Detect Managed Instance provisioning issues in CMS

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

Required inputs: Region for CMS query e.g. wasd-prod-**eastus1-a**, customer subscription ID and managed instance name

```
DECLARE @customer_subscription_id UNIQUEIDENTIFIER = '<SUBSCRIPTION_ID>';

DECLARE @managed_instance_name NVARCHAR(128) = '<MANAGED_INSTANCE_NAME';

WITH provisioning_buildouts AS

(

SELECT [ring_buildout_id], [state],

        provisioning_deployment_instance_id = COALESCE(

            /* These deployments are MI-provisioning-related */

            [create_fabric_cluster_da_instance_id],

            [initialize_fabric_cluster_da_instance_id],

            [finalize_fabric_cluster_da_instance_id],

            [build_fabric_cluster_da_instance_id])

FROM ring_buildouts rb

WHERE rb.[state] != 'Ready'

),

provisioning_deployments AS

(

SELECT pb.ring_buildout_id,

        pb.provisioning_deployment_instance_id,

        ring_buildout_state = pb.state,

        deployment_state = da.state,

        deployment_fabric_application_uri = da.fabric_application_uri

FROM provisioning_buildouts pb
```

```
        JOIN deployment_automation_instances da
        ON pb.provisioning_deployment_instance_id = da.instance_id
WHERE pb.provisioning_deployment_instance_id IS NOT NULL
)
SELECT TOP 100
customer_subscription_id = ums.requested_subscription_id,
requested_managed_instance_name = ums.[requested_managed_server_name],
virtual_cluster_id = pc.private_cluster_id,
virtual_cluster_create_duration_hours = DATEDIFF(MINUTE, pc.create_time, GETUTCDATE()) / 60.0,
pd.ring_buildout_state,
pd.ring_buildout_id,
pd.deployment_state,
pd.deployment_fabric_application_uri,
pd.provisioning_deployment_instance_id
FROM upsert_managed_server_requests ums
JOIN private_clusters pc
ON ums.private_cluster_id = pc.private_cluster_id OR
        /* Fallback to subnet ID if there is no virtual cluster ID */
        (ums.private_cluster_id IS NULL AND ums.requested_subnet_resource_id = pc.subnet_resource_id)
JOIN provisioning_deployments pd
ON pc.ring_buildout_id = pd.ring_buildout_id
WHERE ums.[requested_subscription_id] = @customer_subscription_id AND
ums.[requested_managed_server_name] = @managed_instance_name AND
ums.[state] != 'Ready' AND pc.[state] != 'Ready'
```

Result example:

customer_subscription_id	requested_managed_instance_name	virtual_cluster_id	virtual_cluster_create_duration_hours	ring_buildout_id	deployment_fabric_application_uri
[redacted]...	sikdb-azure-nonprod	118b2ecc-528d-...	0.783333	e3ce255b-c042...	fabric:/DeploymentAutomation/50...

If there are no results then the managed instance probably does not have provisioning issues.

Otherwise, check the obtained results in the decision flow that led you here.

How good have you found this content?