z/OS 3.1 IBM Education Assistant

Solution Name: Sysplex CFRM policy editor REST API support

Solution Element(s): z/OSMF Sysplex Management

July 2023

Agenda

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Trademarks

- See url http://www.ibm.com/legal/copytrade.shtml for a list of trademarks.
- Additional Trademarks:
  - None.

Objectives

- Explain new function for Sysplex CFRM policy editor REST API support.

Overview

- Who (Audience)
  - z/OS system administrator

- What (Solution)

  Stateless REST API for below administrative CFRM policy operations:
  - List z/OS defined administrative CFRM polices - return all the policy information such as policy name, updated date, but do not include cf/structure information.
  - Rename an existing policy with a new name.
  - Delete one or more policies.
  - Copy an existing policy to a new policy.
  - New one or more policies – including policy name, cf data and structure data.
  - List the specified policy’s properties - list all the cf data and structure data in the policy.
  - Modify one specified policy - modify the cf data and structure data in one policy.
  - Activate one specified policy.

- Wow (Benefit / Value, Need Addressed)
  - z/OS system administrator can operate Sysplex CFRM policy data by REST API so that Sysplex CFRM policy operations can be easily integrated into other solutions like Workflow, Ansible automation, etc.

Usage & Invocation

- List z/OS defined administrative CFRM policies:

Get /zosmf/sysplex/rest/v1/policies/cfrm

- List one specified CFRM police's all cf and structure properties:

Get /zosmf/sysplex/rest/v1/policies/cfrm/<*pol-name*>

- Rename an existing policy with a new name

Put /zosmf/sysplex/rest/v1/policies/cfrm/name/<*old-name*>

- Delete policy/policies

Delete /zosmf/sysplex/rest/v1/policies/cfrm?name=*pol-name1[&name=pol-name2...&name=pol-namen]*

- Activate one specified policy

Put /zosmf/sysplex/rest/v1/policies/cfrm/activation/<*pol-name*>

Usage & Invocation

- Modify one policy's properties

Put zosmf/sysplex/rest/v1/policies/cfrm/<*pol-name*>


```
{
  "policy":[
    {
      "name":"CTTEOLD",
      "_defined":"02/25/2020 12:04:56.187608",
      "cf":[
        {
          "name":"TESTCF",
          "type":"00CF01",
          "mfg":"XXX",
          "plant":"XX",
          "sequence":"XXXXXXXXXXX",
          "partition":"00",
          "cpcid":"00",
          "dumpspace": 20000000000

        },
        {
          "name":"LF01",
          "type":"00ND01",
          "mfg":"XXX",
          "plant":"XX",
          "sequence":"XXXXXXXXXXX",
          "partition":"00",
          "cpcid":"00"

        }
      ],
      "structure":[
        {
          "name":"LF01",
          "subnotifydelay":20,
          "size":2222222222,
          "recprty":3,
          "fullthreshold":50,
          "preflist":[
            "LF01",
            "TESTCF"
          ]
        }
      ]
    }
  ]
}
```

Usage & Invocation

- Add multiple policies

Post /zosmf/sysplex/rest/v1/policies/cfrm


```
{
  "policy": [
    {
      "name": "CTTENEH",
      "cf": [
        {
          "dumpspace": 256,
          "sequence": "XXXXXXXXXXXX",
          "partition": "00",
          "cpcid": "00",
          "plant": "XX",
          "name": "TESTCF",
          "type": "00CF01",
          "mfg": "XXX"
        },
        ...
      ],
      "structure": [
        {
          "preflist": [
            "LF01",
            "TESTCF"
          ],
          "size": 1000,
          "name": "LT02"
        }
      ]
    },
    {
      "name": "CTTENEW",
        "cf": [
          {
            "dumpspace": 256,
            "sequence": "XXXXXXXXXXXX",
            "partition": "00",
            "cpcid": "00",
            "plant": "XX",
            "name": "TESTCF",
            "type": "00CF01",
            "mfg": "XXX"
          },

        ],
        "structure": [
          {
            "preflist": [
              "LF01",
              "TESTCF"
            ],
            "size": 1000,
            "name": "LT02"
          }
        ]
    }
  ]
}
```

Usage & Invocation

- Add a new policy by copying one existing policy

Post /zosmf/sysplex/rest/v1/policies/cfrm/<*existing-pol-name*>

```
{
  “name": “CTTEST2”
}
```

Interactions & Dependencies

- Software Dependencies
  - z/OS Sysplex
- Hardware Dependencies
  - NONE
- Exploiters
  - NONE

Upgrade & Coexistence Considerations

- To exploit this solution, all systems in the Plex must be at the new z/OS level:
- No
- List any toleration/coexistence APARs/PTFs.
- N/A
- List anything that doesn't work the same anymore.
- N/A
- Upgrade involves only those actions required to make the new system behave as the old one did.
- N/A
- Coexistence applies to lower level systems which coexist (share resources) with latest z/OS systems.
- N/A

Installation & Configuration

- List anything that a client needs to be aware of during installation and include **examples** where appropriate - clients appreciate these:
  - Are any APARs or PTFs needed for enablement? No additional APARs are needed for V3.1.
  - What jobs need to be run? N/A
  - What hardware configuration is required? N/A
  - What PARMLIB statements or members are needed? N/A
  - Are any other system programmer procedures required? N/A
  - Are there any planning considerations? N/A
  - Are any special web deliverables needed? N/A
  - Does installation change any system defaults? N/A

Summary

- Sysplex CFRM policy editor REST API support has been explained.

Appendix

- Please refer to z/OSMF Configuration Guide and z/OSMF Programming Guide for more details about Sysplex CFRM policy editor REST API.