Error 18456, State 132

Last updated by | Vitor Tomaz | Oct 18, 2022 at 3:48 AM PDT

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Issue

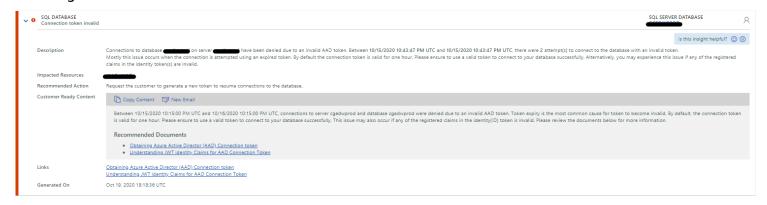
Failed login due to error 18456, state 132, FedAuthAADLoginJWTUserError.

AAD authentication could not be performed because of an user error with the JSON Web Token (JWT).

Using Azure support center

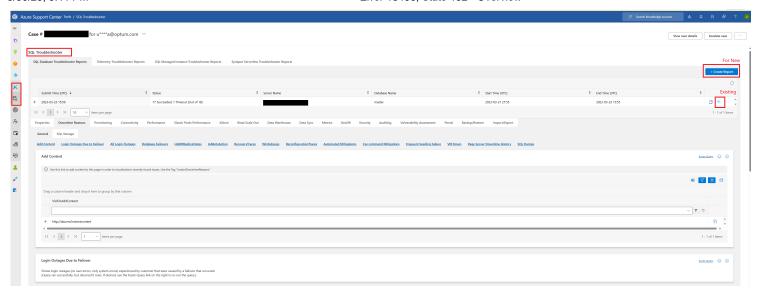
We detect this issue in Azure Support center tool, to generate insight with impact time frame along with CSS & customer ready content to use and share with customer for handling this issue.

ASC Insight

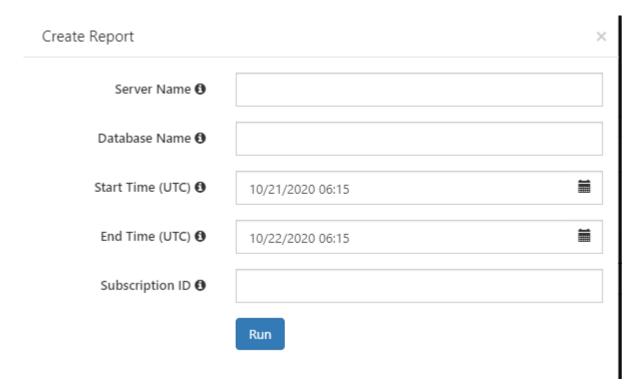


SQL Troubleshooter

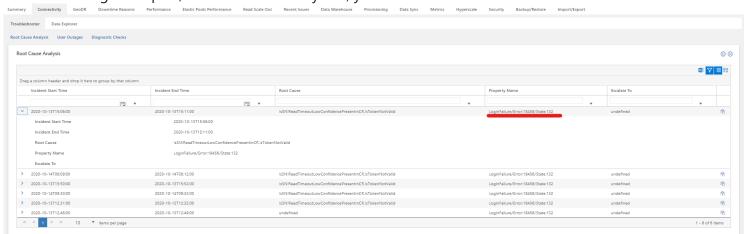
In addtion, you can manually run SQL Troubleshooter and get the report.



From ASC default page for the support case, choose Tools and select SQL Troubleshooter. Then choose SQL Troubleshooter Reports, input required parameters to create report.

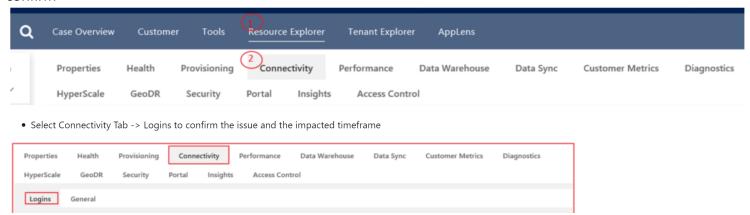


While reviewing the report, choose Connectivity Tab, you will see the issue is detected.



