Copy activity billing

Last updated by | Brian Wang | Apr 11, 2022 at 11:28 PM PDT

NOTE: You can use below kusto logs to search the billing logs for subscription if the required billing information is **within 90 days.**

Copy activity billing

Wednesday, April 17, 2019
3:22 PM

Please refer to the training session first before looking into it:

https://web.microsoftstream.com/video/0b04a1ff-0400-a521-caad-f1eac0e88ad0

From above training, the issue can either relate to small activity which may relate to trigger (Orchestration team) or big copy activity which may related to perf(Copy Activity), normally, it is not billing issue, you need to engage different resource to move forward.

TSG part below in more detail:

https://azure.microsoft.com/en-us/pricing/details/data-factory/data-pipeline/

1. How was copy activity billed?
   According to the data factory pricing(https://azure.microsoft.com/en-us/pricing/details/data-factory/data-pipeline/), each data movement activity will round to minute and multiply the used data integration unit, so the cost for copy activity is:
   Data movement activity duration(round to minute) * 1(min) / 60 * DIU(default 4)* $0.25/hour
   Minimal charge in Billing Event Quantity column is 1(min)/60 * DIU(default 4) = 0.0667, or 0.0333(DIU =2)

2. Where to find the billing information
   You can use below kusto log to search the billing log for subscription if the required billing information is within 90 days.
   Execute: [Web] [Desktop] [Web (Lens)] [Desktop (SAW)] https://azuredmprod.kusto.windows.net/AzureDataMovement

```
BillingEvent | where SubscriptionId contains "{sub id}"
```

Note: Plz be aware of the case insensitive match for SubscriptionId for Kusto.
For the billing table, quantity and MeterId column is the important information, the quantity is already rounded to minute and multiplied by DIU and displayed as hour, the meaning of each meter id is below:

MeterId	Activity Type	Unit price
9d6f5dbf-90a1-46bc-85b7-e9c3f92bae35	Copy activity on Azure Integration Runtime	$0.25/h
997a4c50-5127-44e1-928c-c047eebea827	Copy activity on Self-hosted Integration Runtime	$0.1/h
1b849aa0-5d71-4290-8c42-c7d49bbc7e95	Pipeline activity external on Self-hosted Integration Runtime	$0.0001/h
1eb459cb-8b5f-4520-be16-0c52ac6d05ba	Pipeline activity external on Azure Integration Runtime	$0.00025/h
b68a76e2-fd61-44a2-87c4-46cde3b9deb9	Pipeline activity on Self-hosted Integration Runtime	$0.002/h
59d063a4-87cd-40da-a237-0cd24bbb451d	Pipeline activity on Azure Integration Runtime	$0.005/h
5b0ab3a7-97ba-433e-b0e3-0519f80522e6	Data Flow Cluster - General Purpose vCores	$0.27/h/vCore

As mention in #1 , the cost of the activity is: unit price of the activity type * quantity
You can refer to the kusto below to get Quantity Of copy activity tasks, then you can understand why the cost is high.

```
BillingEvent
| where SubscriptionId contains "xxxxxxxx-xxxx-xxxx-xxxx-xxxxxxxxxxxx"
| where TIMESTAMP > datetime(2020-05-01 00:00:00) and TIMESTAMP < datetime(2020-05-02 00:0
| where MeterId == "9d6f5dbf-90a1-46bc-85b7-e9c3f92bae35"
| summarize sum(Quantity), count()
```

Pickup up one activity from BillingEvent to understand what exact the copy payload is.

```
CustomLogEvent
| where ActivityId == "6dbb3734-040d-4814-bbee-51fec0c55a0a"
| where TraceMessage contains "TransferServiceExecutorJobPayload"
```

3. How to refund?
All refund requests need to go through C+AI business operations team, rather than ADF PG, for review and approval.

Please file a new support ticket for the refund request:
Go to “Cost Management + Billing” on Azure portal, click on “New support request”
Choose “Issue Type = Billing” and “Problem Type = Refund Request”

Upon receiving the support ticket, C+AI business operations team will then review the case and issue the fund if the case gets approved.

Typical cases:
1. Caused by huge amount of small copy activities

a. Based on the "How was copy activity billed", the cost for copy activities at least cost

Copy activity count * 1(min) / 60 * DIU(default 4)* $0.25/hour, if the copy activity count is huge, the billing is high. Explain this to the customer and work with the customer to understand his business to check with the customer why there were so many copy activities scheduled.

2. Caused by stuck jobs
   See

[How to deal with Stuck jobs]

for the definition of stuck jobs, if the copy job stuck and pipeline timeout is 7 days(default), it would be charged for 7 days. If the customer asks for refund, contact product team.

3. Caused by low performance tier of data store
   Copy activity billing based on duration, so if the data store is not powerful which would cause the low
   , typical cases are concurrent copy to S0 SQL databases or low RU CosmosDB.

