# Increase activity run throttling number (quota)

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### When

For some ADF customers, with business/usage increasement, they may want to increase activity run throttling number to run more activities in parallel.

Mostly the customer will meet following error:

There are substantial concurrent copy activity executions which is causing failures due to throttling under subscription 7cb8355e-c94a-4fcf-8c08-f3c6dbfd824a, region cu and limitation 6000. Please reduce the concurrent executions. For limits, refer <a href="https://aka.ms/adflimits">https://aka.ms/adflimits</a> ☑. Note: For pipeline activity (get-metadata, lookup, delete...) and external activity (custom, HDI...), the error message is similar.

# Azure Subscription Service Limits, Quotas, and Constraints

Azure subscription and service limits, quotas, and constraints 2

# **Data Factory limits:**

- Data Factory v2 Limits ☑
- Data Factory v1 Limits ☑

#### How

Based on ADF public doc <a href="https://learn.microsoft.com/en-us/azure/azure-resource-manager/management/azure-subscription-service-limits#data-factory-limits">https://learn.microsoft.com/en-us/azure-azure-resource-manager/management/azure-subscription-service-limits#data-factory-limits</a> <a href="mainto:ci.">c</a>, in official, we don't allow to help customer adjust/increase the throttling number while suggest customer to use one of following solutions as workaround.

# Option-1:

Ask customer to check his pipeline pattern (for example, lookup + foreach + copy) and adjust the frequency and interval-time (for example, batchSize in foreach + waiting time) to avoid too many activities are triggered and running at the same time.

# Option-2:

Ask customer to split his business requirement into different pipelines, run the pipelines under different subscriptions, today the throttling number of concurrent-activity execution is per subscription per region.

1. Do we support moving Data Factory across Subscriptions?

Yes, Data Factory can be moved across different Resource Groups or Subscriptions. More Information 2

## Option-3:

Ask customer to use SHIR as compute to run the pipeline/activities. Here ADF does not have concurrent-activity-run number limitation.

# **Exception Handling**

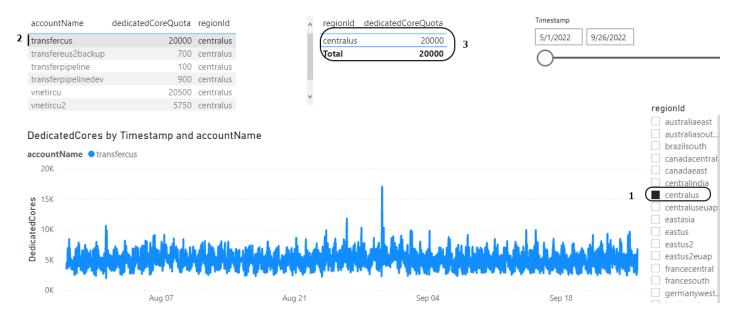
If customer insists on using Azure-IR to run large number of activities and escalate the case, please contact IM (incident manager) and PMs (<u>jianleishen@microsoft.com</u>, <u>sunil.sabat@microsoft.com</u>...) to evaluate it if the customer is VVIP (for example, Walmart, Walgreens, Adobe...)

1. Use following kusto query to check the customer.

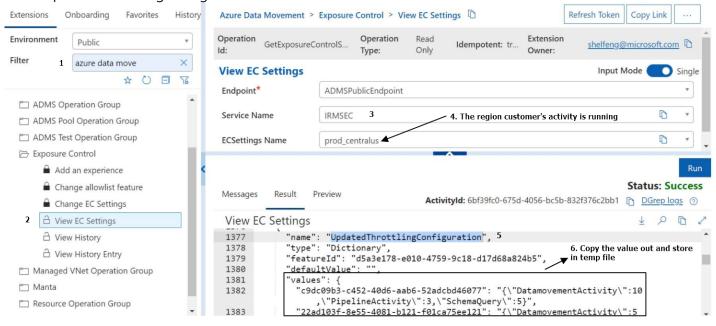
```
cluster('u360sec.kusto.windows.net').database('KPIData').CustomerSubscriptions
| where SubscriptionId == "<customer subId>"
| project SubscriptionId, CustomerName, UsageType
```

- 2. After evaluation, if IM and PMs agree to help this customer temporally increase throttling number (quota) to satisfy his requirement, please take following action step by step.
  - Login <u>BacthQuota PowerBi</u> 

     id to check the max quota and current usage of that region, ensure customer expected number is <= Total/2, for example:</li>

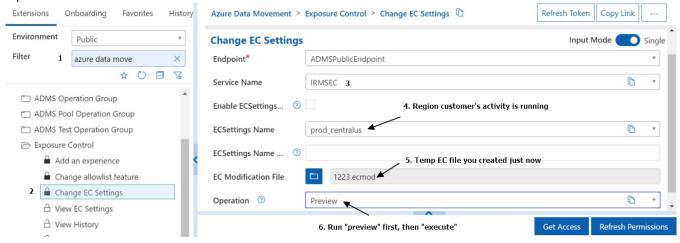


 Login SAW machine and use Geneva Action to get existed value of EC "UpdatedThrottlingConfiguration"



Append customer's subId + expected number into that temp file (example file:)

Update backend EC value with Geneva Action.



 Add new task in related sev2 ICM (for example, <u>https://portal.microsofticm.com/imp/v3/incidents/details/355271833/home</u> ☑) and ask PMs to have follow-up with this customer, then rollback related EC change later.

## Note

If you meet other issue, please contact SME (zhanyu@microsoft.com) to get help.

#### **Additional Information:**

Icm References:

• Author: zhanyu

• Reviewer: kbanil

Keywords: throttling, quota

### How good have you found this content?



