

# High CPU PGFLEX

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

This is part of GT, to update please refer to [haaqel@microsoft.com](mailto:haaqel@microsoft.com)

## Contents




- [Checking High CPU utilization](#)
- [Checking Query Store](#)
- [Public documentation](#)

## Checking High CPU 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 CPU	<a href="https://portal.azure.com/?feature.customportal=false#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/44381d7d-d324-4be9-ba1d1fa4d17bb5f/workbook">https://portal.azure.com/?feature.customportal=false#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/44381d7d-d324-4be9-ba1d1fa4d17bb5f/workbook</a> 
Autovacuum/vacuum monitoring	<a href="https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/be5accaa-b819-48ca-852a5fee6794238/workbook">https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/be5accaa-b819-48ca-852a5fee6794238/workbook</a> 
Autovacuum blockers and Wraparound identification	<a href="https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/8da0d9b3-98cd-40c5-abcd22817643ab2/workbook">https://ms.portal.azure.com/#@microsoft.onmicrosoft.com/resource/subscriptions/cf5a-4917-ac31-6f06460ff9b2/resourceGroups/prod-internal-perf-workbooks/providers/microsoft.insights/workbooks/8da0d9b3-98cd-40c5-abcd22817643ab2/workbook</a> 

## 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
```

```
PS C:\Users\haaqel\SqlAzureConsole> Get-OrcasBreadthServerParameters -ServerName haqel-001 -CustomerSubscriptionId 261-00000000000000000000 -CustomerResourceGroup haqel-001-rg -ServerType PostgreSQL -ConfigurationName pg_qs.query_capture_mode | ConvertFrom-Json | Format-Table Name,value,DefaultValue,IsPendingRestart
Name                                     Value  DefaultValue  IsPendingRestart
-----
pg_qs.query_capture_mode                none   none          False
PS C:\Users\haaqel\SqlAzureConsole>
```

## Public documentation

We have this public documentation ([Troubleshoot high CPU utilization in Azure Database for PostgreSQL](#)) for similar incidents and scenarios where the customer can use to resolve such cases and the customer must follow.

**Note:**

You can use [Jarvis](#) to check the customer resources too, make sure to select the right cluster region before searching for the PGflex server:

