

SSIS IR Failed to remove from PowerShell : InternalServerError

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SSIS IR Failed to remove : InternalServerError

TSG ID (to be included in SR Internal title if used)

Keywords

- Azure SSIS IR
- InternalServerError
- PowerShell

Contents

- SSIS IR Failed to remove : InternalServerError
 - TSG ID (to be included in SR Internal title if used)
 - Keywords
 - Background
 - Identification
 - Mitigation
 - Verifications

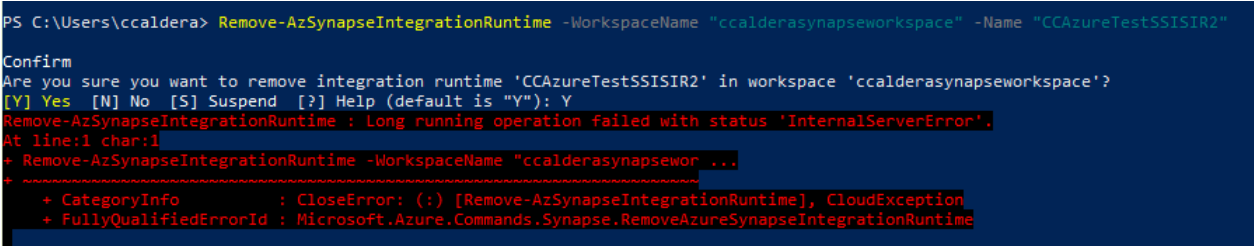
Background

Azure SSIS IR failed to remove from PowerShell :

```
Remove-AzSynapseIntegrationRuntime : Long running operation failed with status 'InternalServerError'.
At line:1 char:1
+ Remove-AzSynapseIntegrationRuntime -WorkspaceName "ccalderasynapsewor ...
+ ~~~~~
+ CategoryInfo          : CloseError: (:) [Remove-AzSynapseIntegrationRuntime], CloudException
+ FullyQualifiedErrorId : Microsoft.Azure.Commands.Synapse.RemoveAzureSynapseIntegrationRuntime
```

Identification

- PowerShell failed to execute the command : InternalServerError



- Kusto

1. If the customer does not provide the "Activity ID", find the "Delete" operation

```
// Synapse RP logs
//correlationId = ServiceRequestId on HttpIncomingRequests
cluster('analytics365prod.kusto.windows.net').database('Analytics365PROD').RpApiOperationsTelemetryEvent
| where workspaceName == "ccalderasynapseworkspace" and requestUri contains "CCAzureTestSSISIR2"
| where operationMethodName contains "Delete"
| project TIMESTAMP, subscription,workspaceName, operationMethodName, correlationId, httpStatusCode, httpMethod,
requestUri, HostingRegion, userAgent
```

TIMESTAMP	subscription	workspaceName	operationMethodName	correlationId	httpStatusCode	httpMethod	requestUri
2022-01-24 09:45:36.3963894	6b757c2b-ce42-4e93-80a3-bf16765afa3b	ccalderasynapseworkspace	DeleteIntegrationRuntime	21c18a20-3d9a-4c99-8536-051d641f347b	202	DELETE	https://rpservice.eastus.synapse.azure.net/subscriptions/6b757c2b-ce42-4e93-80a3-bf16765afa3b/resourceGroups/ccalderasynapseworksp
2022-01-24 12:46:17.2816571	6b757c2b-ce42-4e93-80a3-bf16765afa3b	ccalderasynapseworkspace	DeleteIntegrationRuntime	609ffa63-a042-4ab0-9e37-625dbd6d32be	202	DELETE	https://rpservice.eastus.synapse.azure.net/subscriptions/6b757c2b-ce42-4e93-80a3-bf16765afa3b/resourceGroups/ccalderasynapseworksp

2. Using the "correlationId", check the "Message" column on "RpApiOperationsTelemetryEvent"

