

Major version upgrade

Last updated by | Paul Epperson | Mar 11, 2023 at 8:51 AM PST

Contents

- [Review](#)
- [Troubleshooting steps:](#)
 - [0- Please refer to limitations to understand supported sce...](#)
 - [1- The XTS view orcasbreadth major version upgrades.xts ...](#)
 - [2- You can use the Kusto query:](#)

Review

Postgres releases a new major version containing new feature which is Major version upgrades (e.g. from 12.9 to 13.8) which is complicated as internal storage format is subject to change, new features are introduced, internal schema changes etc. Our goal is to support a one-click experience to upgrade from any supported major version to another higher supported major version.

This feature currently in Private Preview, for any customer willing to join, you can share the below form with him:

<https://forms.office.com/r/cid0HhsDkH> 

Troubleshooting steps:

0- Please refer to [limitations](#)  to understand supported scenarios.

1- The XTS view orcasbreadth major version upgrades.xts has been created to assist in MVU-related cases:

erling/Favorites and Links.xts

orcasbreadth/orcasbreadth restore overview.xts

orcasbreadth/orcasbreadth director-adhocbackingstorequery.xts

orcasbreadth/orcasbreadth servers.xts

orcasbreadth/orcasbreadth major version upgrades.xts

michaelu/orcasbreadth major version upgrades.xts

Select server

Enter server name: pepper-mvu-11

OK

Request Successes/Failures for pepper-mvu-11

request_id	start_time	end_time	minutes	outcome	error_classification	operation_type	server_name	server_version	other_name	server_type	role	replication_role	replication_set_id	create_mode	is_ha	is_vnet	az	v_co
------------	------------	----------	---------	---------	----------------------	----------------	-------------	----------------	------------	-------------	------	------------------	--------------------	-------------	-------	---------	----	------

OrcasServerUpgradeMajorVersionOperations for server pepper-mvu-11

operation_id	server_name	orcas_instance_id	create_time	last_state_change_time	source_version	target_version	state	message	target_application_type_entity_id	upgrade_check_job_id	upgrad
33c86e6f-8d1e-4df3-acaa-902d39d3316d	pepper-mvu-11	e0246369-1428-4922-be44-ec58d6c3b123	5/5/2022 4:25:27 PM	5/5/2022 4:31:40 PM	11	13	Completed	fac56d9f-a8be-460e-a5c3-660458bbff16	9c5452eb-7282-40f5-bf80-8c34b9576c66	ae2144	

Upgrade operation ae2144c0-127b-4f82-bbc0-4e199cdeda85 for operation 33c86e6f-8d1e-4df3-acaa-902d39d3316d

id	orcas_instance_id	target_version	source_version	virtual_machine_entity_id	message	state	checkpoint_operation_id	switch_new_blob_container_operation_id	target_application_type_ent
ae2144c0-127b-4f82-bbc0-4e199cdeda85	e0246369-1428-4922-be44-ec58d6c3b123	13	11	83371f55-fd82-4337-843a-156caad96b66		Completed	5979a4a4-663f-44c2-9eab-ac776461112b		fac56d9f-a8be-460e-a5c3-6

Upgrade operation ae2144c0-127b-4f82-bbc0-4e199cdeda85 for operation 33c86e6f-8d1e-4df3-acaa-902d39d3316d Upgrade check operation 9c5452eb-7282-40f5-bf80-8c34b9576c66 for operation 33c86e6f-8d1e-4df3-acaa-902d39d3316d	
CAS commands for server pepper-mvu-11	
Action	Command
Rollback managed disk	Invoke-OrcasBreadthManagedDiskRollback -SubscriptionId "929287AE-832A-4946-8006-A6CC2A3F7244" -ResourceGroup "pepper-test-rg" -location "eastus2" -ServerName "pepper-mvu-11" [-SnapshotName <snapshot> -ContainerVersion <version>]
Update server version metadata	Set-OrcasBreadthServerVersionMetadata -SubscriptionId "929287AE-832A-4946-8006-A6CC2A3F7244" -ResourceGroup "pepper-test-rg" -ServerName "pepper-mvu-11" -ServerVersion <version>
Unfence server	Invoke-OrcasBreadthExecuteScriptWithRunCommand -OrcasInstanceId "e0246369-1428-4922-be44-ec58d6c3b123" -AzureVmRunCommandScriptName "unfence_pg_server"
Enable this Subscription For Private Preview In This Region	Set-OrcasBreadthSubscriptionFeature -SubscriptionId "929287AE-832A-4946-8006-A6CC2A3F7244" -ResourceProvider Microsoft.DBPostgreSQL -FeatureNamespace Microsoft.Sql -FeatureName EnableMajorVersionUpgradeSwitch -FeatureValue On

2- You can use the Kusto query:

```
MonOrcasBreadthRp
| where request_id == "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxxxx"

let end_time = now();
let start_time = end_time - 2h;
let myServerName = 'pgflexservername';
OBvmagentsidecarpgsql
|where LogicalServerName == myServerName
| where TIMESTAMP >= start_time and TIMESTAMP <= end_time
| project TIMESTAMP,MessageString
```