

Monitoring job progress in Azure Batch

Last updated by | Ranjith Katukojwala | Mar 7, 2023 at 11:35 AM PST

Contents

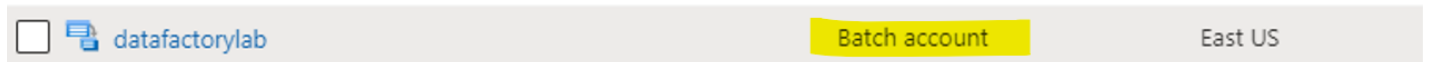
- [Introduction](#)
- [Steps](#)

Introduction

Customers can use Azure Batch to submit their custom code using Data Factory to VMs in the Azure Batch Pool. At times, the job gets stuck or takes lot of time to finish. In order to monitor the job and check the progress of it, submitted using Data Factory to the Batch Pool, refer the steps below.

Steps

1. Ask customer to click on the **Batch account** used by the Data Factory to submit jobs:



2. Click on the **Jobs** under the Features menu in the Batch account page:

datafactorylab
Batch account

Search (Ctrl+/) « Refresh Delete Keys Open in Batch Explorer

Overview

- Activity log
- Access control (IAM)
- Tags

Settings

- Quick start
- Properties
- Quotas
- Identity
- Encryption
- Storage account
- Keys
- Locks
- Export template

Features

- Applications
- Pools
- Jobs**
- Job schedules
- Certificates

Resource group (change) : datafactorylabsRG

Status : Online

Location : East US

Subscription (change) : Microsoft Azure Internal Consumption

Subscription ID : 25a2f724-a21b-4247-a071-58e58f8ae91f

Tags (change) : [Click here to add tags](#)

Show data for last:

1 hour 6 hours **1 day** 7 days 30 days

vCPU minutes

10
5
0

Jul 6 6 AM 12 PM UTC+05:30

Dedicated Core Count... datafactorylab: 2.54

LowPriority Core Cou... datafactorylab: 0

Failed tasks

2
1.5
1
0.5
0

Task Fail Event datafactorylab: 7

3. Customer may have one or more **pools** listed in the jobs section. Select the one used by the Batch activity

+ Add + Add (JSON editor) Columns Refresh

Queries: All jobs

Advanced query

Filter by ID or pool

Pagination effort limit

ID	State	Pool
adv2-dataFactoryPool	Active	dataFactoryPool

4. You will now have a list of the **tasks** submitted to the batch pool. Select the one which is corresponding to the activity you are monitoring. The task name will be the activityRunId

Approximate task count (3 Tasks) ① 100.00% (3 / 3 Completed)

Queries: All tasks 📄 🗑️

Advanced query ▾

Filter by task ID (start with) Pagination effort limit ①

Task	State
57e51a0d-96ea-490b-a3d2-da70f6005137	Completed
c0388a71-990e-4db6-9a81-73ab8c2ff453 (FailureExitCode) ①	Completed
cdaaf213-1cf2-4fe6-b743-5fce6ac6b49f Activity RunId	Completed

5. You can check the **job progress** and also capture the **stderr.txt** and **stdout.txt** for further investigation/troubleshooting. The same files are also uploaded to the adfjobs container in the storage account.

Refresh Delete Terminate Reactivate

Batch account : datafactorylab State : Completed
 Pool : dataFactoryPool Start time : Monday, July 6, 2020, 18:29:03
 Node : tvmps_ccbb1a86b8bd6a089e85bb10342810f699d8ced8c62ae6f8ed314f28cad834c6_d Node Name End time : Monday, July 6, 2020, 18:29:04

Active Jul 6, 2020 Running 0.38s Completed Jul 6, 2020 (38 minutes ago) **Job Progress**

Path://

Location: root /

File name	Creation time	Last modified	Size
wd			
stderr.txt	Jul 6, 18:29:03	Jul 6, 18:29:03	0 Bytes
stdout.txt	Jul 6, 18:29:03	Jul 6, 18:29:04	15 Bytes

Logs.
 stderr.txt will contain error if the job failed.
 stdout.txt will contain the job progress/output information

6. The wd directory contains the files & libraries used by the application. These are copied before to the VMs for job execution.

Refresh Delete Terminate Reactivate

Batch account : datafactorylab State : Completed
 Pool : dataFactoryPool Start time : Monday, July 6, 2020, 11
 Node : tvmps_ccbb1a86b8bd6a089e85bb10342810f699d8ced8c62ae6f8ed314f28cad834c6_d End time : Monday, July 6, 2020, 11

Active Jul 6, 2020 Running 0.38s Completed Jul 6, 2020 (39 minutes ago)

Path://

Location: root / wd

File name	Creation time	Last modified
[..]		
CustomApp.exe	Jul 6, 18:29:03	Jul 6, 18:29:03
CustomApp.exe.config	Jul 6, 18:29:03	Jul 6, 18:29:03
CustomApp.pdb	Jul 6, 18:29:03	Jul 6, 18:29:03

Additional Information:

- Icm References:**

- **Author:** vimals
- **Reviewer:** vimals
- **Keywords:**

How good have you found this content?

