

# BYOK\_XTSview\_and\_KustoQueries

Last updated by | Lisa Liu | Nov 6, 2020 at 10:35 AM PST

This page would document how to use BYOK-specific XTS view: Sterling\BYOK Elastic Servers.xts

## BYOK Elastic Servers.xts

XTS version 7.7.20200124.1 - SQL Azure - [Wasd-prod-eastus1-a-Wasd-prod-eastus1-a] - sarora\BYOK Elastic Servers.xts

File Edit Recent Views View Favorites Tools Utilities Window Profiles Help Versions

Views

byok

byok.msi cert mitigator.xts  
tde byok queries.xts  
byok-keyrevokedbs-ww.xts  
byok-keyrevokedbs-ww.xts  
BYOK Elastic Servers.xts

Usage Instructions

To use this view, enter a search string in the search box. You can search for either a whole/partial server name, a whole/partial subscription ID, or a whole/partial migration source cluster. If no test entered, click OK will list all servers.

Step 1: Enter Search String

Search String

OK

BYOK Servers

	name	state	elastic_server_id	customer_subscription_id	byok_enabled	identity_url
byoklocal	DroppingGeoRedundantB...	Inaccessible	93034b8d-bf66-4bd8-a804-af2d4fe5e45	5c5037e5-d3f1-4e7b-b3a9-f6bf94902b30	true	https://control-eastus.identity.az
byokserver		Inaccessible	0887be7a-c44f-457c-895f-8145433c7768	5c5037e5-d3f1-4e7b-b3a9-f6bf94902b30	true	https://control-eastus.identity.az
byok-test-mysql-1		Ready	c769e85a-5d87-4486-be32-d75ae18a6710	8403da61-2731-4c0e-a00c-1ec41e0d247	true	https://control-eastus.identity.az
byok-test-pg-1		Ready	c8f8dacc-b502-42ab-8916-a05e3d0289f3	8403da61-2731-4c0e-a00c-1ec41e0d247	true	https://control-eastus.identity.az
byok-test-postgre		Ready	50412ecb-932c-4944-b5da-b89bf3ce99b	d0e465d4-b7e9-47bf-9a20-32939f4b323	true	https://control-eastus.identity.az
demopostgresql1		Ready	f98a5ee8-c29e-4b19-8bdc-b3febe467144	5c5037e5-d3f1-4e7b-b3a9-f6bf94902b30	true	https://control-eastus.identity.az
demoservertmysql		Inaccessible	7fe5bc37-ed0a-4041-921b-455b65bd1341	5c5037e5-d3f1-4e7b-b3a9-f6bf94902b30	true	https://control-eastus.identity.az
mysqlbyoktestpolicy		WaitingForElasticServerPr...	909c9723-9f13-48c2-aefc-c02daa8f42ce	707595a1-1498-4b7d-9771-cf0455939d2c	true	https://control-eastus.identity.az
orcasbyokeastus2georestore1		WaitingForCustomSecrets...	0db0b084-49f0-4204-b43b-47e2a514b2ee	8403da61-2731-4c0e-a00c-1ec41e0d247	false	https://control-eastus.identity.az

BYOK Servers | Total BYOK Enabled Servers | Total BYOK Attempted | BYOK Tombstoned Servers

sqlinstance for demoservertmysql

name	elastic_server_id	sql_instance_id	state	type	service_level_objective	target_service_level_objective	worker_service_affinity_tag	tenant_ring_name	fabric

Partition ID for Instance

instance Name	partition_id
d68f589987e9	8500278D-05E9-4235-8796-C9F154988C04

Like this view

Dislike this view

UTC:2020-04-21 20:48:32

L

CAS Actions

action	command
Select Environment	Select-SqlAzureEnvironment Prod
Select Cluster	Select-SqlAzureCluster Wasd-prod-eastus1-a-CR1
Get JB Access	Get-JBAccess -WorkitemSource IdM -WorkitemId IdM ID -Justifica
New JIT Request	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
AW dumps	https://azurewatson.cloudapp.net/ClusterName-tr7336.eastus
Dump process	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Kill process	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Kill instance agent	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Kill SAT runner	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Kill MDS agent	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Restart server	Restart-ElasticServer -SubscriptionId 5c5037e5-d3f1-4e7b-b3a9
Add Firewall Rule	New-ElasticServerFirewallRule -StartIpAddress "0.0.0.0" -EndIp
Remove Firewall ...	Remove-ElasticServerFirewallRule -SubscriptionId 5c5037e5-d3f
Get Configuration	Get-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
Set SAS key	Get-ElasticServerSasToken -SubscriptionId 5c5037e5-d3f1-4e7b
PG Basic Backup	Get-CreateElasticServerBackup -ServerName demoservertmysql -
Take backup	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Restore server	Restore-ElasticServer2 -SubscriptionId 5c5037e5-d3f1-4e7b-b3a
Create read replica	New-ElasticServerReplica2 -SubscriptionId 5c5037e5-d3f1-4e7b
Start of MySQL ...	The following commands are for MySQL only.
Invoke Command	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Show binary logs	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Show master sta...	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Show slave status	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Show plugins	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Start Slave	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Stop Slave	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Show processlist	Invoke-ElasticServerDbCommand -SubscriptionId 5c5037e5-d3f1
Turn on bin log	Set-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
Turn on audit log	Set-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
Set audit events	Set-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
Set audit exid user	Set-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
Turn off parallel ...	Set-ElasticServerConfig -SubscriptionId 5c5037e5-d3f1-4e7b-b3
End of MySQL Only	The commands above are for MySQL only.
WARNING!	Please consult team orcasql@service.microsoft.com before using
Remove replica	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Move Replica	Get-FabricNode -NodeName DB.19 -NodeClusterName tr7336.ea
Delete database...	

The below CAS commands will be used by Engineering team for investigation

https://supportability.visualstudio.com/AzureDBPostgreSQL/\_wiki/wikis/AzureDBPostgreSQL/333210/BYOK\_XTSview\_and\_KustoQueries

1/3

**Usage Instructions**

Check if BYOK server's system assigned identity has access to customer's key vault for Get/Set/Unwrap permissions

TEST-ELASTICSERVERENCRYPTIONKEY -ResourceGroup <string> -ServerName <string> -ServerType <string> -SubscriptionId <Guid>

Get BYOK Key URI and Identity metadata from Azure Storage service

GET-ELASTICSERVERENCRYPTIONINFOFORALLSTORAGEACCOUNTS -ElasticServerId <Guid> -ResourceGroup <string> -ServerName <string> -ServerType <string> -SubscriptionId <Guid>

Get BYOK Key URI from CMS

GET-ELASTICSERVERENCRYPTIONKEYS -AzureKeyVaultKeyName <string> -ResourceGroup <string> -ServerName <string> -ServerType <string> -SubscriptionId <Guid>

**Impactful BYOK and mgmttest commands are hidden further below**

Step 1: Enter Search String

Search String

OK

**BYOK-enabled Servers**

name	state	elastic_server_id
byoklocal	DroppingGeoRedundantBackupPfs	93834b6d-bf6d-4000-8000-000000000000
byokserver	Inaccessible	0887be7a-c44d-4000-8000-000000000000
byok-test-mysql-1	Ready	c769e85a-5d8b-4000-8000-000000000000
byok-test-pg-1	Ready	c8f8dacc-b502-42ab-8916-a05e3d0289f3
hushashashashash	Ready	End17ashashashash

**BYOK-enabled Servers** | BYOK-Enabled Tombstoned | Total BYOK-Enabled Cores | Total BYOK-Attempted Cores

**SqlInstance for byok-test-pg-1**

name	elastic_server_id	sql_instance_id	state	timestamp
F71f3eb22eb6	c8f8dacc-b502-42ab-8916-a05e3d0289f3	16125615-ac38-46ef-b646-4d28e56d18e4	Ready	F

