Virtual Cluster information in CMS

Last updated by | Vitor Tomaz | Nov 16, 2022 at 12:58 PM PST

In CMS, you can query the virtual cluster associated with a customer's subscription if you have the region it is deployed in e.g. wasd-prod-westeurope1-a.

```
-- Insert customer subscription ID e.g. '12345678-9012-3456-7890-123456789012'
-- Leave NULL if unknown.
DECLARE @subscription_id UNIQUEIDENTIFIER = '<SUBSCRIPTION_ID>';
-- Insert virtual cluster's resource group name e.g. 'resource_group_example'
-- Leave NULL if unknown.
-- Resource group name can be different for virtual cluster and for the related managed instance(s).
-- Do not filter virtual clusters by managed instance resource group name.
DECLARE @virtual_cluster_resource_group NVARCHAR(64) = NULL;
-- Insert virtual cluster name e.g. 'VirtualClusterExample'
-- Leave NULL if unknown.
DECLARE @virtual_cluster_name NVARCHAR(128) = NULL;
SELECT TOP 100
managed_instance_count =
(
SELECT COUNT(DISTINCT ms.[managed_server_id])
FROM managed_servers (NOLOCK) ms
WHERE ms.[private_cluster_id] = pc.[private_cluster_id]
),
virtual_cluster_name = [name],
[subscription_id],
[resource_group],
[tenant_ring_name],
[scheduled_time_for_remove],
[state],
[subnet_name],
[vnet_resource_id]
FROM private_clusters pc
WHERE
[subscription_id] = @subscription_id AND
(@virtual_cluster_resource_group IS NULL OR [resource_group] = @virtual_cluster_resource_group) AND
(@virtual_cluster_name IS NULL OR [name] = @virtual_cluster_name)
```

1. If there are no results with the expected [virtual_cluster_name]
    - Then the virtual cluster does not exist e.g. it is already deleted.
2. If the virtual cluster still exists then [managed_instance_count] tells you the number of linked managed instances.
    - If there are no managed instances for the virtual cluster i.e. [managed_instance_count] is 0
        - Virtual cluster is still being created and no managed instances have been deployed yet

managed_instance_count	virtual_cluster_name	subscription_id	resource_group	tenant_ring_name	scheduled_time_for_remove	state	subnet_name	vnet_resource_id
0	VirtualCluster4abe...	a8c9a924-06...	svetst			WaitingForRingBuildoutToFinish	ManagedInst...	/subscriptions/a8...

        - All of the managed instances on this virtual cluster have been already deleted and [scheduled_time_for_remove] should tell you the UTC time when the virtual cluster deletion is

expected to start (actual deletion process may take up to 3h)

managed_instance_count	virtual_cluster_name	subscription_id	resource_group	tenant_ring_name	scheduled_time_for_remove	state	subnet_name	vnet_resource_id
0	VirtualCluster4229b8f-5239-4c59-a8a6-6c7cd7ffae0a	[redacted]	autobot-manag...	tr86.westcentralu...	27-Dec-19 21:35:09	Ready	clsubnet2	/subscriptions/4b9...
1	VirtualClusterclsubnet	[redacted]	autobot-manag...	tr13.westcentralu...		Ready	clsubnet	/subscriptions/4b9...
2	VirtualCluster4d0c6dda-8b66-426a-a3b2-c0d7a6488c0e	[redacted]	autobot-manag...	tr164.westcentral...		Ready	testsvetst3	/subscriptions/4b9...

- Otherwise, managed instances are still active for this Virtual Cluster
  - Virtual cluster will not be automatically deleted
  - Virtual-cluster-related resources cannot be deleted e.g. subnet with the name [subnet_name] Check the obtained results in the decision flow that led you here.

How good have you found this content?