

epoll_ctl errors

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Issue

Customers randomly see epoll_ctl errors during reads and writes.

Investigation/Analysis

```
SHOW max_connections;  
  
SELECT run_command_on_workers($$select current_setting('max_connections');$$);
```

Max connection are around 600 see if customer is within the limits. We might also need to increase these if they are low.

Mitigation

Under high-load, it is possible that some connections are dropped/terminated and interacting with those connections give this epoll_ctl errors. By default, citus is allowed to open 16 connections per worker to execute a multi-shard command, which can increase the resource usage, hence causing this kind of errors. If the customer is hitting this error, it might make sense to decrease the max_adaptive_executor_pool_size to 8 from 16.

- ☐ They only need to change it for the coordinator.
- ☐ It is not modifiable from the Azure console.
- ☐ They should change it in the postgres session (that is libpq connection, psql session, ...).
- ☐ It doesn't persist between sessions, so they need to set it at beginning of each session
- ☐ Restarting the citus cluster is not required.

PG fixed some of these errors with 9.3: <https://github.com/citusdata/citus/pull/3812> 

More Information

- <https://portal.microsofticm.com/imp/v3/incidents/details/228217836/home> 
- <https://portal.microsofticm.com/imp/v3/incidents/details/257076493/home> 

Public Doc Reference

<https://github.com/citusdata/citus/pull/3812> 

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