How to check why the node is restarted

Last updated by | Hamza Aqel | Mar 8, 2023 at 2:37 AM PST

Sometimes, server restart/failover could be caused by node level or even cluster level exceptions. You can use the below query to check if other servers on this node or tenant ring is impacted.

Taken example of below case, a node on this tenant was disabled , so customer's servers on this cluster were failover and auto restart on another node.

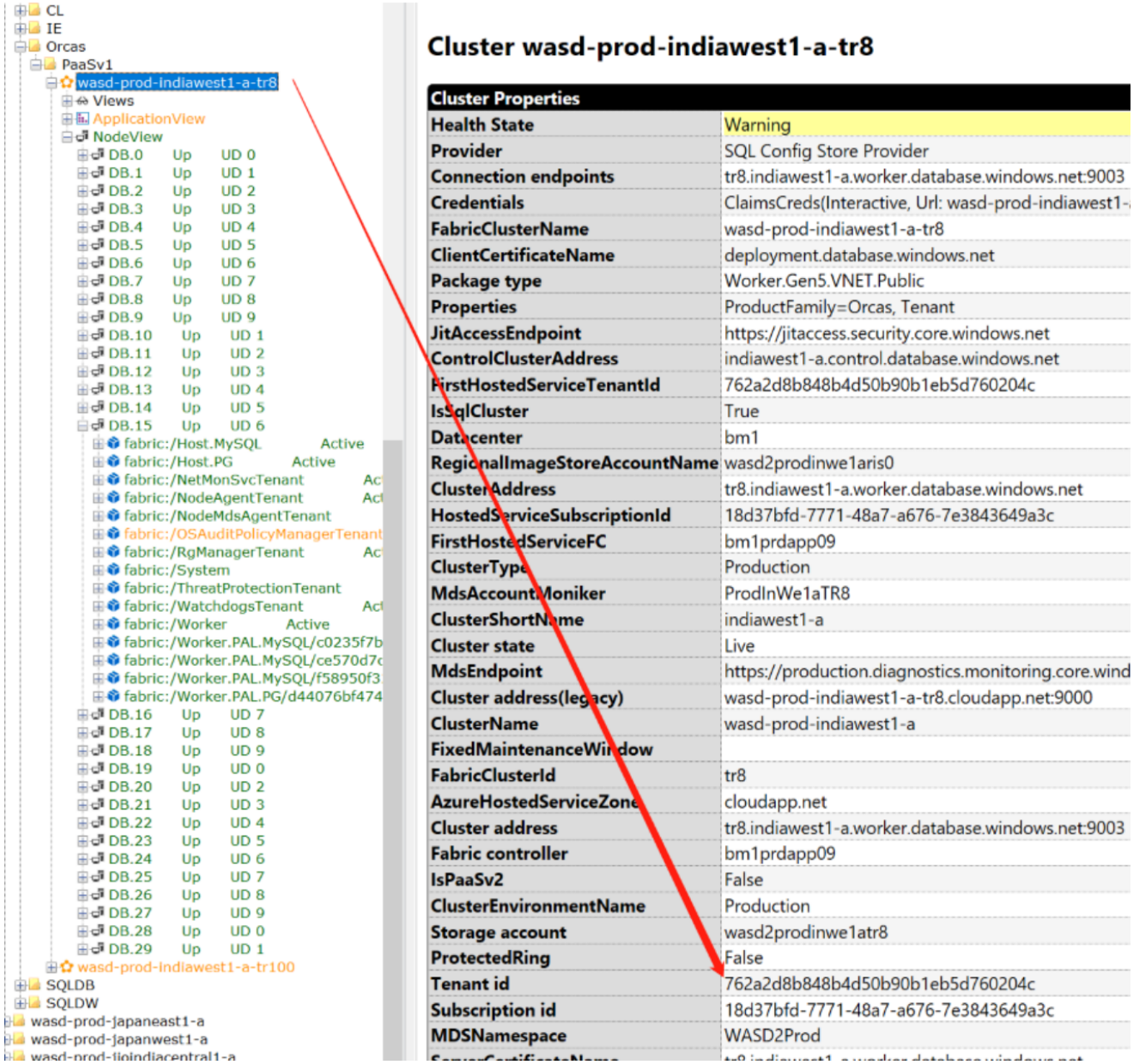
node_name	node_status	count_
DB.72	Disabled	2

```
MonClusterLoad
| where TIMESTAMP > ago(2d)
|where event=='node_state_report'
|where ClusterName == "tr15.australiaeast1-a.worker.database.windows.net"
| where node_name == 'DB.34'
| project TIMESTAMP , node_name , node_status, upgrade_domain , health_state,node_type,node_up_time, fault_dom
//| where node_status != "Up"

// node down
MonClusterLoad
| where event == 'node_state_report'
| where ClusterName startswith ""
| where node_name == ""
| extend status = iff(node_status == 'Up', 1, 0)
| project TIMESTAMP, status
| render scatterchart
```

Once observed that the node is restarted, please refer to below to further check the cause of node restart

