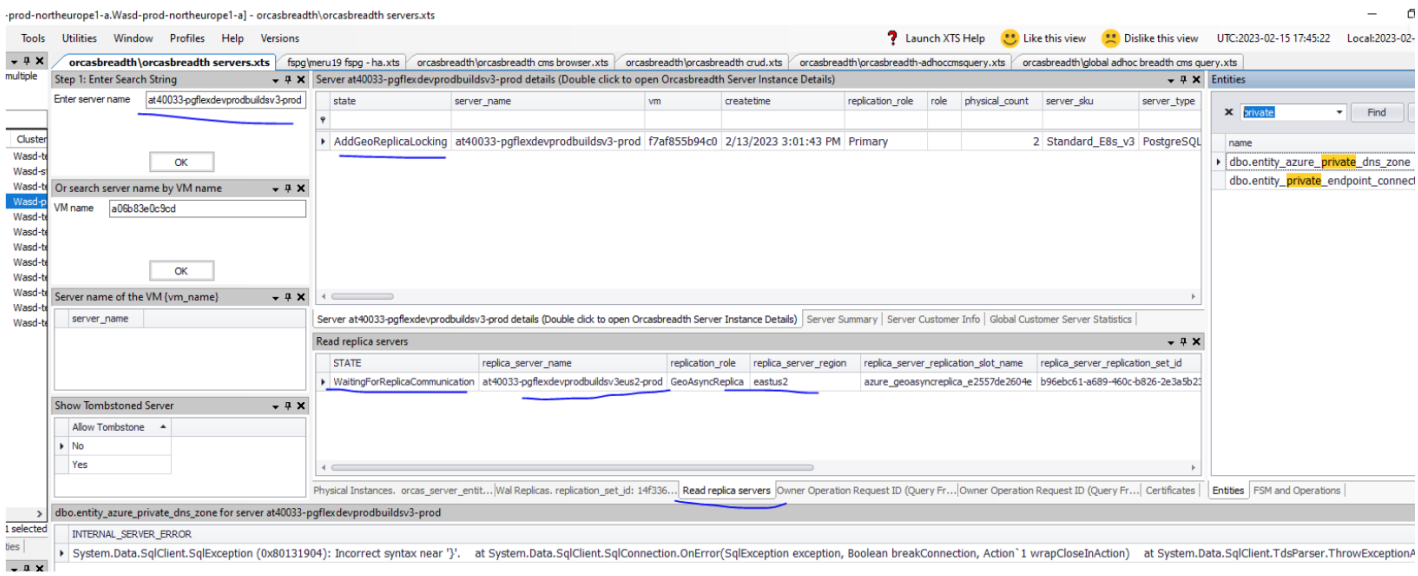
Geo-Replica Creation progress and estimated time

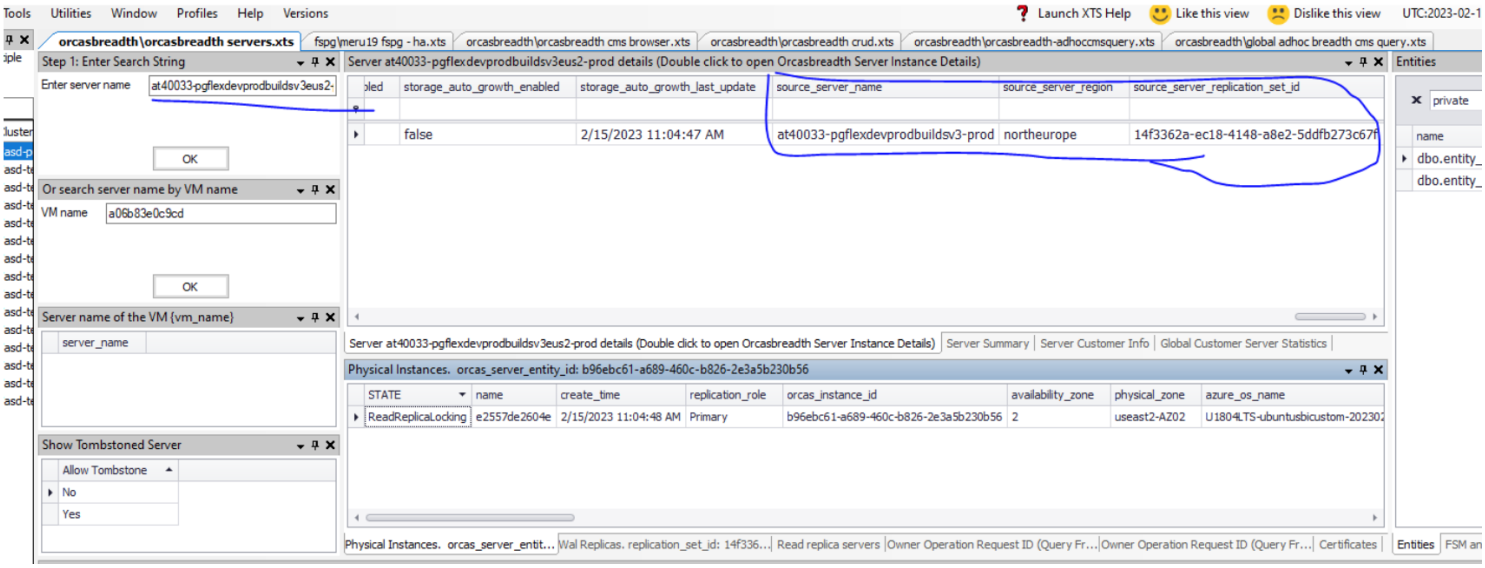
Last updated by | Abhishek Reddy Kumbham | Feb 22, 2023 at 8:51 AM PST

Geo replica creation takes time depends on size of source server data as well regions. Source server is in 'Updating' state in portal but it not cause any downtime or issues to customer applications.

