

Server struck while creating Read replica for postgres flex server with VNET using ARM

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Issue

cx says that creating read replica for postgres flex server got struck or not moving further.

What to check before raising an ICM

- CO to verify if the server is using VNET.
- If cx is using vnet server for read replica, cx need to make sure to give private dns zone
 - Cx need to Provide below inputs.
 - Subscription – Subscription where read replica should be provisioned.
 - Resource Group – Resource group where read replica should be provisioned.
 - Replica Location – Location where read replica should be provisioned.
 - Server Name – replica server name
 - `PrivateDnsZoneArmResourceId`
- Source Serer Resource Id: Source server resource id. Example: subscriptions/aaaaaaa-aaa-aaa-aaa-aaaaaaa/resourceGroups/TestSourceResourceGroup/providers/Microsoft.DBForPostgreSql/flexibleServers/pgtestsvc4 information in ARM template.

ARM template

```
{
  "serverResource": {
    "Properties": {
      "CreateMode": "Replica",
      "AvailabilityZone": "3",
      "SourceServerResourceId": "/subscriptions/1db40ab4-da40-453f-ac8c-651494c6e18f/resourceGroups/composite-service-stage-va7-resource-group/providers/Microsoft.DBforPostgreSQL/flexibleServers/cos-stage-va7-postgres-flexible-server",
      "Storage": {
        "StorageSizeGB": 512
      },
      "Network": {
        "DelegatedSubnetResourceId": "/subscriptions/1db40ab4-da40-453f-ac8c-651494c6e18f/resourceGroups/composite-service-stage-va7-resource-group/providers/Microsoft.Network/virtualNetworks/composite-service-stage-va7-vnet/subnets/cos-stage-va7-
```

private-postgresflex-subnet", "PrivateDnsZoneArmResourceId": "" }, "Location": "eastus2", "Tags": { "Adobe.ArchPath": "ACP-CS.Service.CompositeService", "Adobe.Class": "Infrastructure", "Adobe.CostCenter": "103739", "Adobe.DataClassification": "Confidential", "Adobe.Environment": "Stage", "Adobe.Owner": "Adobe Cloud Platform - Content Services", "Adobe.PCIData": "false", "Adobe.SKMSServiceId": "5908" }, "Type": "Microsoft.DBforPostgreSQL/flexibleServers" } }

How to check if the migration is successful

- Use orcasbreadth-adhoccmsquery.xts view (Give the server's name that is replicated)

The screenshot displays the XTS (xTAS) interface for managing Azure resources. The main pane shows the configuration for a PostgreSQL read replica named 'vitathesttr1georeplica'. The replica is in a 'Succeeded' state, created on 3/15/2023 at 3:02:55 AM, and has a role of 'Primary'. The 'Read replica servers' table shows the replica's status. The bottom pane shows the 'CAS Actions' for the server, including environment selection, cluster selection, and subscription details. The left pane shows a list of environments, and the right pane shows a list of entities.

How to check migration status with request ID

- Use Orcasbreadth cms browser.xts with the request ID, This will give you the error and status of the server.

The screenshot displays the Kusto Explorer interface in Visual Studio. The top pane shows a list of environments under 'south centre'. The middle pane displays 'Active Workflows' with a table of workflow details. The bottom pane shows 'Related Servers' with a table of server information. The right pane shows the 'Entities' view for the selected workflow, listing various database entities.

type	keys	state	request_id	workflow_position	create_time	last_upd
tbi_operation_read_replicas_create	<row id="D2DB8627-80BF-4204-BAB8-5760BDA5574E"/>	WaitingForReplicaServerCreation	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:02:27 PM	3/14/2023 8:02:27 PM
tbi_upsert_server_requests	<row operation_request_id="D2DB8627-80BF-4204-BAB8-5760BDA5574E"/>	WaitingForResourceManagerToComplete	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:02:35 PM	3/14/2023 8:02:35 PM
tbi_process_dns_record_spec	<row id="2C168246-3D65-4125-992D-D90FF7F820B5"/>	WaitingForCreateOperationToComplete	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:04:40 PM	3/14/2023 8:04:40 PM
tbi_operation_create_dns_record	<row operation_id="P5E809F3-1AE7-4020-85AD-FA080EAS2A3C"/>	CreatingPrivateDnsRecord	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:04:40 PM	3/14/2023 8:04:40 PM
tbi_process_orcas_server_configuration_spec	<row id="44565846-018A-4A85-8934-E8817368178C"/>	WaitingForCreateOperationToComplete	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:04:40 PM	3/14/2023 8:04:40 PM
tbi_operation_create_orcas_server_configuration	<row operation_id="YFF0BCF6-390D-4F4C-ACFF-035882060F67"/>	Validating	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:04:40 PM	3/14/2023 8:04:40 PM
tbi_orcas_resource_manager	<row id="950964AC-FE0F-4E2A-A288-6F8743776E94"/>	WaitingForResourceSpecToBeProcessedInParallel	d2dbb627-80bf-4204-ba88-5760bda5574e		3/14/2023 8:02:45 PM	3/14/2023 8:02:45 PM

state	server_name	vm	create_time	replication_role	role	server_type	server_edition	orcas_instance_id	msft_subscription_id	msft_resource_group_name	msft_resource_group_id
Tombsioned	flexharestoreserver-63794612656057521	ea9250a09ec	4/3/2022 7:30:56 PM	Primary	PostgreSQL	GeneralPurpose	7aa13275-3e26-43d9-9a4b-13697f4104bc	62a3a3e3-d781-46f2-ba90-c4ef99dbd00d	VYOGGb1262a3a3e3	4c3d40f4-4ec1-47c2-827d-0b6a6f1	
Tombsioned	flexharestoreserver-63794612656057521	ef34fe78838	4/3/2022 7:57:48 PM	Primary	PostgreSQL	GeneralPurpose	7f932891-acd9-4329-beac-2b3ccb39f8b8	62a3a3e3-d781-46f2-ba90-c4ef99dbd00d	VYOGGb1262a3a3e3	4c3d40f4-4ec1-47c2-827d-0b6a6f1	

entity	Find	Clear
name		
dbo.entity_acm_communication		
dbo.entity_acm_event		
dbo.entity_application_configuration		
dbo.entity_application_instance		
dbo.entity_application_type		
dbo.entity_azure_availability_zones		
dbo.entity_azure_blob_containers		
dbo.entity_azure_cosmosdb_accounts		
dbo.entity_azure_disk_encryption_sets		
dbo.entity_azure_dns_record		
dbo.entity_azure_file_shares		
dbo.entity_azure_key_vault_secrets		
dbo.entity_azure_key_vaults		

Kusto query to check the progress of the migration

```
let MIGRATIONID_ARG = '6da84e02-4ba9-b198-b393c3e36e37';
let STARTTIME_ARG = datetime(3/16/2023 7:27:45 PM);
OBPGMigrationSidecarLogs
| where PreciseTimeStamp >= STARTTIME_ARG
| where MigrationRequestId == MIGRATIONID_ARG
| where Category != 'PgcopydbListProgress'
| project TIMESTAMP, PreciseTimeStamp, MessageString, Category, Database, LogLevel, LogicalServerName, DbMigrat
```