Resource Explorer

In addition you can also check and confirm the occurrence from resource explorer following the steps below to confirm



From ASC default page for the support case, choose Resource Explorer and ensure the resource is the impacted Database/Server that you're troubleshooting. The screenshot is the same as you see from **SQL Troubleshooter** report.

If the above Insights and findings did not help resolve or handle 18456 state 132 issue for customer. Please proceed with using the TSG below.

Using Kusto

This error can be caused by multiple reasons, the JSONWebTokenErrorState needs to be identified for more information.

JSONWebTokenErrorState can be seen at **error_state** under **MonFedAuthTicketService** for event == 'fedauth_webtoken_failure'

The correlation with MonLogin can made via:

MonLogin.connection_id == MonFedAuthTicketService.sql_connection_id

```
let starttime = ago(1d);
let endtime = now();
let server = '';
let database = '';
MonLogin
  where originalEventTimestamp >= starttime and originalEventTimestamp <= endtime</pre>
  where logical server name =~ server and database name =~ database
  where event == 'process login finish'
  where error == 18456 and ['state'] == 132
  extend AADUser = iif( fedauth adal workflow > 0 or fedauth library type > 0, "AAD", "SOL")
 extend ProxyOrRedirect = iif( result == "e crContinueSameState", "Proxy", "Redirect")
| extend fedauth library type desc =
case (
fedauth_library_type == 0, "SQL Auth",
fedauth library type == 2, "Token Based",
fedauth_library_type == 3 and fedauth_adal_workflow == 1, "AAD Password",
fedauth_library_type == 3 and fedauth_adal_workflow == 2, "AAD Integrated",
fedauth library type == 3 and fedauth adal workflow == 3, "AAD Universal MFA",
fedauth library type == 4, "Windows Auth",
strcat(tostring(fedauth library type) , "-" , tostring(fedauth adal workflow))
 join kind=leftouter (
MonFedAuthTicketService
 where originalEventTimestamp >= starttime and originalEventTimestamp <= endtime
 where event == 'fedauth_webtoken_failure'
| project sql_connection_id, database_name, logical_database_name, JSONWebTokenErrorState = error_state, error
) on $left.connection_id == $right.sql_connection_id
| project PreciseTimeStamp, logical_server_name, database_name, MachineName , package, event, is_success, is_u
 lookup_error_state, lookup_error_code, lookup_state , peer_address, is_vnet_address,
application_name, driver_name, ProxyOrRedirect, AADUser, fedauth_library_type_desc, total_time_ms, connection_
, database name1, logical database name, JSONWebTokenErrorState, error message
```

Most common JSONWebTokenErrorState

Error	State	JSONWebTokenErrorState	Description
18456	132	5	Invalid audience. Please ensure you are using "https:// <servername>.database.windows.net/".</servername>
18456	132	9	Expired token.
18456	132	14	Token issuer is invalid.
18456	132	51	No object Id present in token.
18456	132	52	Invalid signature in the token.
18456	132	66	Incorrect signature or token.

The full list of JSONWebTokenErrorState

can be seen at Reference: JSONWebTokenErrorState

RCA Template

Impact: Between *<Starttime>* and *<EndTime>*, connection attempts to your database *<Database Name>* have failed with error 18456 and state 132.

Root Cause: Connections to the database were denied due to an invalid AAD token. Token expiry is the most common cause for token to become invalid. By default, the connection token is valid for one hour. Please ensure to use a valid token to connect to your database successfully. This issue may also occur if any of the registered claims in the identity(ID) token is invalid.

Mitigation: Please ensure connect to your database with valid token.

Additional Information: Please review the documents below for more information.

- Obtaining Azure Active Director (AAD) Connection token

Classification

Cases resolved by this TSG should be coded to the following root cause: Root Cause: Azure SQL DB v2\Connectivity\AAD Issues\AAD Token expired

How good have you found this content?



