High IOPs

Last updated by | Hamza Aqel | Mar 8, 2023 at 2:31 AM PST

This is part of GT, to update please refer to haaqel@microsft.com

Contents

Checking High IOPs utilization

Our Product Group engineers have developed new workbooks for the Azure database for PostgreSQL flexible server that will aid the support engineers in resolving a variety of customer issues:

- High CPU.
- High Memory.
- High IOPs.
- Autovacuum/vacuum monitoring.
- Autovacuum blockers and Wraparound identification.
- High temporary file usage.

Use the below workbooks to troubleshoot High CPU issues:

Workbook Name	Link
High IOPs	https://portal.azure.com/?feature.customportal=false#@microsoft.onmicrosoft.com/resource/subscriptic cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/0a1ee92e-cf40-4a99-a6d2 05be3a0b6f7e/workbook
Autovacuum/vacuum monitoring	https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscript cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/be5accaa-b819-48ca-852 a5fee6794238/workbook
Autovacuum blockers and Wraparound identification	https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscript cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/8da0d9b3-98cd-40c5-aba d22817643ab2/workbook
High temporary file usage	https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscript cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/b1f4f9fd-9d92-4eb7-a388 711ccb482789/workbook

Checking Query Store

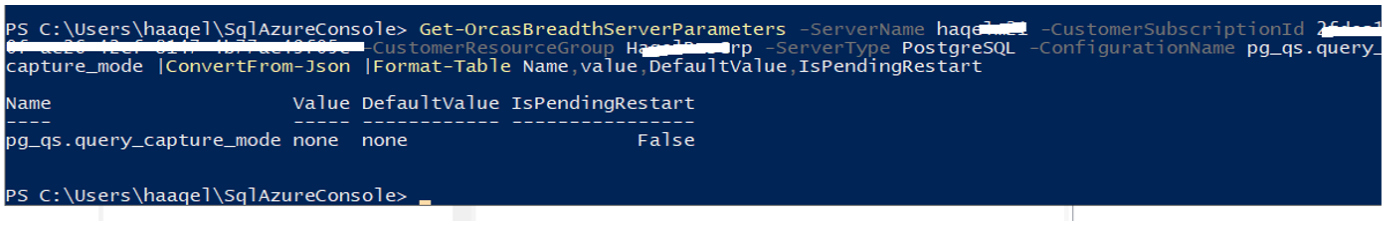
For the above workbooks to work effectively, the customer should have already set the parameter pg_qs.query_capture_mode to ALL.

Check the customer query store if it is enabled, and recommend to enable if not to monitor and check the top queries:

How to check if it is enabled or not:

Run the below CAS command:

Get-OrcasBreadthServerParameters -ServerName pgflex-servername -CustomerSubscriptionId xxx CustomerResourceGroup rgname -ServerType PostgreSQL -ConfigurationName pg_qs.query_capture_mode |ConvertFrom-Json |Format-Table Name,value,DefaultValue,IsPendingRestart



Public documentation

We have this public documentation (**Troubleshoot high IOPS utilization for Azure Database for PostgreSQL - Flexible Server**) for similar incidents and scenarios where the customer can use to resolve such cases.