DC8/DC9 Recovery - Workstream 1 - DV/Servlet Filter Solution

Restore Filter

To support the client restoration process a servlet filter will be added to DV. The filter will allow:

- Unblock users that are currently corrupted and not able to upload
- Signal the client when an account is ready to be restored

The filter will be backed with a new table added to the DV schema in MySQL. The table will contain all the repositories identified as corrupted for an account and the status of each repository within the restoration process.

DV Restore Repository Table

Fields and values of the DV_RESTORE_REPOSITORY table

Field	Value Example
LCID	0000000000000
REPO_ID	1234
CLIENT	HANDSET TABLET DESKTOP
STATUS	BROKEN UNBLOCKED TO_FIX FIXED

How do we populate this table?

For each repo that is broken, there is going be an entry for each device the user has. I.e.

The user has handset, desktop and tablet but only VZMOBILE and DESKTOP repositories are broken:

LCID	REPO_ID	CLIENT	STATUS
1234567890	0001	HANDSET	BROKEN
1234567890	0001	DESKTOP	BROKEN
1234567890	0001	TABLET	BROKEN
1234567890	0002	HANDSET	BROKEN
1234567890	0002	DESKTOP	BROKEN

1234567890	0002	TABLET	BROKEN

To identify the type of client the user has mobile, desktop or tablet client we are going to iterate the restore repository table for the lcid and apply the following rules:

REPOSITORY NAME	Client value in DV_RESTORE_REPOSITORY
VZMOBILE	HANDSET
VZ_TABLET	TABLET
MyComputer or any other	DESKTOP

Note

Verizon will initially add the 3 rows: HANDSET, TABLET, DESKTOP, for each corrupted repository. If required they will clean up the table later removing the clients that are not required.

Filter Responses Codes

Changes API

POST - /dv/user/<lcid>/repository/<repository_name>/changes

STATUS	RESPONSE CODE
BROKEN	503
UNBLOCKED	200 412 - in case a 205 response code came from the client, we need to replace the 205 by a 412
TO_FIX	410 for new client - the client that have the restore logic 200/412: Same that UNBLOCKED for old client
FIXED	200/ 205 / 412 - regular response

Fullsync API

POST - /dv/user/<lcid>/repository/<repository_name>/fullsync

STATUS	RESPONSE CODE
FIXED	regular response - do not block
BROKEN, UNBLOCKED, TO_FIX	503

Client Restore Support

Client Platform

To identify the client platform we use the X-CLIENT-IDENTIFIER header

Client entry in RESTORE_REPOSITORY	Value in X-CLIENT-IDENTIFIER Header
HANDSET	HANDSET
TABLET	TABLET
DESKTOP	DESKTOP DESKTOPMAC

Client Version

To identify the client version the filter processes the user agent. The following clients will validated as supported:

Client OS	Android	iOS	Windows	OSX
Current Branch	17.1.23+	17.1.9+	16.4.9+ 16.5+	16.4.2+ 16.5+
Future branches	17+.2+	17+.2+	17+	17+

Restore Finalize Endpoint

A restore finalize end-point will be added to DV. This will be invoked by a client when it has finished the restore process. It needs the usual headers the client send including the authorisation token.

POST - /dv/api/restore/finalize/<lcid>/<repository_name>

I.e
http://vz-dvault.dev:9080/dv/api/restore/finalize/468b335d735a4964b8623d029302e066/VZMOBILE