```
// Synapse RP detail logs - Typically used by filtering with a correlationId.
// Join ARM logs with azureCorrelationId
// E2E tracing ActivityId -> clientCorrelationId
// clientCorrelationId (ActivityID in error) or, CorrelationId from RpApiOperationsTelemetryEvent
cluster('analytics365prod.kusto.windows.net').database('Analytics365PROD').LogEntry
| where correlationId == "fb9ffa63-a042-4ab0-9e37-625dbd6d32be" //or clientCorrelationId == "0006a113-7060-47f4-88e8-541f336a20d1"
//| project TIMESTAMP, resourceId, applicationName, loggerName, identifier, message, azureCorrelationId, correlationId, clientCorrelationId, HostingRegion
```

	loggerName	identifier	message
err2	DeleteDataFactory	DeleteDataFactory	[{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.","target":"null","details":"null","error":null}]
err2	DeleteDataFactory	DeleteDataFactory	[{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.","target":"null","details":"null","error":null}]
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s/b67...	PartnerAADTokenV...	ValidAudienceInfo	[{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.","target":"null","details":"null","error":null}]
s/b67...	PartnerAADTokenV...	ValidAudienceInfo	[{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.","target":"null","details":"null","error":null}]
s/b67...	PartnerAADTokenV...	ValidAudienceInfo	[{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.","target":"null","details":"null","error":null}]
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```
{"code":"IntegrationRuntimeCannotModify","message":"Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details.", "target":null, "details":null, "error":null}
```

3. Capture the "clientcorrelationId" from "RpApiOperationsTelemetryEvent" and check the "AdfTraceEvent" for more information (exception)

```
// ADF detail logs - Typically used by filtering with a TraceCorrelationId.
// ComponentId: ClusterResourceProvider/MetadadataManager
// TraceCorrelationId (ActivityID in error)
cluster('adfcus.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| union cluster('adfnue.kusto.windows.net').database('AzureDataFactory').AdfTraceEvent
| where TraceCorrelationId == "93bd3c19-2f4e-4d46-83bc-8b0943450794"
//| project env_time, env_cloud_role, Message, ComponentId
```

