Metric values

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Indroduction

Azure Database for PostgreSQL provides various metrics that give insight into the behavior of the resources supporting the PostgreSQL server including Normal and Enhance metrics, refer to your documentation Monitor metrics on Azure Database for PostgreSQL - Flexible Server To get more details around that.

We can define our metrics we are exposing to our customers into below categories:

Source	Metrics to Validate
vmstats	Cpu Percent, Memory Percent, lops
sidecar	Active Connections, Maximum Used TransactionIDs
platform metrics	Read IOPS, Write IOPS, Read Throughput, Write Throughput

In some scenarios the customer is not able to see either of the above metrics, this TSG will help you to identify and resolve such cases:

Case 1. Both Sidecar and VmStats telemetry are missing

Case 1.1. Dims.jq is not updated after stuck failover

This can happen if an **HA server** has recently had stuck failover

run Geneva actions as in this TSG <u>Geneva actions</u> with script name cat_dims_jq, if ReplicaRole still "Standby" file an ICM to fix it

Case 1.2. Telemetry is missing on the node due to a certificate problem

1- Open dashboard:

https://portal.microsoftgeneva.com/resource/MicrosoftDBForPGFlexProd%24OrcasBreadthRP-HealthTree/dashboard/MicrosoftDBForPGFlexProd/Telemetry/Regional Telemetry Validation

- 2- Check if the server is listed in both of bottom 2 lists.
- 3- if you can find it there, file an ICM to fix it.

Case 2. Only vmstats telemetry is missing

Restart fluentd container: run Geneva actions as in this TSG <u>Geneva actions</u> with **restartcontainer** using ApplicationInstanceName as "fluentd"

Case 3. Only Sidecar telemetry is missing

Case 3.1. Sidecar is down.

Run Geneva actions as in this TSG <u>Geneva actions</u> with script name **dockerps** to get the container status. If the container is down, restart it using script restartcontainer with ApplicationInstanceName "vmagent_postgres_sidecar"

In some cases, the metrics collector thread might be stuck, while the rest of sidecar is still running. Run the below query to check if metrics collector thread is running. If the query returns no results, restart sidecar.

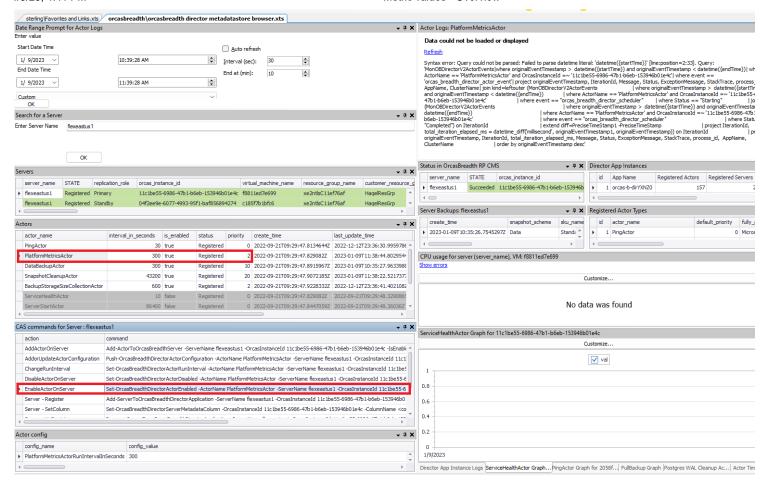
```
OBvmagentsidecarpgsql
| where PreciseTimeStamp > ago(1h)
| where VirtualMachineName == 'bb4ffcd297bf'
| where MessageString contains "[PostgresMetricsCollector]"
| project PreciseTimeStamp, MessageString, LogType, ReplicaRole, VirtualMachineName
| order by PreciseTimeStamp desc
```

Case 4. Missing Platform Metrics Telemetry

1. Check PlatformMetricsActor is Running

- 1- Open "orcasbreadth director metadatastore browser.xts" XTS view
- 2- Search for target server. For HA replication sets select Primary instance.
- 3- Validate PlatformMetricsActor is running.

If actor is not running, use EnableActorOnServer (as highlighted below in red) CAS command from the XTS view



2. Check PlatformMetrics Actor logs for errors

```
MonOBDirectorV2ActorEvents
| where PreciseTimeStamp > ago(1h)
| where ServerName == "servername"
| where ActorName == "PlatformMetricsActor"
| where isnotempty(ExceptionMessage)
| project PreciseTimeStamp, ExceptionMessage, Message
```

For any errors under this category, you can file an ICM to get more information and resolution for customer case.

How good have you found this content?

