

Updating property type is not supported

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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Issue

CI/CD release pipeline failing with the following error:

```
2020-07-06T09:50:50.8716614Z There were errors in your deployment. Error code: DeploymentFailed.
2020-07-06T09:50:50.8760242Z ##[error]At least one resource deployment operation failed. Please list deployment operations for details. Please see https://aka.ms/azure-devops-deployments
2020-07-06T09:50:50.8771655Z ##[error]Details:
2020-07-06T09:50:50.8772837Z ##[error]DataFactoryPropertyUpdateNotSupported: Updating property type is not supported.
2020-07-06T09:50:50.8774148Z ##[error]DataFactoryPropertyUpdateNotSupported: Updating property type is not supported.
2020-07-06T09:50:50.8775530Z ##[error]Check out the troubleshooting guide to see if your issue is addressed: https://docs.microsoft.com/en-us/azure/devops/pipelines/troubleshooting-ci-cd-pipeline-errors
2020-07-06T09:50:50.8776801Z ##[error]Task failed while creating or updating the template deployment.
```

Investigation

Since, the error didn't specify which property type is causing a conflict, we checked the Kusto logs:

```
cluster('ARMProd').database('ARMProd').EventServiceEntries
| where PreciseTimeStamp >= datetime(2020-07-06 09:00:00) and PreciseTimeStamp < datetime(2020-07-06 11:50:35) //Timestamp in UTC from the agent job logs
| where subscriptionId == "{SubscriptionId}" // SubscriptionId
| where resourceUri has "{targetDataFactoryName}" //targetDataFactoryName
| project PreciseTimeStamp, ActivityId, operationName, eventName, status, subStatus, httpRequest, properties, resourceUri
| sort by PreciseTimeStamp asc
```

We noticed that the deployment is failing while **writing** to **IntegrationRuntime**.

```
PreciseTimeStamp: 2020-07-06 09:50:34.264
ActivityId: 26ba4d59-5e43-496a-88d9-6483df3d3c7
operationName: Microsoft.DataFactory/factories/integrationRuntimes/write
eventName: EndRequest
status: Failed
subStatus: Conflict
properties: {
  "statusCode": "Conflict",
  "serviceRequestId": null,
  "statusMessage": "[\"error\":{\\\"code\\\":\\\"DataFactoryPropertyUpdateNotSupported\\\",\\\"message\\\":\\\"Updating property type is not supported.\\\"}]",
  "eventCategory": "Administrative"
}
resourceUri: /subscriptions/3e959272-bef3-49e1-92d0-30cc4b50d1e1/resourcegroups/coe-ap-batchkingdom/providers/Microsoft.DataFactory/factories/xto-1234567890/integrationRuntimes/coe-ap-batchkingdom
```

We checked the ARM template which customer was deploying to the target factory, and checked the IntegrationRuntime settings and noticed it's a shared IR. You can notice the typeProperties section, a shared IR will have this property:

```
{
  "name": "[concat(parameters('factoryName'), '/coe-ap')]",
  "type": "Microsoft.DataFactory/factories/integrationRuntimes",
  "apiVersion": "2018-06-01",
  "properties": {
    "type": "SelfHosted",
    "typeProperties": {
      "linkedInfo": {
        "resourceId": "[parameters('coe-ap_properties_typeProperties_linkedInfo_resourceId')]",
        "authorizationType": "Rbac"
      }
    }
  }
},
```

Resolution

This is most likely due to an Integration Runtime with the same name in the target factory but with a different type. Integration Runtime need to be same type when deploying.

Please refer to this Best Practices for CI/CD below: <https://docs.microsoft.com/en-us/azure/data-factory/continuous-integration-deployment#best-practices-for-cicd> [🔗](#)

- Integration runtimes don't change often and are similar across all stages in your CI/CD. So, **Data Factory expects you to have the same name and type of integration runtime across all stages of CI/CD.** If the name and types & properties are different, make sure to match the source and target IR configuration and then deploy the release pipeline.
- If you want to share integration runtimes across all stages, consider using a ternary factory just to contain the shared integration runtimes. You can use this shared factory in all of your environments as a linked integration runtime type.

Additional Information:

- **Icm References:** <https://icm.ad.msft.net/imp/v3/incidents/details/195478580/home> 
- **Author:** vimals
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