

Flexible Server tables and views in Kusto and XTS

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This TSG still in progress, any feedback is appreciated

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Intro

This TSG to document each table and view in XTS along with its usage, source of tables:

https://supportability.visualstudio.com/AzureDBPostgreSQL/_wiki/wikis/AzureDBPostgreSQL/399668/Colocation-and-Performance-Flexible-Server End of Page

You can list all tables by running:

```
.show tables
```

Kusto

Table	Notes
MonOrcasBreadthCMSSnapshot	Snapshots of server entities in CI
MonOrcasBreadthResourceProvider	ARM/CAS Controller logs.
AlrOrcasBreadthRp	ARM/CAS FSM events, such as management_operation_start and management_operation_success
MonOrcasBreadthRp, MonOrcasBreadthRpExceptions,PiiOrcasBreadthRpExceptions	ARM/CAS FSM logs.
MonOrcasBreadthDirectorEvents/MonOBDirectorV2ActorEvents	Director service logs.
MonOrcasBreadthActorEvents	Director actor logs.
OBvmagentlog, piiOBvmagentsidecarlog, OBvmagentsidecarpgsql, piiOBvmagentsidecarpgsql	PG Agent logs.
MonPgLogs, PiiPgLogs	PG Engine setup logs and PG Engine logs.
PiiPgLogsShoebox	PG Engine logs going to Azure Monitor/Portal.
MonOBDockerContainerEvents	Docker container events, such as check, start and stop.
MonOBDockerStats	CPU and memory usage per Docker container.
MonOBVmStats	CPU and memory usage per customer instance
MonOBStorageStats	Storage usage per customer instance

Table	Notes
MonOBPgWalReplica	Flex Server HA Wal Replica Logs.
MonOBPgSqlSessionsStatus	admin vs user sessions count
MonOBPgSqlDBSizes	pg_database_size(pg_database.d from pg_database.
MonOBPgSqlBuffers	pg_stat_bgwriter.
MonOBPgSqlCacheHit	(blks_hit / (blks_hit + blks_read)) pg_stat_database.
MonOBPgSqlTransactionStats	xact_commit, xact_rollback, tup_i tup_updated from pg_stat_datab
MonOBPgSqlAppConnection	pg_stat_activity.
MonOBPgSqlConnectionStats	Connection stats, active vs max connections.
MonOBPgSqlTablesIOStats	pg_statio_user_tables
MonOBPgSqlTotalUserQueries	SUM(calls) from pg_stat_stateme
MonOBPgSqlStatStatements	userid, dbid, queryid, calls, total_ min_time, max_time from pg_stat_statements
MonOBPgSqlSessions	now()-backend_start AS session_duration, state from pg_stat_activity.
MonOBPgSqlConnections	datname, numbackends FROM pg_stat_database.
MonOBPgSqlFunctions	pg_stat_user_functions
MonOBPgSqlIndexesStats	idx_scan, idx_tup_read, idx_tup_f from pg_stat_user_indexes.
MonOBPgSqlIndexesEfficiency	idx_tup_fetch / idx_tup_read AS indexEfficiency FROM pg_stat_user_indexes.

Table	Notes
MonOBPgSqlTablesStats	n_live_tup, n_dead_tup, seq_scan, idx_scan, n_tup_ins, n_tup_upd, n_tup_del FROM pg_stat_user_tables
MonOBPgSqlExtensionStats	pg_extension
MonOBPgSqlSequentialScans	seq_tup_read / seq_scan as average_rowsperscan FROM pg_stat_user_tables.
MonOBPgSqlXlogFileCount	Current wal file name, current lsn, current wal files, current uploaded files, etc.
MonOBPgSqlReplicationStats	pg_replication_slots, pg_stat_replication
cluster('icmcluster').database('ACM.Publisher').ServiceHealthTargets	This table contains information and notification for planned maintenance

XTS

View	Notes	Entities
orcasbreadth\orcasbreadth servers.xts	to check current server's status and availability and its properties (version, vnet, backup retention ...) for history please check: MonOrcasBreadthCMSSnapshot	dbo.entity_azure_dns_record
		dbo.entity_dnc_network_container
orcasbreadth\orcasbreadth crud.xts	to check deployment status, errors and exceptions	
orcasbreadth\global adhoc breadth cms query.xts	To query XTS tables rather than using views	
fspg\meru19 fspg - ha.xts	troubleshoot HA	
orcasbreadth\orcasbreadth restore overview.xts	Troubleshooting restore operations	