**CAS Actions**

action	command
Select Environment	Select-AzureEnvironment Prod
Select Cluster	Select-SqlAzureCluster Wasd-prod-eastus1-a-CR1
Get JIT Access	Get-JitAccess -WorkItemSource IdM -WorkItemID IdM ID -Justification "Reason for request"
New JIT Request	Get-FabricNode -NodeName DB.36 -NodeClusterName tr281.eastus1-a.worker.database.windows.net   \varsing\shared\New-JITReq
AW dumps	https://azurewatson.cloudapp.net/?ClusterName=tr281.eastus1-a.worker.database.windows.net&AppName=F71f3eb22eb6
Dump process	Get-FabricNode -NodeName DB.36 -NodeClusterName tr281.eastus1-a.worker.database.windows.net   Dump-Process -ProcessName
Kill process	Get-FabricNode -NodeName DB.36 -NodeClusterName tr281.eastus1-a.worker.database.windows.net   Kill-Process -ProcessName Dk
Kill instance agent	Get-FabricNode -NodeName DB.36 -NodeClusterName tr281.eastus1-a.worker.database.windows.net   Kill-Process -ProcessName Pc
Restart server	Restart-ElasticServer -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1
Get Configuration	Get-ElasticServerConfig -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1
Set Configuration	Set-ElasticServerConfig -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1
Get SAS key	Get-ElasticServerSasToken -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1
Take backup	Get-FabricNode -NodeName DB.36 -NodeClusterName tr281.eastus1-a.worker.database.windows.net   Invoke-ElasticServerBackupS
Restore server	Restore-ElasticServer2 -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -SourceResourceGroup shinim -SourceServerName

**Start of BYOK Only**

Below commands are for BYOK servers only.

Validate BYOK key is accessible

Test-ElasticServerEncryptionKey -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1

Get BYOK Key from CMS

Get-ElasticServerEncryptionKeys -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1

Get BYOK key and identity info from Azure Storage

Get-ElasticServerEncryptionInfoForAllStorageAccounts -SubscriptionId 8403da61-2731-4c0e-a00c-1ecd41e0d247 -ResourceGroup shinim -ServerName byok-test-pg-1

End of MySQL Only

The commands above are for BYOK servers only.

**WARNING!**

Please consult team orcasbyokeng@microsoft.com before using the commands below

## Kusto\_Queries

To check since when the database was not accessible

### MonAnalyticsElasticServersSnapshot

```
| where name == "{REPLACE_HERE}"
| summarize min(TIMESTAMP), max(TIMESTAMP) by ['state'], bin(TIMESTAMP, 1h)
```

For any failed operation from the customer side to enable this feature, we are going to use the normal troubleshooting steps once we get the tracking ID from the customer side of that failed operation from the activity Log: Example:

### HttpIncomingRequests

```
| where subscriptionId == "13ef485e-ff37-448c-ad35-7b06b9bd6eb9" | where serviceRequestId == "93452b9c-ec8d-4a96-a523-40588e8cfc2e"
```

We can see that the request\_id = 083621aa-2fe1-4d43-aea6-0df87ffc1a9f

### MonManagement

```
| where request_id == toupper("083621aa-2fe1-4d43-aea6-0df87ffc1a9f")
| project originalEventTimestamp, NodeName, event, ['state'], fsm_event, caller_state_machine_type, state_machine_type, exception_type, old_state, new_state, error_message, operation_type, exception, error, error_classification, error_code, error_message_format, error_number, stack_trace, elastic_server_name, operation_parameters
```

and engage the product group based on the above results.

ASC can be checked to see if BYOK is enabled or not

Q

Case OverviewCustomerToolsResource ExplorerTenant ExplorerAppLens

Drag a column header and drop it here to group by that column	
PropertyName	PropertyValue
<div></div>	<div></div>
> Elastic Server Edition	MemoryOptimized
> Sandbox Package Version	13.1.20200308.2-orcshr-35d4a50c
> Memory Limit (GB)	320
> Storage Host Name	file.bn8prdstf01a.store.core.windows.net
> Storage Type	Premium File Share
> Storage Tier, MBPS	
> IOPS Limit	6000
> Storage Limit (MB)	2048000
> <u>BYOK Enabled</u>	-1
> <u>Double/Additional Infrastructure-encryption Enabled</u>	0
> Enable Storage Auto Grow	1
> Enable SSL Enforcement	
> Blob Storage Account Name	
> Full Blob Storage Account Name	
> Blob Storage Container Name	

How good have you found this content?

