

Metric values

Last updated by | Hamza Aqel | Jan 9, 2023 at 4:02 AM PST

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Introduction

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, IOPS
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 [Geneva actions](#) 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 [Geneva actions](#) 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 [Geneva actions](#) 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



sterling\Favorites and Links.xlsorcasbreadth\orcasbreadth director metadatastore browser.xls

Date Range Prompt for Actor Logs

Enter value

Start Date Time

1/ 9/2023

10:39:28 AM

Interval (sec):

30

Auto refresh

End Date Time

1/ 9/2023

11:39:28 AM

End at (min):

10

Custom

OK

Search for a Server

Enter Server Name

flexeastus1

OK

Servers

server_name	STATE	replication_role	orcass_instance_id	virtual_machine_name	resource_group_name	customer_resource_group
flexeastus1	Registered	Primary	11c1be55-6986-47b1-b6eb-153946b01e4c	f8811ed7e699	xe2ntsc11ef76af	HagelResGrp
flexeastus1	Registered	Standby	04f2ee9e-6077-4993-95f1-baf856894274	c185f7b1bf6c	xe2ntsc11ef76af	HagelResGrp

Actors

actor_name	interval_in_seconds	is_enabled	status	priority	create_time	last_update_time
PingActor	30	true	Registered	0	2022-09-21T09:29:47.813464Z	2022-12-12T23:36:30.995978Z
PlatformMetricsActor	300	true	Registered	2	2022-09-21T09:29:47.829082Z	2023-01-09T11:38:44.802954Z
DataBackupActor	300	true	Registered	10	2022-09-21T09:29:47.891596Z	2023-01-09T10:35:27.963398Z
SnapshotCleanupActor	43200	true	Registered	20	2022-09-21T09:29:47.907218Z	2023-01-09T11:38:22.521737Z
BackupStorageSizeCollectionActor	600	true	Registered	2	2022-09-21T09:29:47.922833Z	2022-12-12T23:36:41.402108Z
ServiceHealthActor	10	false	Registered	0	2022-09-21T09:29:47.829082Z	2022-09-21T09:29:48.329086Z
ServerStartActor	86400	false	Registered	0	2022-09-21T09:29:47.844705Z	2022-09-21T09:29:48.360362Z

CAS commands for Server : flexeastus1

action	command
AddActorOnServer	Add-ActorToOrcasBreadthServer -ServerName flexeastus1 -OrcasInstanceid 11c1be55-6986-47b1-b6eb-153946b01e4c -IsEnabled
AddOrUpdateActorConfiguration	Push-OrcasBreadthDirectorActorConfiguration -ActorName PlatformMetricsActor -ServerName flexeastus1 -OrcasInstanceid 11c1
ChangeRunInterval	Set-OrcasBreadthDirectorActorRunInterval -ActorName PlatformMetricsActor -ServerName flexeastus1 -OrcasInstanceid 11c1be
DisableActorOnServer	Set-OrcasBreadthDirectorActorDisabled -ActorName PlatformMetricsActor -ServerName flexeastus1 -OrcasInstanceid 11c1be55-6
EnableActorOnServer	Set-OrcasBreadthDirectorActorEnabled -ActorName PlatformMetricsActor -ServerName flexeastus1 -OrcasInstanceid 11c1be55-6
Server - Register	Add-ServerToOrcasBreadthDirectorApplication -ServerName flexeastus1 -OrcasInstanceid 11c1be55-6986-47b1-b6eb-153946b0
Server - SetColumn	Set-OrcasBreadthDirectorServerMetadataColumn -OrcasInstanceid 11c1be55-6986-47b1-b6eb-153946b01e4c -ColumnName <co

Actor config

config_name	config_value
PlatformMetricsActorRunIntervalInSeconds	300

Actor Logs: PlatformMetricsActor

Data could not be loaded or displayed

Refresh

Syntax error: Query could not be parsed: Failed to parse datetime literal: 'datetime((startTime))' [line:position=2:33]. Query: 'MonOBDirectorV2ActorEvents[where originalEventTimestamp > datetime((startTime)) and originalEventTimestamp < datetime((endTime))] wh ActorName == 'PlatformMetricsActor' and OrcasInstanceid == '11c1be55-6986-47b1-b6eb-153946b01e4c' where event == 'orcass_breadth_director_actor_event'] project originalEventTimestamp, IterationId, Message, Status, ExceptionMessage, StackTrace, process, AppName, ClusterName] join kind=leftouter (MonOBDirectorV2ActorEvents [where originalEventTimestamp > datetime((startTi and originalEventTimestamp < datetime((endTime)) [where ActorName == 'PlatformMetricsActor' and OrcasInstanceid == '11c1be55-47b1-b6eb-153946b01e4c' [where event == 'orcass_breadth_director_scheduler' [where Status == 'Starting' [jo (MonOBDirectorV2ActorEvents [where originalEventTimestamp > datetime((startTime)) and originalEventTimestamp < datetime((endTime)) [where ActorName == 'PlatformMetricsActor' and OrcasInstanceid == '11c1be55-6986-47b1-b6eb-153946b01e4c' [where event == 'orcass_breadth_director_scheduler' [where Stat 'Completed') on IterationId [extend diff=PreciseTimeStamp1 -PreciseTimeStamp [project IterationId, total_iteration_elapsed_ms = datetime_diff(millisecond, originalEventTimestamp1, originalEventTimestamp)) on IterationId [pr originalEventTimestamp, IterationId, total_iteration_elapsed_ms, Message, Status, ExceptionMessage, StackTrace, process_id, AppName, ClusterName [order by originalEventTimestamp desc'

Status in OrcasBreadth RP CMS

server_name	STATE	orcass_instance_id
flexeastus1	Succeeded	11c1be55-6986-47b1-b6eb-153946b01e4c

Director App Instances

id	App Name	Registered Actors	Registered Servers
1	orcass-b-dirV20	157	2

Server Backups: flexeastus1

create_time	snapshot_scheme	sku_name
2023-01-09T10:35:26.754529Z	Data	Standb

Registered Actor Types

id	actor_name	default_priority	fully_u
1	PingActor		0 Micro

CPU usage for server (server_name, VM: f8811ed7e699

Show errors

Customize...

No data was found

ServiceHealthActor Graph for 11c1be55-6986-47b1-b6eb-153946b01e4c

Customize...

☒ val

1

0.8

0.6

0.4

0.2

0

1/9/2023

Director App Instance Logs

ServiceHealthActor Graph...

PingActor Graph for 2058f...

FullBackup Graph

Postgres WAL Cleanup Ac...

Actor Tim

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?

