngest.
insert(SparkplugStreamingIngest.java:150)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.SparkplugStreamingIngest.
insert(SparkplugStreamingIngest.java:135)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.StreamingIngest.
batchInsert(StreamingIngest.java:295)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.StreamingIngest.
batchInsert(StreamingIngest.java:276)
FINEST|5210/0||26-05-22 18:22:36|          at com.cirruslink.iotbridge.snowflake.ingest.StreamingIngest.run
(StreamingIngest.java:136)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.Executors$RunnableAdapter.call
(Executors.java:539)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.FutureTask.runAndReset(FutureTask.
java:305)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.
ScheduledThreadPoolExecutor$ScheduledFutureTask.run(ScheduledThreadPoolExecutor.java:305)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.ThreadPoolExecutor.runWorker
(ThreadPoolExecutor.java:1136)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.util.concurrent.ThreadPoolExecutor$Worker.run
(ThreadPoolExecutor.java:635)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.lang.Thread.run(Thread.java:840)
FINEST|5210/0||26-05-22 18:22:36|Caused by: java.security.spec.InvalidKeySpecException: java.security.
InvalidKeyException: IOException : DerValue.getBigIntegerInternal, not expected 48
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.rsa.RSAKeyFactory.engineGeneratePrivate
(RSAKeyFactory.java:253)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/java.security.KeyFactory.generatePrivate(KeyFactory.java:
389)
FINEST|5210/0||26-05-22 18:22:36|          at net.snowflake.ingest.utils.Utils.parsePrivateKey(Utils.java:242)
FINEST|5210/0||26-05-22 18:22:36|          ... 18 common frames omitted
FINEST|5210/0||26-05-22 18:22:36|Caused by: java.security.InvalidKeyException: IOException : DerValue.
getBigIntegerInternal, not expected 48
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.pkcs.PKCS8Key.decode(PKCS8Key.java:135)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.pkcs.PKCS8Key.<init>(PKCS8Key.java:95)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.rsa.RSAPrivateCrtKeyImpl.<init>
(RSAPrivateCrtKeyImpl.java:162)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.rsa.RSAPrivateCrtKeyImpl.newKey
(RSAPrivateCrtKeyImpl.java:92)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.rsa.RSAKeyFactory.generatePrivate
(RSAKeyFactory.java:352)
FINEST|5210/0||26-05-22 18:22:36|          at java.base/sun.security.rsa.RSAKeyFactory.engineGeneratePrivate
(RSAKeyFactory.java:249)
FINEST|5210/0||26-05-22 18:22:36|          ... 20 common frames omitted

```

400 Bad Request

This 400 Bad Request is returned from the Snowflake Streaming endpoint when using the URL configured in your Snowflake Streaming Profile configuration.

This can be caused by a number of configuration errors:

1. The URL is incorrect or malformed

2. The user and role are mismatched or incorrect

```
INFO|69731/0||24-04-04 20:48:33|20:48:33.243 [main] INFO n.s.i.connection.SecurityManager - Successfully
created new JWT
INFO|69731/0||24-04-04 20:48:33|20:48:33.245 [main] INFO n.s.ingest.connection.RequestBuilder - Creating a
RequestBuilder with arguments : Account : FU08711, User : IBSNOW_INGEST, Scheme : https, Host : fu08711.east-us-
2.azure.snowflakecomputing.com, Port : 443, userAgentSuffix: null
INFO|69731/0||24-04-04 20:48:33|20:48:33.245 [main] INFO n.s.i.s.i.SnowflakeStreamingIngestClientInternal -
[SF_INGEST] Using KEYPAIR_JWT for authorization
INFO|69731/0||24-04-04 20:48:33|20:48:33.261 [main] INFO n.s.i.s.i.StreamingIngestStage - [SF_INGEST] Refresh
Snowflake metadata, client=IBSNOWClient
INFO|69731/0||24-04-04 20:48:33|20:48:33.780 [main] WARN n.s.i.c.ServiceResponseHandler - 400 Status hit from
STREAMING_CLIENT_CONFIGURE, requestId:
INFO|69731/0||24-04-04 20:48:33|20:48:33.862 [main] ERROR c.c.i.snowflake.StreamingIngest - Failed to open the
channel for IBSNOW_BridgeInfo
INFO|69731/0||24-04-04 20:48:33|20:48:33.864 [main] ERROR c.c.i.snowflake.StreamingIngest - Failed to insert on
topic 'spBV1.0/IBSNOW/NBIRTH/Bridge Info'
INFO|69731/0||24-04-04 20:48:33|java.lang.NullPointerException: null
INFO|69731/0||24-04-04 20:48:33| at com.cirruslink.iotbridge.snowflake.StreamingIngest.insert
(StreamingIngest.java:136)
```