

Customer facing metrics on portal

Last updated by | Lisa Liu | Nov 6, 2020 at 10:35 AM PST

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Wednesday, January 23, 2019

10:05 AM

Concepts and formula on monitoring replicas [here](#)

There is a Max Lag across Replicas metric available in Azure Monitor. This metric is available on the master server only. The metric shows the lag time between the master and the most lagging replica.

We also provide a Replica Lag metric in Azure Monitor. This metric is available for replicas only.

The metric is calculated from the `pg_stat_wal_receiver` view:

```
EXTRACT (EPOCH FROM now()) - pg_last_xact_replay_timestamp())
```

Remember that the Replica Lag metric shows the time since the last replayed transaction. If there are no transactions occurring on your master, the metric reflects this time lag.

We recommend that you set an alert that informs you when the replica lag reaches a value that isn't acceptable for your workload.

For additional insight, query the master server directly to get the replication lag in bytes on all replicas. On PG 10:

```
select pg_wal_lsn_diff(pg_current_wal_lsn(), stat.replay_lsn)
AS total_log_delay_in_bytes from pg_stat_replication;
```

On PG 9.6 and below:

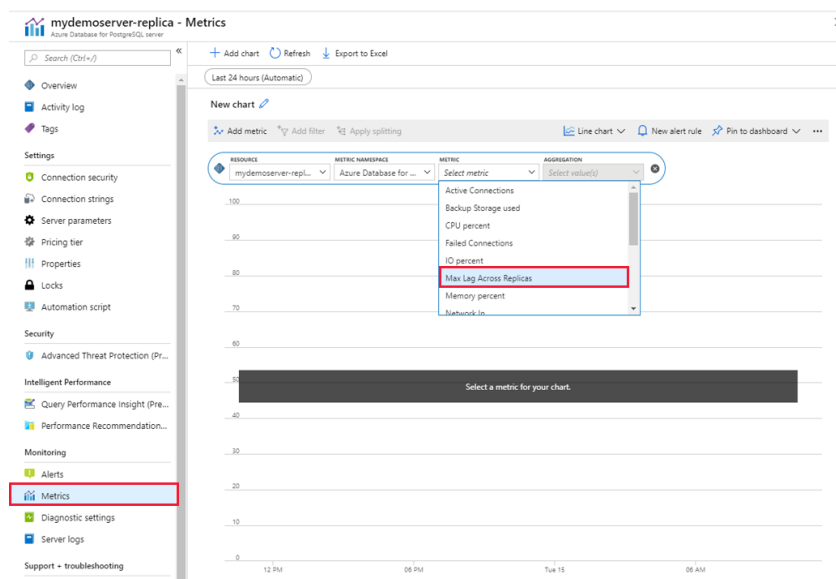
```
select pg_xlog_location_diff(pg_current_xlog_location(), stat.replay_location)
AS total_log_delay_in_bytes from pg_stat_replication;
```

Note: If either a master or replica server restarts, the time it takes to restart and then catch up will be reflected in the Replica Lag metric.

Max Lag Across Replicas view on portal:

The Max lag across replicas metric shows the lag time between the master and the most lagging replica.

1. In the Azure portal, select the master Azure Database for PostgreSQL server.
2. Select Metrics. In the metrics window, select Max Lag Across Replicas.



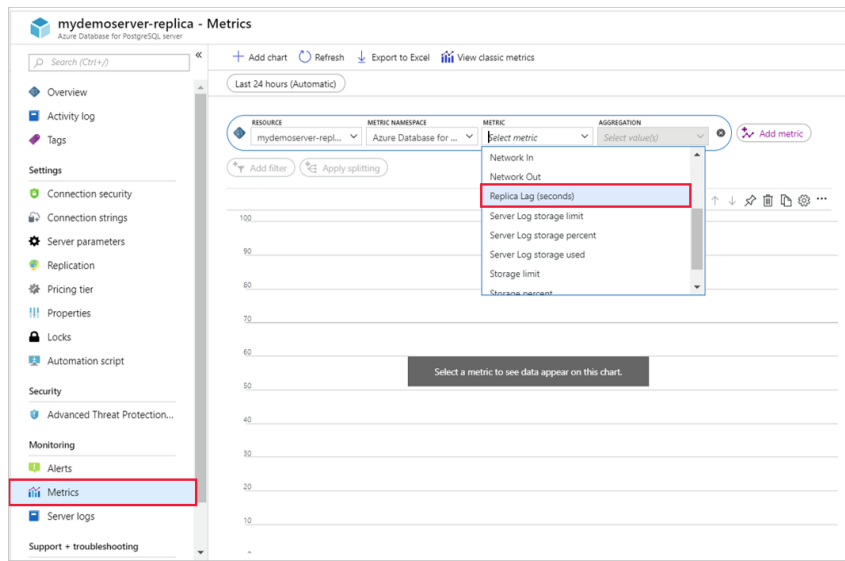
3. Select Max as your Aggregation.

Replica Lag metric view on portal:

The Replica Lag metric shows the time since the last replayed transaction on this replica. If there are no transactions occurring on your master, the metric reflects this time lag.

1. In the Azure portal, select a replica Azure Database for PostgreSQL server.

2. Select Metrics. In the metrics window, select Replica Lag.



3. Select Max as your Aggregation.

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