

APAR OA63025

DFSMSdfp OAM

Publication Update Document

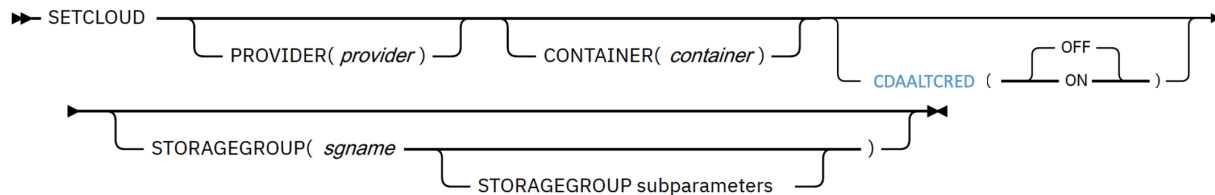
The z/OS DFSMS OAM Planning, Installation, and Storage Administration Guide for Object Support (V2R5 version publication numbers: SC23-6866-50) to be updated as follows...

- Note:
1. Red text with strikethrough should be removed.
 2. Blue text is new text that should be added.
 3. Black text is existing text for reference.
 4. '...' means the content here doesn't contain any new changes and will not be shown.

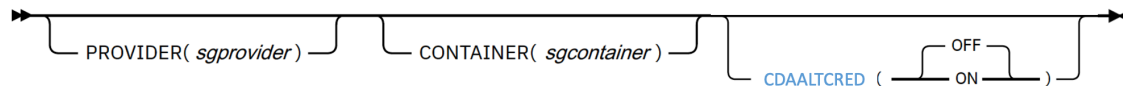
Chapter 3. Migrating, installing, and customizing OAM -> 6 Changing system libraries -> SETCLOUD statement for cloud storage -> SETCLOUD statement syntax diagram on page 116:

Add CDAALTCRED keyword and values to the "SETCLOUD statement syntax" and the "STORAGEGROUP subparameters" as below:

SETCLOUD statement syntax



STORAGEGROUP subparameters



-> "SETCLOUD keyword definitions" session on page 116:

Add CDAALTCRED keyword definition as below in this session before the STORAGEGROUP keyword definition:

CONTAINER (container)

Specifies the global container (or bucket) name to be used for all storage groups for which there is no container that is specified. The value for container:

...
CONTAINER is required if PROVIDER is specified at the global level; otherwise, it is optional. There is no default value.

CDAALTCRED (*mode*)

Specifies whether the CDA alternative credential function is enabled. If enabled, the alternative cloud credential (which needs to be configured and stored in a Cloud Data Access (CDA) configuration file) is to be used when accessing cloud data. This keyword can be specified at the global level or at the storage group level. Valid values for *mode* are:

OFF

The CDA alternative credential function is not enabled. The main cloud credential is to be used when accessing cloud data. This is the default.

ON

The CDA alternative credential function is enabled. The alternative cloud credential is to be used when accessing cloud data.

Here is a recommended use case for this keyword. For a SYSPLEX environment that is set up with both DR test systems and production systems and the same OAM cloud provider is shared across systems. One can set up an alternative set of cloud credential with read-only authorization level and program the CBROAMxx member to enable this CDA alternative credential function for the DR test systems. This can prevent the DR test systems accidentally deleting production data.

Note:

- If the above use case is intended, the display SETCLOUD command should be issued on the DR test system to verify the CDAALTCRED keyword value to be ON after the first OAM initialization.
- In the above use case, after the CDA alternative credential function is enabled for the DR test system, if the DR test system attempts to delete the production cloud object, the production cloud object will not be deleted but rather become orphaned just to the DR test system.

STORAGEGROUP (*sgname*)

...

The z/OS MVS System Messages, Vol 4 (CBD-DMO) (V2R5 version publication numbers:SA38-0671-50) to be updated as follows...

- Note:
1. Red text with strikethrough should be removed.
 2. Blue text is new text that should be added.
 3. Black text is existing text for reference.
 4. '...' means the content here doesn't contain any new changes and will not be shown.

Chapter 2 "CBR messages" -> Add the following new message CBR6525I.

CBR6525I *taskid* File Storage Delete Task has encountered *number-of-occurrence* occurrences of Cloud Provider Status Code 403 while processing cloud object deletes. Those object deletes are not processed.

Explanation

OAM address space *taskid* has the CDA alternative credential function enabled. A cloud provider status code 403 could be returned from the cloud provider if the alternative cloud credential does not have the authorization level to perform the cloud object delete. The File Storage Delete Task for OAM address space *taskid* encountered *number-of-occurrence* occurrences of cloud provider status code 403 while processing cloud object deletes. Those cloud objects are not deleted and become orphaned to OAM.

System action

None

System programmer response

Investigate to determine why the cloud objects were being deleted if the cloud credential used is not authorized to do so.

Source Object Access Method (OAM)

Routing Code 2, 4, 6

Descriptor Code 4

Chapter 2 “CBR messages” -> Make following changes to CBR6530I.

CBR6530I CDA Diagnostic Data:

Explanation

OAM-taskid cloud {write|read|delete} failure for cloud task task-name

Collection Name: collection-name

Object Name: object-name

Storage Group Name: storage-group-name Cloud ID: cloud-id

OAM Return Code: OAM-return-code OAM Reason Code: OAM-reason-code

Language Environment Preinitialization routine CEEPIPI failure

Function: {init_sub|call_sub|add_entry} Return code:PIPI-return-code]

Cloud Data Access Services Return Code: CDA-return-code

CDA-error-text]

Web Toolkit Return Code: toolkit-return-code Reason Code: toolkit-reason-code

Service ID: toolkit-service-ID

toolkit-diagnostic-message]

Cloud Provider Status Code: cloud provider-status-code

cloud-provider-status-message]

An error was encountered while processing an OAM request to read, write, or delete an object in the cloud level of the storage hierarchy from OAM task OAM-taskid. The OAM return code ~~CDA-return-code~~ OAM-return-code and the OAM Reason Code ~~OAM-reason-code~~ error-text ~~CDA-error-text (one or more lines up to 70 characters each) provided by CDA~~ are displayed.

For a Language Environment Preinitialization failure, the failing PIPI function name and PIPI-return-code are displayed.

For a CDA (Cloud Data Access) service failure, the return code CDA-return-code provided by CDA is displayed. The CDA error text CDA-error-text (one or more lines up to 70 characters each) is optionally displayed if provided by CDA. Otherwise, refer to z/OS DFSMSdfp Diagnosis for additional information about the CDA return code.

Additionally, if the CDA return code denotes that the error was a web toolkit failure or a bad response from the cloud provider, a second status area will be displayed after the CDA return code area.

For a web toolkit failure, the return code toolkit-return-code, the reason code toolkit-reason-code, the service ID toolkit-service-ID, and one or more lines (up to 70 characters each) of diagnostic messages toolkit-diagnostic-message will be shown.

If a bad HTTP response code is received from the cloud provider, the cloud provider status code cloud-provider-status-code and one or more lines (up to 70 characters each) of cloud provider status messages cloud-provider-status-message will be shown.

The language environment, web toolkit, and cloud provider areas are mutually exclusive. At most one will be shown.

See CDA diagnostic aids in z/OS DFSMSdfp Diagnosis.

System action

The OAM read, write, or delete request fails.

Operator response

Notify the system programmer.

System programmer response

Use the diagnostic information provided to determine the cause of the error and take corrective action to resolve the problem so that the request can be retried and complete successfully.

Programmer response

None.

Module

None.

Source

Object Access Method (OAM)

Routing Code

2,4,6

Descriptor Code

4