Repoz apc commands

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SUMMARY

1 OBJECTIVE

This document describes the xpc processor commands

2 INTRODUCTION

The set of available commands for a processor depends on the processor and the current mode.

The samples below use the files into the directory: <repoz_installation_dir>/samples

Note about the sample directory:
To run the Repoz samples of this documentation from a Kikonf installation , replace the directory : <repoz_intallation_dir>/samples by: **<kikonf_intsallation_dir>/samples/repoz**.

3 GETTING HELP

The following help commands may be type in any mode.

help shows this help: a long help for the commands available for the mounted processor for the currrent mode.

h (or help) <command> shows help for this commands available for the mounted processor for the currrent mode.

h show a short summary of the commands available for the mounted processor for the currrent mode.

H shows a short summary of the globally available commands (for all mode, all processor).

HELP shows a long help for the globally available commands.

H (or HELP) <command> shows help for this globally available commands.

4 THE APC PROCESSOR

The xpc processor is used to work with properties files (aka attributes) files.
An apc processor is mounted using the apc command like this :

:> xpc -F <repoz_intallation_dir>/samples/test.xml

e.g.:
:>apc -F <repoz_intallation_dir>samples/**test.attrs -D** <repoz_intallation_dir>samples/**test.attrs.desc -A -C**
New processor with alias:test, created and mounted.

5 THE APATH MODE

The apath implementation supports one command: ls

To swich to the apath mode :

- Switch to the apath mode
  e.g. (from the python : ? mode):
  ?test:/>: *(or type "mode xpath")*
  :test:/>

- From any mode Create and Mount an xpc processors
  e.g.:
  :test:/>**apc -F** <repoz_intallation_dir>samples/**test.attrs -D** <repoz_intallation_dir>samples/**test.attrs.desc -A -C -a** *mypc*
  New processor with alias:mypc, created. (use mount mypc, to mount it)
  :test:/>

- Mount your new processor (if not already mounted)
  e.g.:
  :test:/:mount mypc
  :mypc:/>

5.1 THE LIST COMMAND

The ls command list one or more Attributes.

Syntax:

ls <attr> [<attr>]

e.g.:
:>apc -F <repoz_installation_dir>samples/**test.attrs -D**
<repoz_installation_dir>samples/t**est.attrs.desc -A -C**
New processor with alias:test, created and mounted.

:test:/>ls field1 field3
field1:value1 field3:{ccc:caa,ddd:daa}
:test:/>

The ls command returned values are stored into the Repoz reserved Variable: ro.

:test:/>var ro
{'field3': {'ccc': 'caa', 'ddd': 'daa'}, 'field1': 'value1'}
:test:/>

6 THE AQL MODE

The aql implementation supports 3 commands: **select, update, delete**

To swich to the aql mode :

- Switch to the apath mode
  e.g. (from the python : ? mode):
  ?test:/>% *(or type "mode ql")*
  %test:/>

- From any mode Create and Mount an apc processors
  e.g.:
  %test:/>**apc -F** <repoz_intallation_dir>samples/**test.attrs -D** <repoz_intallation_dir>samples/**test.attrs.desc -A -C -a** *mypc*
  New processor with alias:mypc, created. (use mount mypc, to mount it)
  %test:/>

- Mount your new processor (if not already mounted)
  e.g.:
  %test:/:mount mypc
  %mypc:/>

6.1 THE SELECT OPERATION

The select operation, selects one or more Attributes according an optional where clause.

Syntax:

select O_WHAT at F_TAGS if F_ATTRS

- Simple select

e.g.:
:>apc -F <repoz_installation_dir>**samples/test.attrs -D**
<repoz_installation_dir>**samples/test.attrs.desc -A -C**
New processor with alias:test, created and mounted.
:test:/>ls
field1:value1 field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3:
{ccc:caa,ddd:daa}
:test:/>%
%test:/>select field1,field3

field1	*field3*
value1	*{ccc:caa,ddd:daa}*

- Select with a where clause

e.g.:
%test:/>select field1,field3 where field1=value1

field1	*field3*
value1	*{ccc:caa,ddd:daa}*

%test:/>select field1,field3 where field1<>value1

field1	*field3*

- Select with an imbricated where clause

e.g.:
%test:/>select field1,field3 where field1=value1 and ((field1 *in [value2,value1] or field1=value1) and field1=value1)

field1	*field3*
value1	*{ccc:caa,ddd:daa}*

%test:/>select field1,field3 where field1=value1 and ((field1 *in [value2,value1] or field1=value1) and field1<>value1)

field1	*field3*

Note: There is no limit for parenthesis imbrication.

- Select using complex type and a Repoz Variable

e.g. 1:
:>apc -F <repoz_installation_dir>samples/test.attrs -D
<repoz_installation_dir>samples/test.attrs.desc -A -C
New processor with alias:test, created and mounted.
:test:/>ls
field1:value1 field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3: {ccc:caa,ddd:daa}

%test:/>%
%test:/>select * where field3={ccc:caa,ddd:daa}

field1	*field2*	*field3*
value1	*[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}]*	*{ccc:caa,ddd:daa}*

e.g. 2:
%test:/>var v3={ccc:caa,ddd:daa}
%test:/>var v3
{'ccc': 'caa', 'ddd': 'daa'}

%test:/>select * where field3=$v3
Var replacement: v3 to:{ccc:caa,ddd:daa}
Var replacement: new line is:select * where field3={ccc:caa,ddd:daa}

field1	field2	field3
value1	[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}]	{ccc:caa,ddd:daa}

6.2 THE UPDATE OPERATION

The Update operation, updates a set of Attributes with a set of pair Attribute/Values.

Syntax:

update set O_SET

Simple update

e.g.:
:>apc -F <repoz_installation_dir>samples/test.attrs -D <repoz_installation_dir>samples/test.attrs.desc -A -C
New processor with alias:test, created and mounted.
:test:/>ls
field1:value1 field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3: {ccc:caa,ddd:daa}

:test:/>%
%test:/>update set field1=aaa
Updating attr:field1

%test:/>:
:test:/>ls
field1:aaa field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3: {ccc:caa,ddd:daa}
:test:/>%

- Update with by complexe type

e.g.:
%test:/>update set field3={ccc:c,ddd:d}
Updating attr:field3

%test:/>:
:test:/>ls
field1:aaa field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3:{ccc:c,ddd:d}

6.3 THE DELETE OPERATION

The Delete operation, deletes one or more Attribute(s)

Syntax:

delete F_ATTRS

e.g.:
:>apc -F <repoz_installation_dir>samples/test.attrs -D <repoz_installation_dir>samples/test.attrs.desc -A -C
New processor with alias:test, created and mounted.

:test:/>ls
field1:value1 field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}] field3: {ccc:caa,ddd:daa}
:test:/>%
%test:/>delete field1, field3
%test:/>:
:test:/>ls
field2:[{AAA:ccccA2,BBB:ccccB2},{AAA:bbbbA1,BBB:bbbbB1}]