Z/OS V1R13

BCP RRS: Automatic shutdown

Overview

- Problem Statement / Need Addressed
  - RRS needs a clear, automatable shutdown procedure
  -     in the event of a catastrophic error
- Solution
  - Automatic shutdown option will be added to operator message
- Benefit / Value
  - Informs the operator that a shutdown is necessary
  -     and provides a straightforward way to perform it
  - Gives the operator a chance to terminate Resource Managers
- Using functionality from this line item, you can:
  - Easily terminate RRS cleanly after a severe error
  - Enhance automation for this error case
- Value:
  - Better recovery from RRS faults
  - Decreased downtime

Usage and invocation

- Changed external output:
  - Message ATR247E now allows a reply of 'SHUTDOWN'
- Manual shutdown still permissible
- Example:
  - SY1 ATR246I RRS HAS DETECTED A *SHE* CONTROL BLOCK ERROR - UNEXPECTED ERROR DUMP REQUESTED
    *SY1 *23 ATR247E RRS HAS DETECTED A SEVERE ERROR - TERMINATE RMS AND
    *OPTIONALLY REPLY SHUTDOWN TO SHUTDOWN RRS.
  - Similar for other control block errors;
        italicized portion replaced with control block name.

Usage and invocation

- Responses:
  - SHUTDOWN
    - RRS attempts clean shutdown
    - If clean shutdown doesn't occur within 30 seconds, forced shutdown attempted.
  - No response:
    - RRS keeps running, with the terminated thread halted.
    - Can be shut down by other means, e.g. "SETRRS SHUTDOWN".
    - This was the only option on prior RRS releases.

Interactions and dependencies

- Software Dependencies
  - None
- Hardware Dependencies
  - None
- Exploiters
  - Existing customer automation
  - AUTOR (default: SHUTDOWN)

Migration and coexistence considerations

- Prior version of this WTOR did not have the SHUTDOWN option; existing automation based on that prior version will function as it did previously, if the automation looks at the message number (ATR247E) rather than the exact text.

Installation

- None

Appendix - References

- SA22-7616 – z/OS V1R13.0 MVS Programming: Resource Recovery
- SA22-7627 – z/OS V1R13.0 MVS System Commands
- SA22-7633 – z/OS V1R13.0 MVS System Messages, Vol 3 (ASB-BPX)