1. Find replica server and source server name a) Find replica name using source server name using orcasbreadth\orcasbreadth servers.xts (select source server region environment)

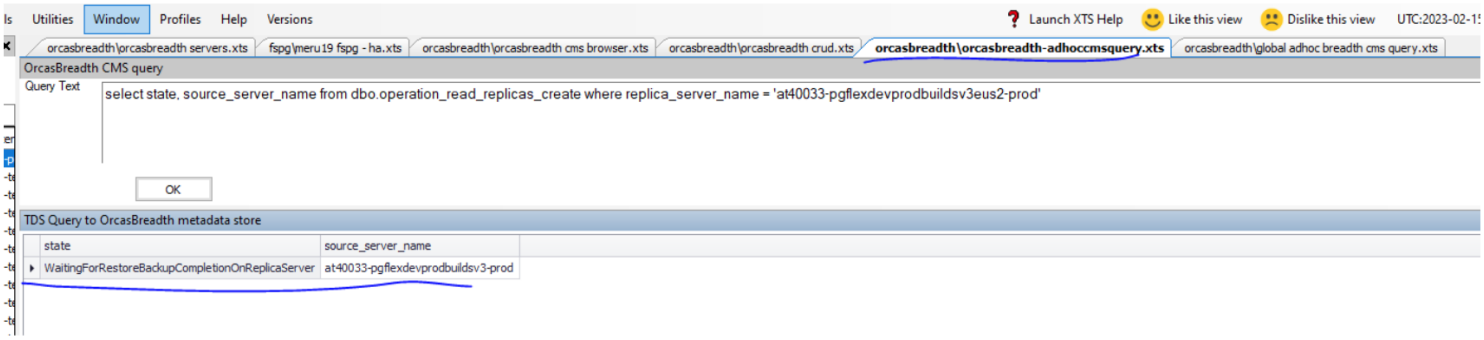


b) Find source server name using replica server name orcasbreadth\orcasbreadth servers.xts (select replica server region environment)



2. Find the current state of replica operation using orcasbreadth\orcasbreadth-adhoccmsquery.xts (select replica region environment). If state is WaitingForRestoreBackupCompletionOnReplicaServer then data copy taking time.

select state, source_server_name from dbo.operation_read_replicas_create where replica_server_name = 'replica server name'



3. Find the current size of the source server (Select source server region kusto url)

MonOBStorageStats | where PreciseTimeStamp > ago(20m) | where LogicalServerName =~ "source server name" | where replication_role =~ 'Primary' | where Mount contains "/datadrive" | project PreciseTimeStamp, Filesystem, DiskSize, **Used**, UsePerc, Available, Mount, ReplicaRole, VirtualMachineName | order by PreciseTimeStamp desc

4. Find the replica server current size (Select source server region kusto url)

MonOBStorageStats | where LogicalServerName =~ "source server name" | where replication_role =~ 'Primary' | where Mount contains "/datadrive" | project PreciseTimeStamp, Filesystem, DiskSize, **Used**, UsePerc, Available, Mount, ReplicaRole, VirtualMachineName | order by PreciseTimeStamp desc

5. Find the replication speed. (Used in MB/ (current time - start time) in seconds) give speed in MB/s. (current time here '2023-02-15 17:18:23.0234370' - Start time of replica create here '2023-02-15 11:08:33.0237800') -- convert to seconds Used size - convert to MB.

MonOBStorageStats | where LogicalServerName =~ "source server name" | where replication_role =~ 'Primary' | where Mount contains "/datadrive" | project PreciseTimeStamp, Filesystem, DiskSize, **Used**, UsePerc, Available, Mount, ReplicaRole, VirtualMachineName | order by PreciseTimeStamp desc

PreciseTimeStamp	Filesystem	DiskSize	Used	UsePerc	Available	Mount	ReplicaRole	VirtualMachineName
2023-02-15 17:18:23.0234370	/dev/sda	1007G	554G	58	403G	/datadrive	Primary	e2557de2604e
2023-02-15 17:17:48.0248720	/dev/sda	1007G	553G	58	404G	/datadrive	Primary	e2557de2604e
2023-02-15 17:17:13.0237990	/dev/sda	1007G	552G	58	405G	/datadrive	Primary	e2557de2604e
2023-02-15 17:16:38.0243900	/dev/sda	1007G	551G	58	406G	/datadrive	Primary	e2557de2604e
2023-02-15 11:10:18.0235320	/dev/sda	1007G	1.5G	1	955G	/datadrive	Primary	e2557de2604e
2023-02-15 11:09:43.0233030	/dev/sda	1007G	1.4G	1	955G	/datadrive	Primary	e2557de2604e
2023-02-15 11:09:08.0251620	/dev/sda	1007G	1.3G	1	955G	/datadrive	Primary	e2557de2604e
2023-02-15 11:08:33.0237800	/dev/sda	1007G	667...	1	955G	/datadrive	Primary	e2557de2604e

6. Remaining time to complete replica create. (source server Used size in MB - replica server used size in MB)/ replication speed (calculated from step 5) -- This gives in seconds

7. You can give this time as estimated time to complete replica.