TraceCorrelationId	Message
93bd3c19-2f4e-4d...	ConvertToSchemaWrapperInternal...
93bd3c19-2f4e-4d...	IntegrationRuntime /subscriptions/6b757c2b-ce42-4e93-80a3-bf16765afa3b/resourceGroups/calderasynapseworkspaces/providers/Microsoft.DataFactory/factories/calderasynapseworkspace/integrationruntimes/CCAzureTestSSISIR2: V2 schema.
93bd3c19-2f4e-4d...	ControllerBase.ResourceKind[168] Stop - The resourcekind string from headers is Workspace and the resourceKind is Workspace.
93bd3c19-2f4e-4d...	Exception translates to response with HttpStatusCode: Conflict, Action: DeleteIntegrationRuntimeAsync, Exception: OperationException: Microsoft.ADF.Core.OperationException: Integration Runtime can only be updated/deleted when it is in 'Initial' or 'Stopped' state. Current state: 'Started'. Refer to https://go.microsoft.com/fwlink/?linkid=2099434 for more details. at Microsoft.ADF.ResourceProvider.IntegrationRuntimeHandlerManagedReserved.ValidateBeforeDeleteIntegrationRuntime(IntegrationRuntimeSchemaWrapper wrapper) in C:\source\ResourceProvider\src\Controllers\FX\IntegrationRuntimeHandlerManagedReserved.cs:line 76 at Microsoft.ADF.ResourceProvider.IntegrationRuntimeController.<DeleteIntegrationRuntimeAsync>d__40.MoveNext() in C:\source\ResourceProvider\src\Controllers\FX\APIControllers\IntegrationRuntimeController.cs:line 351
93bd3c19-2f4e-4d...	--- End of stack trace from previous location where exception was thrown --- at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw() at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task) at System.Threading.Tasks.TaskHelpersExtensions.<CastToObject>d__11.MoveNext() --- End of stack trace from previous location where exception was thrown --- at WorkspaceUpdateResponseFilterAttribute.OnActionExecutedAsync[59]: Start.

```
Exception translates to response with HttpStatusCode: Conflict, Action: DeleteIntegrationRuntimeAsync, Exception: OperationException: Microsoft.ADF.Core.Opera
at Microsoft.ADF.ResourceProvider.IntegrationRuntimeHandlerManagedReserved.ValidateBeforeDeleteIntegrationRuntime(IntegrationRuntimeSchemaWrapper wrapper)
at Microsoft.ADF.ResourceProvider.IntegrationRuntimeController.<DeleteIntegrationRuntimeAsync>d__40.MoveNext() in C:\source\ResourceProvider\src\Controller
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Threading.Tasks.TaskHelpersExtensions.<CastToObject>d__11.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Web.Http.Controllers.ApiControllerActionInvoker.<InvokeActionAsyncCore>d__1.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Microsoft.ADF.Common.WebCore.ExceptionHandlingActionInvokerBase.<InvokeActionAsync>d__8.MoveNext() in C:\source\Core\Mig\WebCore\ExceptionHandlingAction
at Microsoft.ADF.ResourceProvider.IntegrationRuntimeHandlerManagedReserved.ValidateBeforeDeleteIntegrationRuntime(IntegrationRuntimeSchemaWrapper wrapper)
at Microsoft.ADF.ResourceProvider.IntegrationRuntimeController.<DeleteIntegrationRuntimeAsync>d__40.MoveNext() in C:\source\ResourceProvider\src\Controller
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Threading.Tasks.TaskHelpersExtensions.<CastToObject>d__11.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
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at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at System.Web.Http.Controllers.ApiControllerActionInvoker.<InvokeActionAsyncCore>d__1.MoveNext()
--- End of stack trace from previous location where exception was thrown ---
at System.Runtime.ExceptionServices.ExceptionDispatchInfo.Throw()
at System.Runtime.CompilerServices.TaskAwaiter.HandleNonSuccessAndDebuggerNotification(Task task)
at Microsoft.ADF.Common.WebCore.ExceptionHandlingActionInvokerBase.<InvokeActionAsync>d__8.MoveNext() in C:\source\Core\Mig\WebCore\ExceptionHandlingAction
```

Mitigation

The SSIS IR needs to be stopped before any management operation

Verifications

Verify the SSIS IR status from Synapse workspace (UI) or PowerShell before make any changes.

```
PS C:\Users\ccaldera> Get-AzSynapseIntegrationRuntime -WorkspaceName "ccalderasynapseworkspace" -Name "CCAzureTestSSISIR2"

Location                : East US
NodeSize                 : Standard_D8_v3
NodeCount                : 1
MaxParallelExecutionsPerNode : 8
CatalogServerEndpoint   : ccsqldatabasesvr.database.windows.net
CatalogAdminUserName    : sqladminuser
CatalogAdminPassword    : *****
CatalogPricingTier      : Basic
VNetId                  :
Subnet                   :
PublicIPs                :
DataFlowCoreCount       :
DataFlowComputeType     :
DataFlowTimeToLive      :
State                    : Started
LicenseType              : LicenseIncluded
SetupScriptContainerSasUri :
DataProxyIntegrationRuntimeName :
DataProxyStagingLinkedServiceName :
DataProxyStagingPath    :
Edition                  : Standard
ExpressCustomSetup       :
Name                     : CCAzureTestSSISIR2
Type                     : Managed
ResourceGroupName       : ccalderasynapseworkspacerg
WorkspaceName           : ccalderasynapseworkspace
Description              :
Id                       : /subscriptions/6b757c2b-ce42-4e93-80a3-bf16765afa3b/resourceGroups/ccalderasynapseworkspacerg/providers/Microsoft.Synapse/
```