Kusto function to share:

Telemetry_ADFBillingEventStats_Monthly | where WindowStartTS >= datetime('2021-12-05') | where WindowStartTS <= datetime('2021-12-26') | where SubscriptionId == 'XXXXXX'

It will get the Quantity for each MID.

Dataflow billing meter:

AE Central 4fc0fdf6-55cf-4675-9476-4e204d3d69d8 General Purpose
AE Central 8e90b0d9-3d4c-4c70-b766-81fa90eee527 Compute Optimized
AE Central e1609aa7-3f42-466a-a2d9-82bc055efef9 Memory Optimized
AE North 5a94d5d7-1ba7-4bb4-9b0d-98f36047ebc9 Memory Optimized
AE North 6d004f33-a8e3-44ea-88af-3297984ab3f4 General Purpose
AE North 867b7b33-e177-4054-b8f5-d43e2e53ec42 Compute Optimized
AP East 7db9bb14-1d54-4dc4-8df5-a8f42af6c39b Compute Optimized
AP East c1b2fd9e-3f1b-420b-a75a-1311f57deb3b Memory Optimized
AP East c6b31534-079e-48db-87ca-96b75a4e0bf2 General Purpose
AP Southeast 25e5ad49-2e0d-413c-a13a-4f986e4ebbcf Memory Optimized
AP Southeast 33157398-db1c-4982-96d5-a8f97a29aed3 General Purpose
AP Southeast ec49e98b-cfc9-4a1f-bba3-def5fd3a3037 Compute Optimized
AU Central ae32e9a4-107e-4264-b9b1-98ebc0aa1064 Compute Optimized
AU Central b1a88401-0310-447f-8e2e-852902cd6078 General Purpose
AU Central dcab6d4f-4948-4214-b813-0ace0df52ae2 Memory Optimized
AU Central 2 53a88ae1-b2b8-4d46-85b9-bacc5a463d9b Memory Optimized
AU Central 2 79111b7d-1d9d-406c-a435-bffade64227d General Purpose
AU Central 2 eb51500c-f88b-4d56-a39e-6284a0fc0a21 Compute Optimized
AU East 619c3070-a030-4987-9460-2f8cd1bf2e75 General Purpose
AU East 70b4c625-7396-4524-9561-7b5fe1744984 Compute Optimized
AU East c5e2a62a-60d3-47be-baa5-0a4b087b2c15 Memory Optimized
AU Southeast 1b6d5113-420c-45ab-895b-e485a032211b Compute Optimized AU Southeast 84d927a2-e8a0-4a6d-b818-c1c357a21801 General Purpose

AU Southeast f190d2c5-b605-4fdc-892f-aa9e599bbbad Memory Optimized
BR South 2e53d946-30e7-46ad-9e36-db1239506cad General Purpose
BR South 2ff35a20-2b5a-450b-8e64-4ba3742847a6 Compute Optimized
BR South f0bebec8-c4b2-48d9-9f30-96584a0b2f15 Memory Optimized
CA Central 3c272499-541d-4d79-b2b7-2e02d0d78f43 Compute Optimized
CA Central 45a09756-908a-4d6a-b508-b46f2422850f Memory Optimized
CA Central b236ede6-8076-4ea5-aac2-217dbde483c6 General Purpose
CA East 81073747-2bfe-4cda-b74d-1dd37ebe2fb2 Memory Optimized
CA East c256cdfd-7a99-4b4a-bb14-f712717540ce General Purpose
CA East ec55750c-705d-4ca9-bdb6-91d63c1a6d18 Compute Optimized
EU North 288a2776-d667-4525-921e-c74850bbcdec General Purpose
EU North 6b1a1313-7026-4eb1-be7d-14007c35d9f5 Compute Optimized
EU North 8e5d39c0-9502-49d9-b144-ec9163699820 Memory Optimized
EU West 7f517153-cffb-43b6-a6b5-93bc78c525ff Memory Optimized
EU West dd4ff10a-ea34-4f14-bea8-ef8db939fe26 General Purpose
EU West dfc601c2-3ad1-401f-b304-250259eeda7c Compute Optimized
FR Central 0b52e6ae-bee7-4e69-a325-1fc3a9983913 General Purpose
FR Central 35c63817-c957-4117-aeed-cdebad61cd45 Memory Optimized
FR Central 5fee61c3-a201-439b-9319-c880f4457922 Compute Optimized
FR South 78f002a2-bc1e-45e0-aea1-97d7ae6ca90e Memory Optimized
FR South 82bfa01f-6de8-4121-af58-ba61943ba9b7 Compute Optimized
FR South 94b0a144-7f02-421b-af4b-e17527a77072 General Purpose
IN Central 2bedaced-0fee-4d37-b84d-14f6f29dd7e1 Memory Optimized
IN Central 378190e2-140a-41fc-a6e4-5872d20bb0e4 General Purpose
IN Central 420225dd-4017-4106-a493-a2db82453787 Compute Optimized IN South c4b67a4f-827d-4ac0-afea-76d9971cb245 General Purpose
IN South d9034ff9-8b1c-48cd-a62e-82f81abf892c Memory Optimized
IN South fa24c36c-8d6d-4db7-9069-ff3d3b49363c Compute Optimized
IN West 02050c92-3e22-4262-b55d-058496fb4a9d General Purpose
IN West 3f10711a-61f3-489e-b5f7-23c9d38d5cbd Compute Optimized
IN West aad20859-ef4d-410f-8823-bd3ec8c0fe44 Memory Optimized
JA East 1e933efc-d641-4e7f-9180-22c8fdcfec3a General Purpose
JA East 4ce0958a-4d53-4684-86cd-96cf6ad11202 Memory Optimized
JA East 68fbe559-afcd-494c-bdf2-7a5c7d87f0c7 Compute Optimized
JA West 5fb9f7a4-2aa5-4212-b417-77f770d235c9 Memory Optimized
JA West e74cabbd-ef4c-4c22-b7e2-4b706fb6f28f General Purpose
JA West f85e3f73-6a3b-45c4-b5aa-d25a7aa4083b Compute Optimized
KR Central 158563da-c226-4da1-9c2c-f177aa11602b Compute Optimized
KR Central b4f631ea-79b0-4ed7-9d1b-ea3f03e2c6c8 Memory Optimized
KR Central ce88b20c-e831-4b2c-8074-be8115a913fe General Purpose
KR South 7b22a336-90e2-4fd4-aaf5-5765d807c5db Memory Optimized
KR South 8f9ee945-87e3-4056-abc0-c6c99cba81bd General Purpose
KR South cf67ae0b-4bb2-4bd1-82ee-e9f138d92c02 Compute Optimized
UK South 1dd6e13b-487a-4791-9134-bf37aaab8fc6 General Purpose
UK South 6f282e9c-b1a7-496a-81c5-8954222c6082 Memory Optimized
UK South bd2858e1-ac8d-4db4-9602-4ef1eae65c60 Compute Optimized
UK West 2b64f611-841f-441f-b012-915485784eb3 Memory Optimized
UK West 8614b57b-09f0-45d8-90a7-298374f6317e Compute Optimized
UK West f058e41b-8b88-4167-a5ba-51315883f1af General Purpose