- Platform Maintenance
- Node Repairs
- Infrastructure Issue
    1. Get tenant id from SFE, shown as below

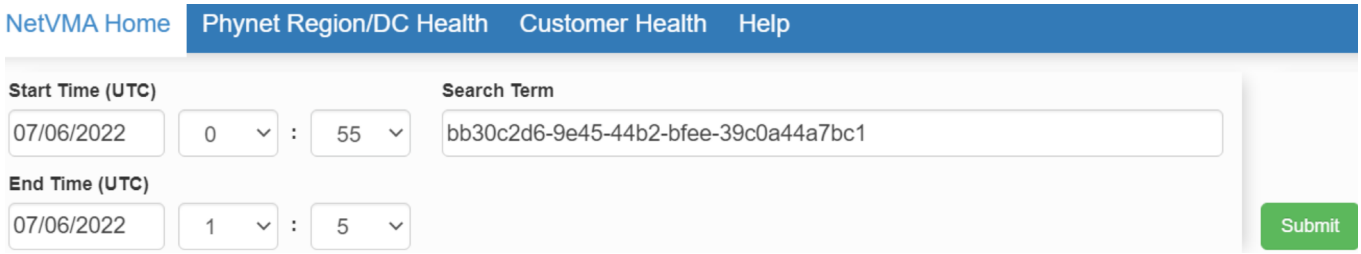


2. Run below KQL to get container ID

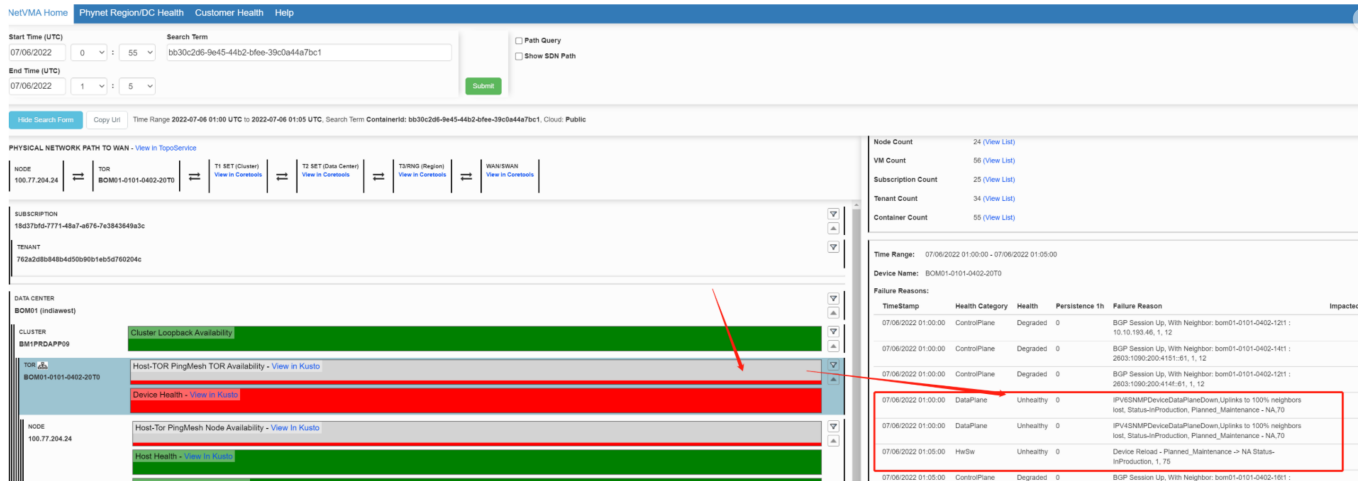
PreciseTimeStamp	Tenant	nodeId	containerId	role
2022-07-06 00:08:31.2101025	BM1PrdApp09	ee7ebf64-24a9-41c2-a691-50ff31533697	bb30c2d6-9e45-44b2-bfee-39c0a44a7bc1	DB_
2022-07-06 01:10:41.8977419	BM1PrdApp09	ee7ebf64-24a9-41c2-a691-50ff31533697	bb30c2d6-9e45-44b2-bfee-39c0a44a7bc1	DB_
2022-07-06 01:33:22.2419737	BM1PrdApp09	ee7ebf64-24a9-41c2-a691-50ff31533697	bb30c2d6-9e45-44b2-bfee-39c0a44a7bc1	DB_

```
cluster("Azurecm").database('AzureCM').LogContainerSnapshot
| where PreciseTimeStamp between(datetime(2022-07-06 00:00:00.0000000)..datetime(2022-07-06 02:05:00
| where tenantName =~ "762a2d8b848b4d50b90b1eb5d760204c" and roleInstanceName =~ "DB_IN_15"
| project PreciseTimeStamp, Tenant, nodeId, containerId, roleInstanceName, tenantName
```

3. Fill the issue time window and container ID in https://netvma.azure.net



4. Check if any hardware failure shown as below



If you have any doubts when following this page, please reach out to *xixia* for clarification and wiki/TSG improvement.