

When to engage HDI PG for issues related to on demand cluster

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Issue

HDI Activities failed with on demand cluster creation issues.

Resolution

The issue could be anywhere among following services. ADF --> ARM --> HDI

Most of the time, the originality of issue can be solved with resolution from this [TSG](#)

However, if there is still ambiguity in deciding ownership, you may follow the resolution in this TSG as below:

Since multiple HDI activities could share a single HDI on demand cluster, which was likely created by a different activity hours ago, hence it is important to locate this activity (i.e. the activity with provision task). We can start with query#1, where you need the region, linked service name, and time range of the incident.

Query#1

```
cluster('adfcus.kusto.windows.net')
.database('AzureDataFactory').GetHDIProvisionTaskFromLinkedService(linkedServiceName="private_ondemand", region="eastus", startTime=ago(10d), endTime=ago(10m))
```

==> ProvisionTaskId: 8c68ade7-d607-44b3-8899-987b2f27319d

With ProvisionTaskId, you can find details of cluster provisioning events with query#2

Query#2

```
cluster('azuredmprod.kusto.windows.net')
.database('AzureDataMovement').GetHDIProvisionTaskEvents(@'8c68ade7-d607-44b3-8899-987b2f27319d')
==>
```

| RecordTime | Event |
|-----------------------------|---|
| 2022-06-07 20:32:44.7156651 | Start Provision Task |
| 2022-06-07 20:32:44.9197393 | version:hzNPCPP9Yg8hNY4wt9AJGw=, ttl:00:05:00 |
| 2022-06-07 20:32:44.9354463 | parameter:{"OperationExpiresOn":"2022-06-07T21:02:44.9354463Z","Location":"EAST US","UserName":null |
| 2022-06-07 20:32:52.4567908 | creating cluster with serviceRequestId:ec5683ee-23aa-4e2d-a2f3-0532c412fe20 |
| 2022-06-07 20:32:53.0672202 | create cluster:private-2-08bdfc80-169e-47bb-93bt-b61c08f776da |
| 2022-06-07 20:57:58.7562908 | HandleProvisioningClusters:Ready |
| 2022-06-08 00:04:38.0323263 | HandleDeprovisioningClusters:NotFound |
| 2022-06-08 00:09:38.5098986 | Leave Provision Task |

Once you know the cluster name, and the serviceRequestId, you may use query#3 to find out if ADF's request has been sent to HDI

Query#3

cluster('adfcus.kusto.windows.net').database('AzureDataFactory').GetHDIOnDemandClusters("b2f6074a-5097-425b-94ce-3c68ac501d20", ago(1d), ago(10m)) You will need the subscriptionId and time range of incidents for this query.

| TIMESTAMP | httpMethod | httpStatusCode | resgrp | cluster | principalOid | serviceRequestId |
|-----------------------------|------------|----------------|---------------------------------|---|--------------------------------------|--------------------------------------|
| 2022-06-07 19:33:52.3831261 | DELETE | 409 | CNS_PVAESG-qa | noi-oet89out-1026-4209-dd15-98a62072cd03 | cyaba20e-bb06-4101-8064-846e9818600a | 26455e05-0067-417c-a195-1311c17a2407 |
| 2022-06-07 19:36:21.6888794 | DELETE | 202 | marketMELI | big-pivot-29b95465-6458-436e-8756-a23c355... | 8e18b06c-2116-46ce-8fe0-7ff4bd577dc5 | b84c40d0-e031-4671-90f4-2517bc4b49f4 |
| 2022-06-07 20:00:28.4577948 | PUT | 200 | dse-azure-japaneast | df4959859-1f51-4acb-ab22-35f7b6c0486b | ea0a9fab-2dcf-4d3e-9b4e-c390646baaf2 | 0d0fd4b2-ba93-471d-adb3-ad555176e3c0 |
| 2022-06-07 20:06:41.9584246 | PUT | 200 | conflation-cdpadf-prod-usw2-rg | cm4e2d540f-593d-4b98-ac0c-cdbf32296cc0 | 88c5a956-47c9-4214-9176-b27a0a26bc2a | f470d11e-89c3-4978-b490-1f296b72fe4b |
| 2022-06-07 20:09:53.9153769 | PUT | 200 | RG-Twyn-Research-Experimental | c24ec8508-5def-459a-8be4-0f6ffa2f4fda | 2ebb1e36-a617-4aa6-bed0-d17b16a6b632 | 0ba1ef37-0add-4cb9-becc-30446b52644d |
| 2022-06-07 20:13:24.6805947 | DELETE | 202 | conflation-cdpxxx-ei-uscs-rg | cmbcc11519-1ddc-487e-8b82-8074d33754d6 | 4ceb66ff-5449-4ab7-a8a5-d423202e0bad | 9e2cb199-fbc8-41fa-afa0-8339fa31b5da |
| 2022-06-07 20:16:03.2266449 | PUT | 200 | conflation-mchadf-prod-usw2-... | sp1b42b441fd-5693-49c0-a46e-eb4810f655c3 | 5c58813f-d3d1-4727-bf0a-d5792eafb78c | c370de1c-9b10-4d39-81c1-44363e8a93a0 |
| 2022-06-07 20:17:12.0197761 | PUT | 200 | conflation-mchadf-prod-weux-... | sp1b8c353ba6-613e-4805-bf81-ecba66d130d8 | 8287ece1-a36a-4f04-9778-33fcbec70284 | e313d9e5-3854-4f66-814f-026ded02f682 |
| 2022-06-07 20:32:52.4306350 | PUT | 200 | nubimetricsPrivateReports_rg | private-2-08bdfc80-169e-47bb-93bf-b61c08f7... | 4d29b8b5-33e9-4a1b-9f49-d66d4285394b | ec5683ee-23aa-4e2d-a2f3-0532c412fe20 |
| 2022-06-07 20:36:53.2135244 | PUT | 403 | ADF | OnDemandHdiResource4b8a395f-f34b-4dc9-9... | 9d37935d-db69-4cb3-943c-f1e374402188 | 9e644235-65a8-4b30-a2e2-ef50e1f8ab6f |
| 2022-06-07 20:56:15.7350697 | DELETE | 202 | conflation-cdpadf-prod-usw2-rg | sx476f151b-2679-4777-a9fa-09f2af547a05 | 88c5a956-47c9-4214-9176-b27a0a26bc2a | 98c914cf-cc6f-4506-a9eb-715b1643b773 |
| 2022-06-07 20:57:17.4676217 | PUT | 400 | NONPROD_FDS_API_DEV_EUS | porta81a8dea8-6dc6-47fa-93db-88f5270ff97d | b35e7650-aac5-42c2-b713-c8568beb8437 | cd289ee8-b380-4b41-a93f-09f51a5a97bc |

Once you find a match in query#3's output, the issue that leading to activity failure is in HDI PG's domain