

z/OS V2.5 IBM Education Assistant

Solution Name: Health Checks

Solution Element(s): RMF



Agenda

- Trademarks
- Objectives
- Overview
- Usage & Invocation
- Interactions & Dependencies
- Upgrade & Coexistence Considerations
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Trademarks

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

Objectives

- Explain purpose/usage of RMF update
 - Introduce the new Health Check for AT-TLS configuration
 - Introduce the new Health Check for Deprecated DDS Options
 - Introduce the required Security Policies

Overview

- Who (Audience)
 - z/OS System Administrators
- What (Solution)
 - Health Checks to ensure proper configuration of RMF
- Wow (Benefit / Value, Need Addressed)
 - Ensure RMF is configured properly

Usage & Invocation

- AT-TLS Health Check runs once on DDS Start
 - Matches on LocalPortRange, Jobname, and/or Userid of GPMSEVERE STC
 - AT-TLS Policy required for Communication Server Policy Agent

```
# RMF Distributed Data Server Rule
TTLRule                                DDSServerRule
{
  LocalPortRange                        8803
  Jobname                               GPMSEVERE
  Userid                                GPMSEVERE
  Direction                             Inbound
  Priority                               1
  TTLGroupActionRef                     DDSServerGRP
  TTLEnvironmentActionRef                DDSServerENV
}
```

```
CHECK(IBM RMF, RMF_DDS_ATTLS)
SYSPLEX:  RSPLEXOM  SYSTEM: RS94
START TIME: 02/26/2021 03:45:51.298606
CHECK DATE: 20201014  CHECK SEVERITY: LOW

GPMH1001I GPMSEVERE AT-TLS is required

END TIME: 02/26/2021 03:45:51.411173  STATUS: SUCCESSFUL
```

Usage & Invocation

- Deprecated DDS Options Health Check runs once on DDS Start
 - Deprecated Ports for legacy RMF Performance Monitor protocol:
 - MAXSESSIONS_INET, SESSION_PORT, and TIMEOUT
 - Deprecated Tivoli® DM/390 communication:
 - DM_PORT and DM_ACCEPTHOST

```
TOP OF DATA
CHECK(IBMRFM,RMF_DDS_OPTS)
SYSPLEX:  RSPLEXOM  SYSTEM: RS94
START TIME: 02/26/2021 03:37:45.977684
CHECK DATE: 20201104  CHECK SEVERITY: LOW

* Low Severity Exception *

GPMH1005E GPMSEVE deprecated options were specified: DM_ACCEPTHOST

Check Reason: Check DDS configuration

END TIME: 02/26/2021 03:37:45.977877  STATUS: EXCEPTION-LOW
***** BOTTOM OF DATA *****
```

Usage & Invocation

- RACF Security Policy required to allow DDS to Add Health Checks
 - Can be <system> specific or global *

```
RDEFINE XFACILIT HZS.<system|*>.IBMRMF.*.ADD UACC(NONE)
PERMIT HZS.<system|*>.IBMRMF.*.ADD CLASS(XFACILIT) ID(GPMSEVE) ACCESS(CONTROL)
SETROPTS RACLIST(XFACILIT) REFRESH
```

- RACF Security Policy required to allow DDS to read the Policy Agent configuration
 - Can be <system> specific or global *
 - Can be <tcpip stack> specific or global *

```
RDEFINE SERVAUTH EZB.PAGENT.<system|*>.<tcpip stack|*>.TTLS UACC(NONE)
PERMIT EZB.PAGENT.<system|*>.<tcpip stack|*>.TTLS CLASS(SERVAUTH) ID(GPMSEVE) ACCESS(READ)
SETROPTS RACLIST(SERVAUTH) REFRESH
```


Interactions & Dependencies

- Software Dependencies
 - None
- Hardware Dependencies
 - None
- Exploiters
 - None

Upgrade & Coexistence Considerations

- None

Installation & Configuration

- This support is included in the GA shipment of the z/OS V2.5 RMF (HRM77D0) deliverable.

Summary

- Introduced new RMF Checks for z/OS Health Checker
 - AT-TLS Policy Configuration
 - Deprecated DDS Options
- Described Security Policies required for Health Checks

Appendix

- RMF - <https://github.com/IBM/IBM-Z-zOS/tree/master/zOS-RMF>
 - Contains Product information, presentations, etc.
- Documentation and news
 - RMF Report Analysis, SC34-2665
 - RMF User's Guide, SC34-2664
 - RMF Programmer's Guide, SC34-2667
 - Latest version of PDF files can be downloaded from:
<http://www.ibm.com/systems/z/os/zos/bkserv/>