US Central 0dc3103e-6d1c-4783-9674-653ee5d22deb Memory Optimized
US Central 45574a5c-c074-4237-ba4c-ac3908beee22 Compute Optimized
US Central 5acba830-0231-4b74-a4f1-65ff86fa04ae General Purpose
US East 3942310a-a1e3-4df6-854c-70a18805957e General Purpose
US East 61b19e88-258a-4e50-97b3-f725d65126f8 Compute Optimized
US East a000728c-9ca8-42e7-a4b1-85b5f8957006 Memory Optimized
US East 2 1308dc86-2590-4cfa-afce-a9b051bb1d82 General Purpose
US East 2 33da7bcf-6ed1-4632-a680-89ebda67b07d Compute Optimized
US East 2 7ca7c989-1135-4496-9082-a52c3fd8cc29 Memory Optimized
US North Central 4ea43cca-1532-4403-bae7-f7dd7fda95ed Memory Optimized
US North Central 5b0ab3a7-97ba-433e-b0e3-0519f80522e6 General Purpose
US North Central fb403acb-f342-4bc7-88c9-213918522586 Compute Optimized
US South Central 3c4eee90-bee3-4ec5-8d87-4ada0e5a85e7 Compute Optimized
US South Central 8e6982f6-1243-4af8-8f78-1aa49d5b555d Memory Optimized
US South Central b22e87c1-750a-4b4f-98b3-7f34e3f7e003 General Purpose
US West 25ebfa3b-ba92-4647-98b4-c26955eb3a36 General Purpose
US West 8adac609-38ad-4f57-be27-e7a2bbbcf2c8 Compute Optimized
US West da02480a-e745-40f3-91d6-9a9e6c6c3d2b Memory Optimized
US West 2 c900c089-9af3-4ce8-b493-8704dc1763f4 Memory Optimized
US West 2 f6d8b01d-a1bf-4c01-90f2-7b3a17c3de34 General Purpose
US West 2 fe24abe6-f785-4de3-bb80-715529a9a74f Compute Optimized
US West Central 3aa7cdcd-6f23-48df-8b16-7a9d54a6fa05 Compute Optimized
US West Central 3ab94b3f-2dd1-40ba-a071-05d8f166053d Memory Optimized
US West Central e2c755c8-46b3-4eaf-a119-de7fb50e2105 General Purpose
ZA North 64d147fd-5957-4949-b371-0dd983559ed9 Compute Optimized ZA North ccd8b22f-e672-4430-ace3-3e5bcb73297f General Purpose
ZA North eb01e6bf-f9ae-434c-b393-05e8cfee9613 Memory Optimized
ZA West 2543ddbd-1b82-4e73-a05a-f827852f3813 Memory Optimized

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