Response Codes

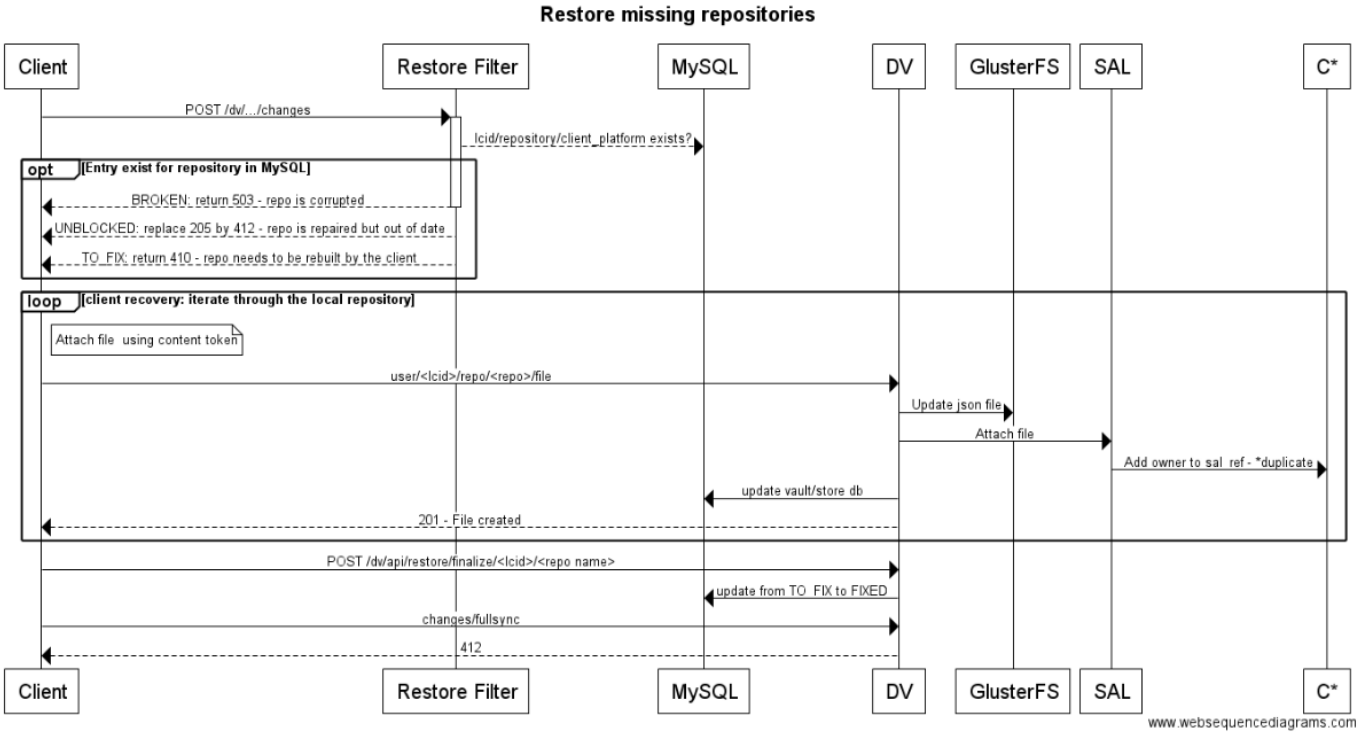
Response Code	Description
204	The update was processed successfully. The status on the vault restore table is updated from TO_FIX to FIXED
400	There was a problem updating the status in the restore table. I.e: combination lcid+platform+repository is not found in the DB or the status was not set to TO_FIX before we attempt to execute the finalize call.
404	The url is incorrect, the resource couldn't not be found

Unblock users

How to unblock an account: temporary repair and allow upload

1. Populate DV_Restore_Repository Table with corrupted repositories -> Status: BROKEN
2. Run the repo monitor tool to identify users that we want to unblock
3. Update DV_Restore_Repository for the sample selected for unblocked > Status: UNBLOCKED
4. Use the repo monitor to repair the accounts in the platform
    a. Create empty repo
    b. Update the mismatch with the old repository key
5. Client should be able to upload and execute changes api

Restore Users Flow



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    b. Update the mismatch with the old repository key
5. Client should be able to upload and execute changes api
6. Update the repositories we want to restore in DV_Restore_Repository -> STATUS: TO_FIX
7. Client starts the restore process
8. Client invoke the restore finalize endpoint on DV -> Status FIXED

Restore Status Entry State Diagram